Validation documentation
APIs & excipients, liquid/semi-solid (with analysis certificate)

HiperScan GmbH

November 21, 2022

Validation documentation of the chemometrics database of the near-infrared spectrometer *Apo-Ident*.
Report number: **57-2.4-2022-05**
info@hiperscan.com, www.hiperscan.com

Contents

Introduction 7
Context of this document . . . 7
Criteria for the inclusion of substances . . . 8
Validation concept . . . 9
Model creation procedure and validation runs . . . 9
Particularities of individual substance classes . . . 12
Significance of testing with *Apo-Ident* . . . 13
Conclusion . . . 13

Explanation of terminology 14

Summary 19
Validation samples . . . 19
Validation results . . . 19

Validation reports 21
(s)-Lactic acid . . . 21
1,3-butanediol . . . 33
2-ethylhexyl laurate . . . 37
Acetic acid 30% . . . 49
Acetic acid 99% . . . 55
Acetone . . . 63
Acorus oil . . . 81
all-rac-alpha-tocopheryl acetate . . . 87
Angelica root oil . . . 97
Anise oil / Star aniseed oil . . . 103
Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR) . . . 111
Base cream DAC . . . 121
Basis Cordes® RK . . . 249
Benzalkonium chloride solution 50% . . . 269
Benzyl alcohol . . . 277
Benzyl benzoate . . . 283
Benzyl nicotinate . . . 289
Bergamot oil . . . 295
Bitter almond oil . . . 301
Bitter-fennel fruit oil . . . 305
Cajeput (essentiel oil) . . . 311
Camphor oil 20% . . . 317
Camphor ointment . . . 323
Camphor spirit . . . 329
Caraway oil . . . 337
Castor oil, virgin / Sorbitan- and glycerol monooleate . . . 345
Cedar leaf oil . . . 371
Cedar wood oil . . . 375
Cetiol® HE . . . 381
Cineole . . . 387
Cinnamon bark oil, artificial . . . 391
Cinnamon bark oil, Ceylon . . . 395
Citronella oil . . . 401
Citrus oils . . . 407
Clotrimazole 10% Cordes® RK . . . 419
Clove oil . . . 425
Coal tar spirit SR . . . 435
Collodion 4% . . . 443
Cooling cream / Cooling cream with rose oil . . . 449
Cordes® base solution . . . 509

Coriander oil . . . 513
Dexpanthenol . . . 519
Dexpanthenol concentrate 50% . . . 547
Dextrorotary lactic acid 20% . . . 559
Dimethyl sulfoxide . . . 565
Dimeticon 100 / 350 / 1000 . . . 581
Dwarf pine oil . . . 589
Ethanol 90% . . . 597
Ethanol 96% . . . 613
Ether . . . 643
Ethyl acetate . . . 653
Eucalyptus oil / Rosmary oil . . . 659
Eugenol . . . 677
Gel Cordes® . . . 683
Geranium oil, genuine . . . 691
Glucose syrup . . . 697
Glycerine ointment (conserved) . . . 703
Glycerol . . . 709
Glycerol 85% . . . 719
Glycolic acid 70% . . . 765
Guaiazulene 25%, water-soluble . . . 771
Honeys . . . 777
Hydrophilic base emulsion (NRF p.25) . . . 783
Hydrophilic ointments . . . 801
Hydroxyethyl salicylate . . . 997
Isopropyl alcohol . . . 1003
Isopropyl alcohol 70% . . . 1059
Isopropyl myristate . . . 1111
Isopropyl palmitate . . . 1121
Juniper oil . . . 1131
Lanette® ointment (conserved) . . . 1137
Lanolin DAB . . . 1147
Lavender oil / Clary sage oil . . . 1173
Liniment ointments . . . 1191
Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40 . . . 1235
Macrogol 8 stereate type I . . . 1283
Macrogol ointment . . . 1289
Macrogol-2-laurylether . . . 1297
Macrogolglycerol ricinoleate . . . 1303
Macrogols 300 . . . 1309
Macrogols 400 . . . 1315
Mandarin oil . . . 1329
Matricaria oil, rich in (-)-alpha-bisabolol . . . 1333
Melissa oil . . . 1339
Methyl salicylate . . . 1345
Metronidazole 25% in white petrolatum . . . 1351
Mint oil / Peppermint oil . . . 1357
Myrtle oil . . . 1371
Non-ionic hydrophil ointment . . . 1377
Octyldodecanol . . . 1391
Oleic acid . . . 1409
Oregano oil . . . 1413
Paraffin classification . . . 1419
Pasta Cordes® . . . 1603
Permethrin 25% solution . . . 1615
Petroleum ether DAB . . . 1623
Petroleum oil, not for internal use . . . 1651

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Phenoxyethanol . . . 1657
Phytomenadione . . . 1661
Pine silvestris oil . . . 1665
Pine tar . . . 1671
Polyhexanide solution 20% . . . 1675
Polysorbates / Macrogol 20 glycerol monostearate type II . . . 1685
Potash soap DAC . . . 1703
Potash soap Ph.Helv. . . . 1711
Propylene glycol . . . 1715
Psorisol base cream Audor® . . . 1757
Rose oil (genuine / artificial) . . . 1763
Sage oil . . . 1771
Salicylic acid 50% (paraffin) . . . 1777
Salicylic acid concentrate 10%, white paraffin basis . . . 1795
Salicylic acid concentrate 5%, white paraffin basis . . . 1799
Sodium laureth sulfate solution 27% . . . 1803
Sodium-(s)-lactate solution 50% . . . 1809
Soft ointment . . . 1821
Softisan® 378 / Wool fat . . . 1843
Softisan® 649 . . . 1883
Sorbitan trioleate . . . 1889
Spearmint oil . . . 1897
Spirit of ether . . . 1903
Spirit soap . . . 1907
Spruce needle oil . . . 1913
Squalane . . . 1919
Syrups . . . 1925
Tea tree oil . . . 1953
Thyme oil, thymol type . . . 1959
Triglycerides . . . 1967
Triglycerides, medium-chain . . . 2119
Triglycerol diisostearate . . . 2165
Verbena oil, nature-identical . . . 2171
Viscous base solution (NRF p. 20) . . . 2177
Water and aqueous solutions . . . 2197
Wines . . . 2277
Wood oils . . . 2287
Wool alcohols creams . . . 2295
Wormwood oil . . . 2307
α-Tocopherol . . . 2313

Appendix **2321**
Additional calibration samples (*Type A*) . . . 2321
Additional validation samples (*Type B*) . . . 2323
Additional validation samples (*Type C*) . . . 2329
Requirements of validation . . . 2405
Conformity of *Apo-Ident* with the *European pharmacopeia* . . . 2406
Addition to the second-stage models . . . 2407

References **2409**

Index **2411**

Introduction

The unequivocal proof of the identity of pharmaceutical raw materials based on a monograph or traditional alternative methods is work-intense, time-intense and economically often no longer makes sense. Near-infrared spectroscopy (NIR) provides a new means here. It enables relatively easy, fast and nonetheless safe identity testing via the preparation and evaluation of spectra.

The analysis system *Apo-Ident* was developed specially for pharmacy use. Pharmacists have the duty to check the identity of all raw materials for extemporaneous products in their pharmacies. This normally takes place based on the monographs for the respective substances in the European Pharmacopoeia. But also NIR spectroscopy is described in the European Pharmacopoeia as an identification method which, as opposed to the methods incorporated in the respective monographs, is approved for testing [1] (quotation translated)

> *with the prerequisite that the same results ("namely the determination of the identity" [2]), (*quotation translated*) are achieved as with the described methods and instruments.*

The *Apo-Ident* analysis system serves to identify raw materials for prescriptions in the defined manner according to *ApBetrO* [Pharmacies Rules and Regulations] §§ 6 and 11 at pharmacies (NIR spectroscopy as an alternative testing method). *Apo-Ident* consists of three components:

- An *NIR spectrometer*, which records the spectra of non-preprocessed raw materials in a measuring glass in diffuse reflection or transflection.
- The *QuickStep* spectroscopy software controls the instrument and records the spectra and user inputs via a pharmacy-specific software plug-in. It also generates the test protocol for documentation of the testing and storage of the printout to be signed in the pharmacy.
- The software module *IdentModule* incorporates *reference databases*. The spectra from the *QuickStep* software are presented to it for evaluation.

NIR spectroscopy is a very powerful analytical method. It is also able to establish the identity of several chemical compounds and mixes in as far as an appropriate database (technically correct: a chemometric model) was created. Identity testing with *Apo-Ident* is a very safe, very fast and easy to operate analytical method for testing a large number of raw materials.

Context of this document

The suitability of the instrument, method and database is proven as follows:

- *NIR spectroscopy as a method for identity testing:* The *Ph. Eur.* [3] describes NIR spectroscopy in *Section 2.2.40* as an analytical method which is also suitable for the identification of raw materials. Therefore, validation of the method as such is not necessary.
- *Performance of the instrument:* The *Ph. Eur.* [3] furthermore describes the apparatus and the testing of its performance in *Section 2.2.40*. The document *Erfüllung von 2.2.40 Ph. Eur. durch Apo-Ident* [4] compares the implementation by *Apo-Ident* with this monograph in order to prove that *Apo-Ident* meets the specifications of the Pharmacopoeia. Each individual instrument delivered to a pharmacy is qualified in accordance with the tests described in *"Control of Instrument Performance"*. In this test, the unit consisting of analysis instrument hardware and the *QuickStep* spectroscopy software is assessed. The result is documented in a test protocol which is kept at the pharmacy.
- *Validation of the database* is documented separately for each substance class. The report at hand documents the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*.

The *Arbeitsgemeinschaft der Pharmazieräte Deutschlands (APD)* [Working Group of German Pharmacy Inspectors] has clarified the following in its resolution dated October 16, 2013 ([5], quotation translated):

> *NIR is a testing method incorporated in the Pharmacopoeia. The testing quality depends on the quality of the database stored. The* APD *views the use of NIR instruments in case of ensured validation of the databases used in conjunction with it as one of several options for identity testing.*

The *APD* defined more precisely ([6], quotation translated) on October 1, 2014:

> *The use of near-infrared is a recognised testing method according to* Ph. Eur. 8. *For the use of NIR instruments in pharmacies for testing the identity of raw materials, sufficient and verifiable validation of the instrument used is required. The quality of the database stored by the instrument manufacturer is decisive for quality. Batch-specific differences with the same original substances must be taken into account if present.*

So NIR is basically suitable. The validity of the reference database is proven with the existing validation documentation.

Criteria for the inclusion of substances

This validation documentation describes the results of the validation of the reference database for the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Validation documentation is created for each published version of the reference database for all substance classes incorporated.

The reference database is incorporated in the software module *IdentModule*. During identification testing with *Apo-Ident*, spectra which are used for evaluation purposes are presented to it by the *QuickStep* software. In the same manner, the *IdentModule* is presented all validation spectra successively during the validation runs for evaluation purposes. The *IdentModule* responds respectively (without taking the initial assumption into account) with the identified substance or rejects it as unknown. The correctness of this response is checked for each possible initial assumption and counted.

The results are summarised for each substance and reproduced in this document. The core statement of this validation report is that the following criteria must be fulfilled for each database entry, so that *Apo-Ident* offers verification of identity by means of NIR for the relevant substance/substance group:

- The database is exclusively generated from spectra which have been recorded by *HiperScan GmbH* on traceable samples in pharmaceutical quality.
  - The samples are procured via typical pharmacy sources (*DAC III.2.: Bezugsquellennachweis für Rezepturbestandteile [reference source for prescription components]* [7]).
  - A valid manufacturer's certificate exists (content, purity and identity of the batch).
  - The identity was confirmed by a certified test laboratory or *HiperScan GmbH*.
- Each version of the reference database (every update) is validated in-full.
  - Calibration spectra (*Type A*), other spectra recorded under the control of *HiperScan GmbH* (*Type B*), and spectra from the field (*Type C*) are presented to the *IdentModule* for evaluation in three separately evaluated validation runs.
  - Here, no single *false positive* result may arise.
  - Here, the various substance classes are also tested for reciprocal rejection, where this is objectively justified (see *Summary* section).
- In the validation with spectra recorded under the control of *HiperScan GmbH*, spectra of at least one independent sample must be considered, i.e. spectra from a batch whose spectra have not been used for the generation of the database. In addition, the set of *Type A* and *Type B* spectra must originate from at least three different batches.
- Spectra of additional substances may be used for the generation of the database even though they will not be offered for identification by this database. The purpose is the reliable distinction from these substances.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Any positive result of *Apo-Ident* confirms the identity of the substance/substance group and distinguishes it from all other substances of the database. In the case of substance groups, the result is ambiguous: Distinction from all substances not belonging to the group is proven. The substance is identified as a member of this group. However, within the substance group, it is not possible to reliably classify which substance has been tested.

- The criteria for clear identifiability are a specificity of 100 % (true negative rate) and a minimum distance in the distance matrix. See 2. d) under Model creation procedure and validation runs.

Validation concept

Chemometrics is a statistical technique for the extraction of relevant chemical information from spectra. In mathematics, this method is described as *multivariate data analysis*. Chemometrics proceeds here as follows:

1. Collection of spectra for the *calibration sample*. The results (identities) of the calibration sample must be known. The calibration samples must be representative for the samples which are to be evaluated later. Therefore, they must take the various possible (physical) compositions into account. (Therefore, sourcing calibration samples for NIR from the specialist trade is superior to the use of CRS reference substances.)

2. The first mathematical step is *calibration*. Here, the chemometric model is calculated from the *calibration sample spectra* (reference spectra) and limits as well as some parameters are stipulated. The chemometric model is used later to calculate the analysis result (*prediction*).

3. Collection of further spectra for the *validation sample* which should be independent of the *calibration sample*. The results (identities) of the *validation sample* must also be known. The textbook suggests a random sample with a normal scope of 25 % to 50 % of the *calibration sample* [8].

4. The second technical data step is *validation*. Here, the chemometric model created is evaluated based on the spectra of the *validation samples*. As validation parameters for the identification, the *Ph. Eur. Section 2.2.40* [3] specifies the specificity and robustness.

The validation step according to the textbook has the target of estimating the performance capability of the model created based on a random sample. In order to achieve the best possible precision, attention is paid to the calibration sample. In the field of pharmaceuticals, the safety of the method has priority. In order to be able to *validate* the model within the regulatory scope, the validation step must include probative force. For this purpose, the validation sample must be *representative and complete* in order to enable the testing of all cases.

A *sufficient number of batches* must be secured for validation because validation finally proves whether the number of batches in calibration suffices.

Each substance is validated individually. The validation results are documented per substance in this document. Moreover, the documents show how many and which batches have been used for creating the model or model validation.

At least one certificate is taken in for each substance from an accredited test laboratory for the independent testing of identity of the sample. The identification number of the corresponding test certificate is listed in the report, enabling traceability of a substance tested according to the monographs in the Pharmacopoeia.

Model creation procedure and validation runs

The safety of the chemometric models is guaranteed by several measures during model creation, of which the validation step is the final one. Normally, the procedure is as follows. It is in particular valid for the active pharmaceutical ingredients (APIs) *solid API excipients*, *liquid/semi-solid API excipients (with a test certificate)*, *narcotics - solid medicinal substances* and *drugs*. If, for individual substance classes, variations are required, they are depicted in the section *Particularities of individual substance classes*.

1. Collecting the reference spectra (calibration sample)

a) Procurement of the samples from the same sources from which pharmacies source their raw material for compounding (Caelo, Fagron, Euro-OTC, . . . , see also *DAC III.2. Bezugsquellennachweis für Rezepturbestandteile* [Sources of supply for compounding] [7]).

b) Testing the suitability according to *ApBetrO* [Pharmacies Rules and Regulations] §§ 6, 11, that is to say the availability of a valid manufacturer certificates via identity, purity and contents of the batch.

c) Recording standard 40 spectra of the sample in different positions, as a standard on four instruments. Here, handling and presentation of the samples as later in the pharmacy.

d) Visual checking for anomalies in the spectra. In case of indications of measurement errors, measurement must be repeated. If a signature is missing in the spectrum, the substance may be excluded from the start as not promising (the spectra are nonetheless entered in the database validation as independent *Type B* spectra).

e) Testing identity. For each substance, a certificate of correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the respective following substance page of this validation documentation the *Mahalanobis distance* to this reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance. Such samples underline the statistical spread of the original reference substance, but cannot add any new characteristics of the substance.

   HiperScan GmbH cooperates with some suppliers as follows: the raw materials supplier takes a sufficiently large sample in his incoming goods area so that part of it can be used for recording the NIR spectra. The remainder of the sample goes to analytics for market approval. The manufacturer's batch certificate emerges from these identity, contents and purity tests, which consequently also prove the correct identity of the NIR reference sample. Therefore, the NIR spectra are suitable for structuring the database *(Type A)* and can also optionally be used for validation *(Type B)*. The samples which this applies to are marked in the validation report with a footnote.

f) If the identity of the new sample is proven, it is declared as a reference sample and the spectra are approved for structuring the database.

2. Generating the chemometric models (calibration)

a) Determination of the transformation matrix from the reference spectra using variance maximisation [8, 9]. (*All* reference spectra are always included, even if only a few spectra are added for an update.) All reference spectra receive the same data pre-treatment, which is also later applied to all measurement spectra in the field (in the pharmacies).

b) Checking that the number of principal components used is still sufficient.

c) Calculating the limits for each substance from the spread of the reference spectra. The calculation regulation is identical for each substance in a substance class.

d) Überprüfen der Abstände zwischen den Grenzen der trennbaren Substanzen: Die Distanzmatrix enthält die *Mahalanobis-Abstände* von jeder Substanz zu jeder anderen. Die Werte hin und zurück sind jeweils unterschiedlich, weil die Streuung der Ausgangssubstanz eingeht. Ist eine Distanz kleiner als der Mindestabstand, so gelten die Substanzen als nicht sicher trennbar. Der Mindestabstand ist auf 9 festgelegt. Der Entwickler des Modells darf einen größeren Mindestabstand festlegen (ein Wert für das gesamte *chemometrische Modell*), um die Trennschärfe zu erhöhen.

e) Überprüfung des Modells anhand der Referenzspektren. Es sind keine *falsch-positiven* Ergebnisse erlaubt.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

f) Wird eines der Kriterien verletzt (d) *Unterschrittener Mindestabstand zwischen zwei Substanzen* oder (e) *Eine Substanz wird als eine andere identifiziert*, entscheidet der Entwickler der Datenbank, welche der folgenden Optionen er anwendet:

- Er nimmt beide Substanzen aus der Datenbank. (Die Spektren bleiben in der Validierung und dürfen auch in den Aufbau eingehen. Sie werden aber nicht zur Prüfung angeboten.)
- Er bildet eine Substanzgruppe mehrerer nicht sicher trennbarer Substanzen. Dann ist das Ergebnis mehrdeutig: Das chemometrische Modell stellt fest, dass es sich bei der Probe um eine der Substanzen aus der Gruppe handelt und dass es sich um keine andere Substanz handelt. Es kann aber nicht sagen, um welche der Substanzen es sich handelt. Um die eindeutige Identität festzustellen, muss der Anwender eine geeignete ergänzende Prüfung durchführen.
- Er erstellt ein weiteres *chemometrisches Modell* mit geringerem Umfang, in das mindestens alle Substanzen der nicht sicher trennbaren Substanzgruppe eingehen (Zweite-Stufe-Modell). Zweite-Stufe-Modelle werden nur aufgerufen, wenn die erste Stufe festgestellt hat, dass es sich nur um eine der Substanzen handeln kann, die in den Aufbau der Zweiten Stufe eingegangen ist. Die Zweite-Stufe-Modelle sind im Anhang *Zusatz zu den Modellen der zweiten Stufe* dokumentiert.

3. Set of validation spectra (validation samples)

The following is provided for validation:

a) *Type A*: The reference spectra = calibration spectra from which the database was generated. These also include spectra from substances which the *chemometric model* should not identify, but were also recorded during generation in order to increase selectivity. (As a result, the model "learns" to differentiate from other substances which are actually unknown to it.)

b) *Type B*: Spectra recorded under the control of *HiperScan GmbH* and not used for the generation of the database. These also include reference spectra of other substance classes, and spectra that are not used as reference spectra. Samples are considered to be independent, if they originate from a batch, of which no spectra have been used for the generation of the database. (Up to *IdentModule 2018-01*, samples were still considered independent if the sampling was done independently, i.e. if they originate from another sales container.)

c) *Type C*: Spectra from the field, which have not been recorded under the control of *HiperScan GmbH* and have not been used for the generation of the database. The spectra include not only substances of the substance class to be tested, but also substances from other classes.

All manufacturers' batches from which spectra are used for the validation are listed by substance in this document: for substances included in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)* in the respective validation reports; otherwise in attachments *A*, *B* and *C*.

Furthermore remains valid: validation spectra may only be removed if a error in the spectrum can be proven. Here, the spectra are not deleted, but instead placed on a *blacklist* incorporating the reason, date and initials in the commentary.

The section *Particularities of individual substance classes* treats the other substance classes from which *Type B* and *Type C* spectra are cited for validation purposes.

4. Validation runs and approval

a) Validation spectra are transferred holistically to the *IdentModule* for evaluation in the same way as the spectroscopy software *QuickStep* transfers measured spectra.

b) Following the provision of each spectrum, the *IdentModule* responds as to whether it has recognised a substance and which substance was recognised.

c) The correctness of this response is checked for each possible initial assumption (each measurable substance with the substance class) and counted according to *true negative*, *false negative*, *true positive* and *false positive*. These figures are provided for each substance and additionally in the section *Summary*, separated according to types *A*, *B* and *C* .

d) No *false positive* results whatsoever are permissible.

e) If the criterion is also met for all substance classes, the *IdentModule* is approved.

Particularities of individual substance classes

Basically, *HiperScan GmbH* procures and tests the manufacturer's certificate for the batch, commissions external testing of the identity of the sample or carries it out independently and stores the certificates. As described, this process is established for the Pharmacopoeia substances, that is to say for substance classes **APIs & excipients, solid**, **APIs & excipients, liquid/semi-solid (with analysis certificate)**, **Narcotic substances, liquid/semi-solid** and **Drugs**. Therefore, *HiperScan GmbH* is able to furnish proof of the identity of the reference samples. In case of manufacturer-specific substance classes and others, individual steps are organised differently in-part:

The substance class **APIs & excipients, liquid/semi-solid (other)** (often described as cosmetics) incorporates substances for which no specification of the requirements of the pharmaceutical quality is determined, neither in a Pharmacopoeia monograph, a DAC/NRF monograph nor via a manufacturer's specification. Consequently, neither the identity nor contents can be tested independently. No certificates whatsoever exist for the reference samples. So here, merely the matching of the sample with former samples of this product is established and confusion with the other substances is ruled-out. (If the manufacturer of such a substance prepares a specification, determines testing methods and provides manufacturer's certificates in accordance with *ApBetrO* [Pharmacies Rules and Regulations] §§ 6, 11, *HiperScan GmbH* can assign the substance to the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)* again in the future).

Substance class **HCK – nutritional supplements (Hepart)** contains the HCK micro-nutrients from the Swiss company *Hepart AG*. *HiperScan GmbH* receives the reference samples directly from the manufacturer. For each reference sample, *HiperScan GmbH* also receives manufacturer's certificates and keeps these. New checking of the identity of the reference sample is not carried out by *HiperScan GmbH*. The identity of the reference samples is therefore documented by *Hepart AG*. The spectra of all batches provided by *Hepart AG* are recorded by *HiperScan GmbH* and entered in the database.

All the manufacturer's batches are used for the generation and validation of the substance class *HCK*. The expected variation is also represented in the generation and validation if there are less than three batches.

Also, for the substance class **PhytoComm** (TCM-Granulated herbal extracts of the manufacturer *PhytoComm*) spectra for all useable batches are recorded by *HiperScan GmbH* and entered in the database. The supplier organises the respective tests themself and keeps the test certificates.

A new evaluation option was created for the class *PhytoComm* with the update 2016-01. As the risks are considerably fewer than those from chemical agents, the pharmacist can specify a reasonable criterion for the *specificity* in accordance with internal risk estimation. The database for this is created without taking safety distances into account and no criterion is determined in advance for the *specificity*. Instead, the *specificity* for testing the identity with this concrete substance is calculated in the validation for each substance and provided with the measurement result. The pharmacist then judges himself whether this safety is reasonable with regard to the risk of the substance.

Additionally, a statistical forecast is provided for the *specificity* which is determined according to the *Rule of Three* [10, 11]. For this forecast, it is assumed that there would have been three wrong results more and is provided with a lower limit for *specificity*. This value has a special meaning if a *specificity* of 100 % is achieved for a substance during validation. In this case, the lower limit allows conclusions regarding the scale of existing safety for which with an endless number of validation spectra a value of less than 100 % is to be assumed.

If, for example 14 000 spectra not belonging to the substance are presented and no *false positive* classification is made, a hypothetical number of three *false positive* results is assumed (*Rule of Three* [10, 11]) and the *specificity* is defined with 100.0000 % ($>$ 99.9786 %). Here, it applies that the higher the number of validation spectra which form the statistical basis, the better the *specificity* calculated via the lower *specificity* limit will be approximated.

The positive result of the identity test using *Apo-Ident* establishes that the sample spectrum is in accordance with a batch of the specified granulate from the supplier *PhytoComm*, whereby all useable batches from the supplier are known.

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The *PhytoComm* class can only confirm the identity of batches that have been used for the generation of the database. As a consequence there cannot be any validation spectra of other batches. Therefore, the criterion reads that two samples (from different sales containers) from each batch must exist, one for the structure of the database (*Type A*) and one for the validation (*Type B*).

Significance of testing with *Apo-Ident*

The analysis result is determined using sophisticated statistical methods according to state-of-the-art science and technology. Chemical and pharmaceutical knowledge is applied for the selection of the samples from which the calibration spectra and validation spectra are recorded. Otherwise it does not influence the further steps of model creation.

Verbally, the statement of the analysis result can be expressed as follows. Here *"the spectra match"* means that the criteria *Mahalanobis distance*, *outlier analysis* and *correlation* are met as shown in *Erfüllung von 2.2.40 Ph. Eur. durch Apo-Ident* [4]. "The spectra do not match", on the other hand, means that at least the criterion *Mahalanobis distance* is not met.

The positive analysis result *"was identified as ..."* is very meaningful because both the quantity of substances to be taken into account and the number of underlying samples is very comprehensive.

1. The spectrum of the sample measured matches spectra of the defined substance.
2. The spectrum of the sample measured does not match any spectrum of any other substance in this substance class. Therefore, all other substances can be clearly ruled-out.
3. As the spectra from other substance classes were used for validation, it is proven that no spectrum of one of these other substances matches the defined substance. (All substance classes with which a spectrum comparison is possible and makes sense are used for validation. This is documented for each substance class in the section *Summary*.)
4. If the defined substance belongs to a *substance group* which in itself is not clearly separable with *Apo-Ident*, matching with the spectra of one or several substances in this group is confirmed. Which of these substances it actually is cannot be determined clearly. All other substances are excluded analogous to 2 and 3.

On the other hand, a negative analysis result *"was not identified as ..."* means:

1. The substance offered could not be recognised based on the spectrum of this sample.
2. The identity of this sample is not confirmed.
3. Testing must be repeated in accordance with the specifications of the Pharmacopoeia.

Conclusion

NIR spectroscopy is a testing method incorporated in the Pharmacopoeia. In case of successful database validation, it is a possible method for identity testing [5]. *Apo-Ident* meets the criteria of the *European Pharmacopeia* as a near-infrared spectrometer and proves the validity of the reference database with the existing validation documentation. This means that *Apo-Ident* can be used as an alternative testing method for testing raw materials at pharmacies.

Explanation of terminology

The following section serves to explain or define specialist terminology which is required in order to understand this document. If necessary, definitions for the analysis system *Apo-Ident* are defined more precisely.

The term database is used in this document exactly as in the *Ph. Eur. Section 2.2.40* [3] synonymous with chemometric model. In order to differentiate the databases which are relatively independent of each other, *HiperScan GmbH* frequently also uses the term substance class (primarily in the plural). On the other hand, the spectra used to structure the database are termed spectrum collection and not database.

Substance classes are units of the organisational structure of the *IdentModule*. The substance classes are substance databases which are also broadly independently subscribable. On the one hand, the liquid and semi-solid substances are separated from the solid powders because they are measured against different references and therefore the spectra cannot be compared. On the other hand, for example the Pharmacopoeia substances are kept separated from the manufacturer-specific database *PhytoComm* for TCM (traditional Chinese medicine) raw materials.

The individual substance classes need only be limited against each other in-part. Often, no risk of confusion exists because they can only be procured from different sources. On the other hand, in several cases we handle substances which need not be distinguished. For example, em Huang Qi granulate from the company *PhytoComm* neither needs to be delimited from *Huang Qi* granulate from the company *HerbaSinica* nor is matching required. Respectively one single chemometric model is behind a substance class. (Even if several reciprocally secured chemometric models would be permissible.) The terms *substance class*, *chemometric model* and *databases* are mostly used here as synonyms.

A substance group respectively summarises all the substances within a substance class which cannot safely be distinguished from one another based on their NIR spectra. However, all the other substances in the database can be excluded.

The formation of subgroups is mentioned in the *Ph. Eur. Section 2.2.40* [3]. In this manner, technical restrictions in case of extensive databases can be avoided and it is possible to prepare individual subgroups with different spectrum pre-treatment. Validation of the subgroups against each other is required. *HiperScan GmbH* has solved these technical restrictions and doesn't use any subgroups within a substance class any longer.

Principal component analysis (PCA) [8, 9] is a multivariate statistics process or multivariate data analysis. It serves to structure, simplify and illustrate comprehensive data records by describing a large number of statistical variables by describing a lower number of linear combinations (the *principal components*) which are as significant as possible. In the *Apo-Ident IdentModule*, *PCA* is used to evaluate the recorded spectrum data (corresponding with *Ph. Eur. 2.2.40* [3]).

The term validation is defined in both relevant contexts here with different (even if related) meanings.

Within the sense of the expert discipline of *chemometrics*, validation is a process step when creating a chemometric model: after a transformation matrix, limits and various parameters have been calculated or determined from a set of reference spectra during the course of the calibration step [8, 9], the validation step determines the performance capability of the model (selectivity, precision, ...) based on the validation spectra. Normally, random sampling is planned here. In order for the validation to gain strength of proof, the validation spectrum set must be selected with an appropriately wide scope (*representative* and *complete*). The terms *validation run* and *validation step* always actually mean the process step in this sense.

In the regulatory sense (of pharmaceutical production), validation is the documented proof that a process or system meets the previously specified requirements reproducibly when applied practi-

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

cally. In this sense, the *Apo-Ident* databases only become validated databases with the validation documentation, which this document is part of.

The *European Pharmacopeia* uses the term validation in *Section 2.2.40* within the sense of the specialist discipline of *chemometrics* [3].

The robustness of a process is the property of only being influenced by environmental fluctuations (e.g. temperature or humidity) a little. A method is robust if the environmental conditions do not or hardly falsify the final result.

The specificity of a classification (of a chemometric model) is the true negative rate.

The recognition rate (also sensitivity) is the true positive rate. It defines in how many percent of cases a correctly set up substance is actually confirmed.

The true negative rate describes the share of spectra correctly classified as non-identity during validation. This is equivalent to correct classification. It means that a substance A within identity checking as substance B is judged as *"not identified"*. The *true negative rate* is equivalent to the conditional frequency

$$h(\text{rejected}|\text{genuinely no identity}) = \frac{r_n}{r_n + f_p}$$

with r_n as the total number of *true negative* classifications and f_p as the total number of *false positive* classifications. For successful validation of an *IdentModule*, all spectra presented belonging to this category must be classified as *not in accordance*.

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of this number. The weight of each spectrum of a substance/substance group i therefore results as

$$w_i = \frac{1}{n_i}$$

with n_i number of spectra in this substance/substance group. This weighting ensures that the overall result cannot be enhanced by adding especially large numbers of spectra from easily separable substances.

The true positive rate describes the share of spectra correctly classified as identity during validation. This is equivalent to correct classification. It means that a substance A within identity checking as substance A is judged as *"identified"*. The *true positive rate* is equivalent to the conditional frequency

$$h(\text{identified}|\text{genuine identity}) = \frac{r_p}{r_p + f_n}$$

with r_p as the total number of *true positive* classifications and f_n as the total number of *false negative* classifications. The *true positive* rate is a measure for the recognition rate of the validated *Apo-Ident IdentModule*.
In order to ensure that each substance is received with the same weight, the spectra are weighted as described for the true negative rate.

The true negative result describes a spectrum correctly classified as non-identity during validation. It is equivalent to correct classification. It means that a substance A within identity checking as substance B is judged as *"not identified"*.

The false positive result describes a spectrum falsely classified as non-identity during validation. This is the most critical type of possible false classification. It means that a substance A within identity checking as substance B is judged as *"identified"*. For successful validation of an *IdentModule*, a number of false positive events of zero are demanded for all spectra entering the validation. The exception to this restriction is the class of TCM granulates from the company *PhytoComm* as described under *Particularities of individual substance classes*.

The true positive result describes a spectrum correctly classified as identity during validation. It is equivalent to correct classification. It means that a substance A within identity checking as substance A is judged as *"identified"*.

The false negative result describes a spectrum falsely classified as non-identity during validation. It is equivalent to false classification. It means that a substance A within identity checking as substance A is judged as *"not identified"*.

The 'Rule of Three' says that with a probability of 95 % the next random sample of the same size no more than three false results are to be expected if no false result existed in the existing random sample [10, 11].

The *specificity* and *recognition rate* are determined both globally and from the validation runs for all substances. The information is supplemented with the hypothetical value if there had been three false results more. The percent information is provided in parentheses with the "greater than" symbol '>', e.g. *specificity* 100.000 % (>99.983 %) if 17 567 false spectra have been presented without one single *false positive* result. The larger the statistical basis, the lower the influence of the hypothetical false results.

The Mahalanobis distance is a distance measure between two points in n-dimensional vector space. Here, the respective direction component of the distance to *standard deviation* [12] of an n-dimensional distribution is standardised. In case of the *principal component analysis* [8, 9] this standardisation relates to the distribution of the respective calibration data set for a classification (substance/substance group) in the *principal component space* [8]. The *Mahalanobis distance* of a point (mapping of a spectrum) $\vec{y}$ in the n-dimensional principal component space to the expected value of an n-dimensional distribution $\mathbf{X}$ then results as

$$d\,(\mathbf{X}, \vec{y}) = \sqrt{(\bar{\mathbf{X}} - \vec{y})^T \mathbf{S}^{-1} (\bar{\mathbf{X}} - \vec{y})} \qquad \text{with} \qquad \mathbf{X} \in \mathbb{R}^{m \times n}, \vec{y} \in \mathbb{R}^m$$

[13]. Here, m is equivalent to the number of principal components used (dimension of the principal component space) and n the number of measurements existing in the calibration data set (spectra). $\bar{\mathbf{X}}$ is the expected value of the resulting distribution for the calibration data set (the average value of n measurements received). $\mathbf{S}^{-1}$ is the inverse covariance matrix [12] for distribution $\mathbf{X}$.

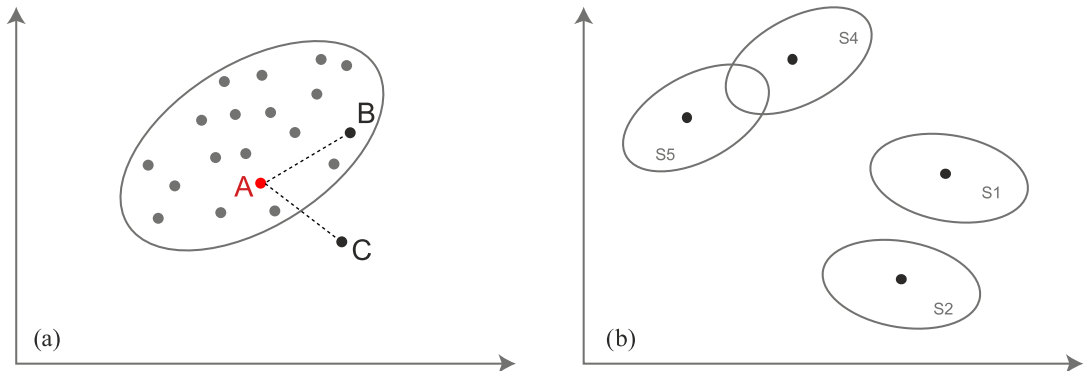

Figure 1: (a) The *Mahalanobis distance* from A to B is less than from A to C. However, the Euclidean distances are identical. (b) The *Mahalanobis distance* between the two measurement series *S4* and *S5* is smaller than between *S1* and *S2*. However, the Euclidean distances are identical.

The *Mahalanobis distance* offers advantages compared to the *Euclidean distance*: For the calculation of the distance it takes the statistical properties of a data point distribution (measurement series), i.e. average value, variance and covariance of the data points [14] into account. The *Mahalanobis distance* is applied while creating the reference database for evaluating the spectra from different samples of a substance.

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

A chemometric model is a classifier based on statistical methods [8, 9]. Through the respective algorithm used (e.g. *Principal Component Analysis*, *Cluster Analysis*), a maximum of chemical information is extracted from measurement data. Here, systematical or physical disturbances are eliminated using appropriate data pre-processing [15, 16].

At several places in this document, in order to simplify understanding, the term database is used instead of *chemometric model* – in the same manner as in the *Ph. Eur. Section 2.2.40* [3].

A sample (with its own sample ID) refers to substance in a sales container. Repeated sampling from the same sales container is listed under the same sample ID. (The suffix "SI" is not part of the sample ID.) Several samples may originate from the same batch. Samples are called "independent", if they originate from a batch, of which no spectra have been used for the generation of the database. (Up to *IdentModule 2018-01*, samples from different sales packages were considered to be independent.) The information above the list of validation spectra now includes also the number of batches that deliver independent samples for the validation (for both *Type B* and *Type C*).

In case a supplier takes a sample for testing from its incoming goods and splits it to multiple laboratory containers, the substance in all laboratory containers will still be ascribed to the same sample. *HiperScan GmbH* only uses one of the subsamples.

Reference samples are used to structure the database. The *reference spectra* originate from these samples. In chemometric technical jargon you would normally say: For *calibration*, a *chemometric model* is generated from the *calibration spectra* recorded from the *calibration samples*, whose quality is subsequently assessed in validation.

Reference samples are procured via typical pharmacy sources. Their identity is tested. The *reference spectra* are recorded by *HiperScan GmbH*. The documentation also includes the manufacturer's name and batch number.

Reference samples are clearly identified by a sample ID. Samples without sample ID may not be used as *reference samples*.

Summary

A total of 477 130 spectra from 58 085 different batches for a total of 425 substances were used to validate the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*.

Validation samples

The validation samples can be categorised as follows:

Typ A Calibration spectra. These are the spectra used to generate the chemometric model. They were recorded by *HiperScan GmbH*. Detailed information regarding the batches or samples can be found in the following validation reports under *calibration samples* and under *Type A*. Further information is listed in *Appendix A*.

Substance class	Substances	Batches	Spectra
APIs & excipients, liquid/semi-solid (with analysis certificate)	229	1413	68 499

From category *A* a total of 68 499 spectra from 1413 batches for a total of 229 substances were taken into account for validation.

Typ B Spectra from independent samples which are not included in database generation. These spectra were recorded by *HiperScan GmbH*. Detailed information regarding the batches or samples can be found in the following validation reports in the section *Type B* or in *Appendix B*.

Substance class	Substances	Batches	Spectra
APIs & excipients, liquid/semi-solid (with analysis certificate)	350	2666	111 173

From category *B* a total of 111 173 spectra from 2666 batches for a total of 350 substances were taken into account for validation.

Typ C Spectra from independent samples which are not included in database generation. *Apo-Ident* customers carried out the measurements. Detailed information regarding the batches or samples can be found in the following validation reports in the section *Type C* or in *Appendix C*.

Substance class	Substances	Batches	Spectra
APIs & excipients, liquid/semi-solid (with analysis certificate)	344	54 847	297 458

From category *C* a total of 297 458 spectra from 54 847 batches for a total of 344 substances were taken into account for validation.

Validation results

The validation runs checked whether all substances/substance groups in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, the matching of all relevant spectra of various substances with the substances/substance groups in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)* was checked and the correctness of the results was evaluated. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	68 359	20	9 315 984
Type B	0	103 433	125	15 144 208
Type C	0	276 414	4495	40 457 353

All substances/substance groups in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)* can be clearly distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Typ A	100.000 00 % (> 99.999 86 %)	99.974 61 % (> 99.965 92 %)
Typ B	100.000 00 % (> 99.999 77 %)	99.550 21 % (> 99.533 38 %)
Typ C	100.000 00 % (> 99.997 72 %)	98.296 78 % (> 98.224 95 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**(s)-Lactic acid**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30021-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

(s)-Lactic acid; Acidum (s)-lacticum

Special notes

When selecting the *(s)-Lactic acid* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
(s)-Lactic acid	5	3	183

Second-stage model

For differentiation of the substance/substance group *(S)-Lactic acid* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *(S)-Lactic acid*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	(S)-Lactic acid	12142108	30734	39	AR-14-FG-012230-01
Caelo	(S)-Lactic acid	13317311	31436	60	20131011
Caelo	(S)-Lactic acid	16144212	33271	40	20160527
Caelo	(S)-Lactic acid	190447	34456	40	20190416*
Caelo	(S)-Lactic acid	190447	34739	40	20190416*
Caelo	(S)-Lactic acid	21001697	35826	50	20210908*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 269 spectra of 6 reference samples from the substance/substance group *(S)-Lactic acid*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 230 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *(S)-Lactic acid*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	(s)-Lactic acid	90646219	30021	40
Caelo	(s)-Lactic acid	172176	33694	40
Caelo	(s)-Lactic acid	20000605	35019	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1708 spectra from 877 *Apo-Ident* customers from 189 batches from the substance/substance group *(s)-Lactic acid*.
- Among them are spectra of independent samples from 183 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	(s)-Lactic acid	71449138	2
A.H.D.	(s)-Lactic acid	15150402	1
AHD, 25.11.13	(s)-Lactic acid	1302011	1
AHD	(s)-Lactic acid	18034005	1
AHD	(s)-Lactic acid	190447005	3
AHD; 20.7.15; 5.84EUR	(s)-Lactic acid	15150402	1
Alliance Healthcare	(s)-Lactic acid	19044701	1
Anzag	(s)-Lactic acid	16144210	1
Audor Pharma	(s)-Lactic acid	APOP-DNL/11/17/001D	2
Bombastus	(s)-Lactic acid	10323202	1
Bombastus	(s)-Lactic acid	12142108	2
Caeleo/ Krieger	(s)-Lactic acid	19044701	1
Caelo	(s)-Lactic acid		2
Caelo	(s)-Lactic acid	10/AKD1	1
Caelo	(s)-Lactic acid	10323202	1
Caelo	(s)-Lactic acid	1062014C	1
Caelo	(s)-Lactic acid	109447002	1
Caelo	(s)-Lactic acid	11111644	1
Caelo	(s)-Lactic acid	11179201	3
Caelo	(s)-Lactic acid	11179207	2
Caelo	(s)-Lactic acid	11179209	1
Caelo	(s)-Lactic acid	11179214	1
Caelo	(s)-Lactic acid	11179217	6
Caelo	(s)-Lactic acid	117I-01034	1
Caelo	(s)-Lactic acid	12142101	10
Caelo	(s)-Lactic acid	12142102	6
Caelo	(s)-Lactic acid	12142104	2
Caelo	(s)-Lactic acid	12142108	5
Caelo	(s)-Lactic acid	12142109	2
Caelo	(s)-Lactic acid	12142112	11
Caelo	(s)-Lactic acid	12142162	1
Caelo	(s)-Lactic acid	128711-658	1
Caelo	(s)-Lactic acid	13020201	21
Caelo	(s)-Lactic acid	13020203	7
Caelo	(s)-Lactic acid	13020208	7

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	(s)-Lactic acid	1302021	1
Caelo	(s)-Lactic acid	13020211	18
Caelo	(s)-Lactic acid	13020212	1
Caelo	(s)-Lactic acid	13020213	1
Caelo	(s)-Lactic acid	13020808	1
Caelo	(s)-Lactic acid	13030201	1
Caelo	(s)-Lactic acid	130360	1
Caelo	(s)-Lactic acid	1309211034	1
Caelo	(s)-Lactic acid	133117308	1
Caelo	(s)-Lactic acid	133173	1
Caelo	(s)-Lactic acid	13317301	34
Caelo	(s)-Lactic acid	13317303	5
Caelo	(s)-Lactic acid	13317304	2
Caelo	(s)-Lactic acid	13317307	12
Caelo	(s)-Lactic acid	13317308	9
Caelo	(s)-Lactic acid	133173082x	1
Caelo	(s)-Lactic acid	13317309	2
Caelo	(s)-Lactic acid	13317311	19
Caelo	(s)-Lactic acid	13317313	6
Caelo	(s)-Lactic acid	13317315	5
Caelo	(s)-Lactic acid	13317393	1
Caelo	(s)-Lactic acid	14112017	1
Caelo	(s)-Lactic acid	141121	1
Caelo	(s)-Lactic acid	14112106	3
Caelo	(s)-Lactic acid	14112107	14
Caelo	(s)-Lactic acid	14112112	7
Caelo	(s)-Lactic acid	14112114	3
Caelo	(s)-Lactic acid	14112115	13
Caelo	(s)-Lactic acid	14112116	4
Caelo	(s)-Lactic acid	14112119	20
Caelo	(s)-Lactic acid	1412112	1
Caelo	(s)-Lactic acid	1510402	1
Caelo	(s)-Lactic acid	1510421	1
Caelo	(s)-Lactic acid	15150401	9
Caelo	(s)-Lactic acid	15150402	23
Caelo	(s)-Lactic acid	15150405	2
Caelo	(s)-Lactic acid	15150410	23
Caelo	(s)-Lactic acid	15150413	8
Caelo	(s)-Lactic acid	15150418	4
Caelo	(s)-Lactic acid	15150421	23
Caelo	(s)-Lactic acid	1515402	1
Caelo	(s)-Lactic acid	15306608	1
Caelo	(s)-Lactic acid	15306613	1
Caelo	(s)-Lactic acid	15308601	24
Caelo	(s)-Lactic acid	1530860102263531	1
Caelo	(s)-Lactic acid	15308602	3
Caelo	(s)-Lactic acid	15308608	39
Caelo	(s)-Lactic acid	15308609	1
Caelo	(s)-Lactic acid	15308613	22
Caelo	(s)-Lactic acid	15308615	1
Caelo	(s)-Lactic acid	16/44219	1
Caelo	(s)-Lactic acid	16121-01034	1
Caelo	(s)-Lactic acid	16141212	1
Caelo	(s)-Lactic acid	16141218	1
Caelo	(s)-Lactic acid	161442	1
Caelo	(s)-Lactic acid	16144201	30
Caelo	(s)-Lactic acid	16144206	3
Caelo	(s)-Lactic acid	16144210	37
Caelo	(s)-Lactic acid	16144212	75
Caelo	(s)-Lactic acid	16144212-20170704Ma1	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	(s)-Lactic acid	16144214	8
Caelo	(s)-Lactic acid	16144216	29
Caelo	(s)-Lactic acid	16144218	49
Caelo	(s)-Lactic acid	16144219	3
Caelo	(s)-Lactic acid	161442216	1
Caelo	(s)-Lactic acid	1618U-01034	1
Caelo	(s)-Lactic acid	1644201	1
Caelo	(s)-Lactic acid	1644212	2
Caelo	(s)-Lactic acid	1644218	1
Caelo	(s)-Lactic acid	1644219	1
Caelo	(s)-Lactic acid	17031502	1
Caelo	(s)-Lactic acid	171217601	1
Caelo	(s)-Lactic acid	17217601	65
Caelo	(s)-Lactic acid	17217811	1
Caelo	(s)-Lactic acid	18034	1
Caelo	(s)-Lactic acid	180340004	1
Caelo	(s)-Lactic acid	180340005	1
Caelo	(s)-Lactic acid	18034002	6
Caelo	(s)-Lactic acid	18034004	50
Caelo	(s)-Lactic acid	18034005	118
Caelo	(s)-Lactic acid	180340055756	1
Caelo	(s)-Lactic acid	18034006	8
Caelo	(s)-Lactic acid	18034010	6
Caelo	(s)-Lactic acid	18034013	77
Caelo	(s)-Lactic acid	1803404004	1
Caelo	(s)-Lactic acid	18034055	1
Caelo	(s)-Lactic acid	180344005	1
Caelo	(s)-Lactic acid	180345	1
Caelo	(s)-Lactic acid	18064004	1
Caelo	(s)-Lactic acid	180808187	1
Caelo	(s)-Lactic acid	1813A-01034	1
Caelo	(s)-Lactic acid	1900447002	2
Caelo	(s)-Lactic acid	1900447005	1
Caelo	(s)-Lactic acid	1904071	1
Caelo	(s)-Lactic acid	1904470	1
Caelo	(s)-Lactic acid	190447002	90
Caelo	(s)-Lactic acid	190447004	6
Caelo	(s)-Lactic acid	190447005	71
Caelo	(s)-Lactic acid	19044701	78
Caelo	(s)-Lactic acid	19044702	17
Caelo	(s)-Lactic acid	1904477005	1
Caelo	(s)-Lactic acid	19047002	1
Caelo	(s)-Lactic acid	19047005	1
Caelo	(s)-Lactic acid	200000605005	1
Caelo	(s)-Lactic acid	20000605003	1
Caelo	(s)-Lactic acid	20000605005	19
Caelo	(s)-Lactic acid	20000605009	7
Caelo	(s)-Lactic acid	2000060505	1
Caelo	(s)-Lactic acid	200006505005	1
Caelo	(s)-Lactic acid	20004093002	11
Caelo	(s)-Lactic acid	20004093003	2
Caelo	(s)-Lactic acid	20004096002	1
Caelo	(s)-Lactic acid	2000605005	2
Caelo	(s)-Lactic acid	2014U-01034	1
Caelo	(s)-Lactic acid	2019	1
Caelo	(s)-Lactic acid	20221110-4	1
Caelo	(s)-Lactic acid	21001697001	5
Caelo	(s)-Lactic acid	21001697005	4
Caelo	(s)-Lactic acid	2101202	1
Caelo	(s)-Lactic acid	2182	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	(s)-Lactic acid	2263531	2
Caelo	(s)-Lactic acid	2710Q-01034	1
Caelo	(s)-Lactic acid	2719I-01034	1
Caelo	(s)-Lactic acid	3435	1
Caelo	(s)-Lactic acid	408Q-01034	1
Caelo	(s)-Lactic acid	4116A-01034	1
Caelo	(s)-Lactic acid	5(17217601)	1
Caelo	(s)-Lactic acid	5031301	1
Caelo	(s)-Lactic acid	5217M-01034	1
Caelo	(s)-Lactic acid	62186516	1
Caelo	(s)-Lactic acid	81302029	1
Caelo	(s)-Lactic acid	9064607	1
Caelo	(s)-Lactic acid	90646369	1
Caelo	(s)-Lactic acid	913Q-01034	1
Caelo	(s)-Lactic acid	9321404	1
Caelo	(s)-Lactic acid	9321408	2
Caelo	(s)-Lactic acid	9321419	1
Caelo	(s)-Lactic acid	A-220413-3	1
Caelo	(s)-Lactic acid	A-310513-1	1
Caelo	(s)-Lactic acid	AP20	1
Caelo	(s)-Lactic acid	P-15101921/19044701	1
Caeolo/Noweda	(s)-Lactic acid	15150410	1
Caesar & Lorenz GmbH	(s)-Lactic acid	19044701	1
Caesar & Loretz GmbH / ...	(s)-Lactic acid	18034013	1
Caesar & Loretz GmbH / ...	(s)-Lactic acid	15308608	2
Caesar & Loretz GmbH / ...	(s)-Lactic acid	18034005	1
Caesar & Loretz GmbH / ...	(s)-Lactic acid	190447005	1
Caesar & Loretz GmbH / ...	(s)-Lactic acid	19044701	1
Caesar & Loretz GmbH / ...	(s)-Lactic acid	18034013	1
Caesar & Loretz GmbH Hi...	(s)-Lactic acid	14112112	1
Caesar & Loretz GmbH/ G...	(s)-Lactic acid	19044701	1
Caesar & Loretz GmbH/ G...	(s)-Lactic acid	19044702	1
Caesar & Loretz GmbH/ J...	(s)-Lactic acid	20000605005	1
Caesar & Loretz GmbH/ K...	(s)-Lactic acid	19044701	1
Caesar & Loretz GmbH/ P...	(s)-Lactic acid	18034013	1
Caesar & Loretz GmbH/ S...	(s)-Lactic acid	20000605009	1
Caesar & Loretz GmbH/ S...	(s)-Lactic acid	21001697005	1
Caesar & Loretz GmbH/Al...	(s)-Lactic acid	19044701	1
Caesar & Loretz GmbH/An...	(s)-Lactic acid	18034013	1
Caesar & Loretz GmbH/An...	(s)-Lactic acid	190447004	1
Caesar & Loretz GmbH/Gehe	(s)-Lactic acid	190447005	1
Caesar & Loretz GmbH/GEHE	(s)-Lactic acid	190447005	1
Caesar & Loretz GmbH/GEHE	(s)-Lactic acid	20004093002	1
Caesar & Loretz GmbH/Je...	(s)-Lactic acid	19044701	1
Caesar & Loretz GmbH/Je...	(s)-Lactic acid	20000605005	1
Caesar & Loretz GmbH/Je...	(s)-Lactic acid	20000605009	1
Caesar & Loretz GmbH/Kehr	(s)-Lactic acid	190447004	1
Caesar & Loretz GmbH/Kr...	(s)-Lactic acid	190447005	1
Caesar & Loretz GmbH/Ph...	(s)-Lactic acid	18034013	1
Caesar & Loretz GmbH/Ph...	(s)-Lactic acid	20000605005	1
Caesar & Loretz GmbH/PP...	(s)-Lactic acid	190447002	1
Caesar & Loretz GmbH/Sa...	(s)-Lactic acid	18034013	1
Caesar & Loretz GmbH/Sa...	(s)-Lactic acid	AP210225-01	1
Caesar & Loretz GmbH	(s)-Lactic acid	13317308	1
Caesar & Loretz GmbH	(s)-Lactic acid	14112107	1
Caesar & Loretz GmbH	(s)-Lactic acid	16144218	1
Caesar & Loretz GmbH	(s)-Lactic acid	18034005	12
Caesar & Loretz GmbH	(s)-Lactic acid	18034010	1
Caesar & Loretz GmbH	(s)-Lactic acid	18034013	10
Caesar & Loretz GmbH	(s)-Lactic acid	190447	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	(s)-Lactic acid	190447002	8
Caesar & Loretz GmbH	(s)-Lactic acid	190447004	2
Caesar & Loretz GmbH	(s)-Lactic acid	190447005	19
Caesar & Loretz GmbH	(s)-Lactic acid	19044701	16
Caesar & Loretz GmbH	(s)-Lactic acid	19044702	4
Caesar & Loretz GmbH	(s)-Lactic acid	20000605003	2
Caesar & Loretz GmbH	(s)-Lactic acid	20000605005	6
Caesar & Loretz GmbH	(s)-Lactic acid	20000605009	6
Caesar & Loretz GmbH	(s)-Lactic acid	20004093002	7
Caesar & Loretz GmbH	(s)-Lactic acid	21001697001	4
Caesar & Loretz Hilden	(s)-Lactic acid	18034005	1
Caesar & Loretz Hilden	(s)-Lactic acid	18034013	1
Caesar & Loretz/Geilenk...	(s)-Lactic acid	190447005	1
Caesar & Loretz	(s)-Lactic acid	18031013	1
Caesar & Loretz	(s)-Lactic acid	18034013	1
Caesar und Loretz	(s)-Lactic acid	19044701	1
Caesar&Lorenz / Gehe	(s)-Lactic acid	19044701	1
Caesar&Loretz GmbH,22.0...	(s)-Lactic acid	16144212	1
Caesar&Loretz GmbH/ San...	(s)-Lactic acid	16144218	1
Caesar&Loretz GmbH/Anzag	(s)-Lactic acid	13020211	1
Caesar&Loretz GmbH	(s)-Lactic acid	15308601	1
Caesar&loretz,AHC	(s)-Lactic acid	13317309	1
Caesar&Loretz/Noweda	(s)-Lactic acid	15150402	1
Caesar/Lorenz	(s)-Lactic acid	13020201	1
Caleo / Sanacorp	(s)-Lactic acid	21001697001	1
Caolo- Noweda	(s)-Lactic acid	13020211	1
Cealo/Kehr	(s)-Lactic acid	13317312	1
Cealo/Sanacorp	(s)-Lactic acid	18034005	1
Celo/Kehr/06.04.2020	(s)-Lactic acid	190447002	1
Euro OTC	(s)-Lactic acid	14112112	1
Euro OTC	(s)-Lactic acid	1503086-03	1
Euro OTC	(s)-Lactic acid	15150410	1
Euro OTC	(s)-Lactic acid	16144210	1
Euro OTC	(s)-Lactic acid	18034005	1
Euro OTC	(s)-Lactic acid	18034013	1
Fagron	(s)-Lactic acid	14112112	2
Fagron	(s)-Lactic acid	16144216	1
Fagron	(s)-Lactic acid	18034005	1
Fiebig	(s)-Lactic acid	18034004	1
Fiebig	(s)-Lactic acid	18034005	1
Fiebig	(s)-Lactic acid	18034013	1
Fischar/Phönix	(s)-Lactic acid	18034013	1
Gatt-Koller	(s)-Lactic acid	1802081	1
Gehe 03.11.21 EK:9,63EUR	(s)-Lactic acid	211108M	1
Gehe amax	(s)-Lactic acid	16144212	1
Gehe amax	(s)-Lactic acid	190447005	1
Gehe	(s)-Lactic acid	11179217	1
Gehe	(s)-Lactic acid	13020208	1
Gehe	(s)-Lactic acid	14112119	3
Gehe	(s)-Lactic acid	15150402	2
Gehe	(s)-Lactic acid	15150410	1
Gehe	(s)-Lactic acid	15308608	1
Gehe	(s)-Lactic acid	16144201	2
GEHE	(s)-Lactic acid	16144201	1
Gehe	(s)-Lactic acid	16144212	1
Gehe	(s)-Lactic acid	16144218	1
Gehe	(s)-Lactic acid	17217601	2
GEHE	(s)-Lactic acid	17217601	1
GEHE	(s)-Lactic acid	18034004	1
Gehe	(s)-Lactic acid	18034005	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
GEHE	(s)-Lactic acid	18034005	1
Gehe	(s)-Lactic acid	190447002	1
Gehe	(s)-Lactic acid	190447005	1
GEHE	(s)-Lactic acid	19044701	1
Gehe	(s)-Lactic acid	19044702	2
GEHE	(s)-Lactic acid	21021180/2	1
Gumo	(s)-Lactic acid	18034005	1
Gutenberg-Apotheke	(s)-Lactic acid	13317303	1
Henry Lamotte / Gehe	(s)-Lactic acid	108034005	1
Henry Lamotte/Phoenix	(s)-Lactic acid	16144218	1
Kehr	(s)-Lactic acid	17217601	1
Kehr	(s)-Lactic acid	190447002	1
Kögl	(s)-Lactic acid	1700073	2
Kögl	(s)-Lactic acid	261708161217	1
Kögl	(s)-Lactic acid	261708164816	1
L12	(s)-Lactic acid	16144201	1
Lamotte/Ebert	(s)-Lactic acid	16144212	1
Lamotte	(s)-Lactic acid	19044701	1
Noweda 18.05.2015	(s)-Lactic acid	141121119	1
Noweda	(s)-Lactic acid	13020208	1
Noweda	(s)-Lactic acid	15150410	2
Noweda	(s)-Lactic acid	16144212	1
Noweda	(s)-Lactic acid	16144218	1
Noweda	(s)-Lactic acid	18034004	1
Noweda	(s)-Lactic acid	18034010	1
Noweda	(s)-Lactic acid	190447002	1
Noweda	(s)-Lactic acid	20000605005	1
Noweda	(s)-Lactic acid	81302139	1
Phoenix 26.01.2019	(s)-Lactic acid	18034010	1
Phoenix Goettin	(s)-Lactic acid	14112115	1
phoenix	(s)-Lactic acid	14112107	1
Phoenix	(s)-Lactic acid	15308608	1
Phoenix	(s)-Lactic acid	15308613	1
Phoenix	(s)-Lactic acid	18034004	1
Phoenix	(s)-Lactic acid	18034013	1
Phoenix	(s)-Lactic acid	191260611	1
Phoenix	(s)-Lactic acid	3062	1
Phoenix	(s)-Lactic acid	3413	1
Phönix 26.07.2019	(s)-Lactic acid	19044702	2
Phönix, 21.03.2013	(s)-Lactic acid	13020201	1
Phönix	(s)-Lactic acid	13020211	1
Phönix	(s)-Lactic acid	16144210	1
Phönix	(s)-Lactic acid	16144216	1
Phönix	(s)-Lactic acid	16144219	1
Phönix	(s)-Lactic acid	19044702	1
Phönix	(s)-Lactic acid	20000605005	1
Phönix	(s)-Lactic acid	20000605009	2
Purren Apotheke	(s)-Lactic acid	12069	1
Rondell Apotheke	(s)-Lactic acid	15150402	1
Rondell Apotheke	(s)-Lactic acid	15308613	1
Samariter Apotheke	(s)-Lactic acid	15308613	1
Sanacorp	(s)-Lactic acid	13020201	1
Sanacorp	(s)-Lactic acid	13317307	1
Sanacorp	(s)-Lactic acid	13317311	1
Sanacorp	(s)-Lactic acid	13317315	1
Sanacorp	(s)-Lactic acid	14112107	1
Sanacorp	(s)-Lactic acid	15150410	2
Sanacorp	(s)-Lactic acid	16144201	1
Sanacorp	(s)-Lactic acid	16144212	1
Sanacorp	(s)-Lactic acid	16144218	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	(s)-Lactic acid	17217601	1
Sanacorp	(s)-Lactic acid	18034005	2
Sanacorp	(s)-Lactic acid	190447005	3
Sanacorp	(s)-Lactic acid	19044701	2
Sanacorp	(s)-Lactic acid	20004093002	1
siehe alte Protokoll	(s)-Lactic acid	170719	2
Spangro 7.11.2018	(s)-Lactic acid	18034006	1
Taoasis	(s)-Lactic acid	17217601	1
Unisan	(s)-Lactic acid	13020208	2
WEPA Apothekenbedarf Gm...	(s)-Lactic acid	LOTAP0074	1
xxx / SW	(s)-Lactic acid	xx270519/332	1

- 295 750 spectra from 1324 *Apo-Ident* customers from a total of 52 802 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *(s)-Lactic acid* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *(s)-Lactic acid* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	269	0	68 230
Type B	0	120	0	111 193
Type C	0	1696	12	295 750

The substance/substance group *(s)-Lactic acid* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.7695 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.2974 % (> 99.1218 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *(s)-Lactic acid* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Substance	Distance in main model	Distance in second-stage model
Pine tar	110.66	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *(S)-Lactic acid* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30734	30734	0.00	162.35
31436	34456	0.46	157.82
33271	30734	4.94	161.48
34456	34456	0.00	158.14
34739	34739	0.00	158.53
35826	35826	0.00	161.39

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**1,3-butanediol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30851-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

1,3-butanediol; 1,3-Butandiolum

Special notes

When selecting the *1,3-butanediol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
1,3-butanediol	2	2	14

Second-stage model

For differentiation of the substance/substance group *1,3-butanediol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *1,3-butanediol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Fagron	1,3-butanediol	12J02-N07	30851	40	1402682
Fagron	1,3-butanediol	14G16-B01-296698	31594	60	20140804

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 100 spectra of 2 reference samples from the substance/substance group *1,3-butanediol*. These samples are listed above in the *calibration samples* section. The reference samples come from 2 different batches.
- 68 399 spectra from a total of 1411 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *1,3-butanediol*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Fagron	1,3-butanediol	15E15-B02-332109	33788	40
Fagron	1,3-butanediol	17E22-B02-343289	34480	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 15 spectra from 11 *Apo-Ident* customers from 14 batches from the substance/substance group *1,3-butanediol*.

- Among them are spectra of independent samples from 14 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	1,3-butanediol	13L19-B03-291208	1
Fagron	1,3-butanediol	13A17-N03	1
Fagron	1,3-butanediol	14G16-B01-301882	1
Fagron	1,3-butanediol	15E15-B02	1
Fagron	1,3-butanediol	15E15-B02-325757	1
Fagron	1,3-butanediol	15E15-B02-332109	1
Fagron	1,3-butanediol	17E22-B02	1
Fagron	1,3-butanediol	17E22-B02-343289	1
Fagron	1,3-butanediol	17E22-B02-35823	1
Fagron	1,3-butanediol	17E22B02-358234	1
Fagron	1,3-butanediol	17E22-B02-358234	1
Fagron	1,3-butanediol	17E22-B02-365583	1
Fagron	1,3-butanediol	B02-3655803	1
Fagron	1,3-butanediol	S6526964	1
PHÖNIX	1,3-butanediol	15E15-B02	1

- 297 443 spectra from 1324 *Apo-Ident* customers from a total of 52 973 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *1,3-butanediol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *1,3-butanediol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	100	0	68 399
Type B	0	74	6	111 233
Type C	0	15	0	297 443

The substance/substance group *1,3-butanediol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9811 %)	100.0000 % (> 94.0000 %)
Type B	100.0000 % (> 99.9679 %)	92.5000 % (> 88.7500 %)
Type C	100.0000 % (> 99.6881 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *1,3-butanediol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dexpanthenol	30.85	–
Dexpanthenol concentrate 50%	84.28	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *1,3-butanediol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30851	30851	0.00	50.19
31594	30851	6.37	51.01

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**2-ethylhexyl laurate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30849-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

2-ethylhexyl laurate; 2-Ethylhexylis lauras

Special notes

When selecting the *2-ethylhexyl laurate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
2-ethylhexyl laurate	6	4	129

Second-stage model

For differentiation of the substance/substance group *2-ethylhexyl laurate* the following second-stage model is used:

- Submodel 06

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *2-ethylhexyl laurate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	2-ethylhexyl lau...	21001639	35849	50	20210413
Caelo	2-ethylhexyl lau...	14129303	31373	40	20140429
Caelo	2-ethylhexyl lau...	14129304	31507	60	20140429
Caelo	2-ethylhexyl lau...	153825	31878	60	20151113*
Caelo	2-ethylhexyl lau...	163157	33086	40	20161124*
Caelo	2-ethylhexyl lau...	163482	33087	40	20170106*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 290 spectra of 6 reference samples from the substance/substance group *2-ethylhexyl laurate*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 209 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *2-ethylhexyl laurate*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
apomix	2-ethylhexyl laurate	148-8013011120	36244	40
apomix	2-ethylhexyl laurate	148-8013010322	36385	40
Caelo	2-ethylhexyl laurate	17065201	33786	40
Caelo	2-ethylhexyl laurate	180194	33885	40

- 111 153 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 860 spectra from 460 *Apo-Ident* customers from 131 batches from the substance/substance group *2-ethylhexyl laurate*.

- Among them are spectra of independent samples from 129 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD / Pharmachem Pößneck	2-ethylhexyl laurate	50414	2
AHD/Pharmachem.	2-ethylhexyl laurate	10515	8
AHD/Pharmachem	2-ethylhexyl laurate	10616	5
AHD	2-ethylhexyl laurate	13010719	1
Allianc. Health. / Phar...	2-ethylhexyl laurate	10515	1
Allianz	2-ethylhexyl laurate	18121804	1
Allinace	2-ethylhexyl laurate	17065201	1
apomiNeid	2-ethylhexyl laurate	14880140010618	1
apomix	2-ethylhexyl laurate	13010719	1
apomix	2-ethylhexyl laurate	13011120	3
apomix	2-ethylhexyl laurate	148_8014010618	1
apomix	2-ethylhexyl laurate	1488013010218	1
apomix	2-ethylhexyl laurate	148-8013010218	24
apomix	2-ethylhexyl laurate	148-8013010218ZA52/18	1
apomix	2-ethylhexyl laurate	148-8013010322	1
apomix	2-ethylhexyl laurate	1488013010616	1
apomix	2-ethylhexyl laurate	148-8013010616	21
apomix	2-ethylhexyl laurate	148-8013010616ZA210	1
apomix	2-ethylhexyl laurate	148-80130106ZA182/16	1
apomix	2-ethylhexyl laurate	148-8013010719	16
apomix	2-ethylhexyl laurate	148-8013011116	13
apomix	2-ethylhexyl laurate	148-8013011120	9
apomix	2-ethylhexyl laurate	148-8013011120ZA13/21	1
apomix	2-ethylhexyl laurate	148-801301116	1
apomix	2-ethylhexyl laurate	148-801310616	1
apomix	2-ethylhexyl laurate	148-8014010517	12
apomix	2-ethylhexyl laurate	1488014010618	1
apomix	2-ethylhexyl laurate	148-8014010618	10
apomix	2-ethylhexyl laurate	148-8014010618ZA252/18	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	2-ethylhexyl laurate	148-8014010720	3
apomix	2-ethylhexyl laurate	148-8014010720ZA176/20	2
apomix	2-ethylhexyl laurate	148-8014010815	1
apomix	2-ethylhexyl laurate	148-80140618	1
apomix	2-ethylhexyl laurate	148-8015010319	16
apomix	2-ethylhexyl laurate	16348202	1
apomix	2-ethylhexyl laurate	2119I-03641	1
apomix	2-ethylhexyl laurate	2140817	1
apomix	2-ethylhexyl laurate	2516Q-03641	1
apomix	2-ethylhexyl laurate	2817E-03641	1
apomix	2-ethylhexyl laurate	2918E-03641	2
apomix	2-ethylhexyl laurate	3114U-03641	1
apomix	2-ethylhexyl laurate	40514	1
apomix	2-ethylhexyl laurate	48-8013011120	1
apomix	2-ethylhexyl laurate	8014010618	1
apomix	2-ethylhexyl laurate	8014210112	1
apomix	2-ethylhexyl laurate	8014260413	4
apomix	2-ethylhexyl laurate	8015010115	6
apomix	2-ethylhexyl laurate	8015010115ZA48/15	1
apomix	2-ethylhexyl laurate	8015010515	1
apomix	2-ethylhexyl laurate	8015050414	5
apomix	2-ethylhexyl laurate	8015050414ZA96/14	1
apomix	2-ethylhexyl laurate	813M-03324	1
apomix	2-ethylhexyl laurate	8325111111	1
apomix	2-ethylhexyl laurate	ZA131/19	1
apomix	2-ethylhexyl laurate	ZA182/16	1
Bombastus	2-ethylhexyl laurate	148-8013010616	1
Bombastus	2-ethylhexyl laurate	18001251	2
Bombastus	2-ethylhexyl laurate	18004026P-181227-6	1
Bombastus	2-ethylhexyl laurate	221010	1
Bombastus	2-ethylhexyl laurate	289553	1
Bombastus	2-ethylhexyl laurate	304559	1
Caelo	2-ethylhexyl laurate		1
Caelo	2-ethylhexyl laurate	10515	1
Caelo	2-ethylhexyl laurate	13018601	1
Caelo	2-ethylhexyl laurate	130312	1
Caelo	2-ethylhexyl laurate	13252003	1
Caelo	2-ethylhexyl laurate	14129304	1
Caelo	2-ethylhexyl laurate	14182802	1
Caelo	2-ethylhexyl laurate	1482802	1
Caelo	2-ethylhexyl laurate	1488013010218	1
Caelo	2-ethylhexyl laurate	148-8013010218	1
Caelo	2-ethylhexyl laurate	1488013010616	1
Caelo	2-ethylhexyl laurate	148-8013010616	3
Caelo	2-ethylhexyl laurate	148-8013010719	1
Caelo	2-ethylhexyl laurate	148-8013011116	1
Caelo	2-ethylhexyl laurate	1488014010517	1
Caelo	2-ethylhexyl laurate	148-8014010517	1
Caelo	2-ethylhexyl laurate	148-8014010517ZA241	1
Caelo	2-ethylhexyl laurate	148-8014010618	1
Caelo	2-ethylhexyl laurate	148-8014010815	2
Caelo	2-ethylhexyl laurate	148-801410618	1
Caelo	2-ethylhexyl laurate	15382601	4
Caelo	2-ethylhexyl laurate	16143801	1
Caelo	2-ethylhexyl laurate	16143802	2
Caelo	2-ethylhexyl laurate	16143803	4
Caelo	2-ethylhexyl laurate	16143804	2
Caelo	2-ethylhexyl laurate	16245001	8
Caelo	2-ethylhexyl laurate	16245003	3
Caelo	2-ethylhexyl laurate	16245004	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	2-ethylhexyl laurate	16315701	7
Caelo	2-ethylhexyl laurate	16315703	4
Caelo	2-ethylhexyl laurate	163348201	1
Caelo	2-ethylhexyl laurate	16348201	14
Caelo	2-ethylhexyl laurate	16348202	12
Caelo	2-ethylhexyl laurate	17065201	7
Caelo	2-ethylhexyl laurate	17065202	6
Caelo	2-ethylhexyl laurate	170665201	1
Caelo	2-ethylhexyl laurate	18019403	7
Caelo	2-ethylhexyl laurate	18019405	6
Caelo	2-ethylhexyl laurate	181211802	1
Caelo	2-ethylhexyl laurate	18121802	27
Caelo	2-ethylhexyl laurate	18121804	12
Caelo	2-ethylhexyl laurate	1812802	2
Caelo	2-ethylhexyl laurate	18225901	47
Caelo	2-ethylhexyl laurate	18234902	8
Caelo	2-ethylhexyl laurate	18234905	2
Caelo	2-ethylhexyl laurate	19121001	1
Caelo	2-ethylhexyl laurate	1912404	1
Caelo	2-ethylhexyl laurate	191241001	27
Caelo	2-ethylhexyl laurate	19124101	10
Caelo	2-ethylhexyl laurate	19124104	31
Caelo	2-ethylhexyl laurate	191251001	1
Caelo	2-ethylhexyl laurate	1924104	1
Caelo	2-ethylhexyl laurate	20002646001	13
Caelo	2-ethylhexyl laurate	20004416002	16
Caelo	2-ethylhexyl laurate	20004416003	15
Caelo	2-ethylhexyl laurate	21001844002	1
Caelo	2-ethylhexyl laurate	21004021002	2
Caelo	2-ethylhexyl laurate	21091303	1
Caelo	2-ethylhexyl laurate	220401EL	1
Caelo	2-ethylhexyl laurate	50414	4
Caelo	2-ethylhexyl laurate	779002	1
Caelo	2-ethylhexyl laurate	8014210112	1
Caelo	2-ethylhexyl laurate	8015180213	1
Caeol/Noweda	2-ethylhexyl laurate	19124104	1
Caeolo / ahd	2-ethylhexyl laurate	17065201	1
Caesar & Loretz GmbH / ...	2-ethylhexyl laurate	17065202	1
Caesar & Loretz GmbH/ J...	2-ethylhexyl laurate	191241001	1
Caesar & Loretz GmbH/ S...	2-ethylhexyl laurate	20004416003	1
Caesar & Loretz GmbH/Fi...	2-ethylhexyl laurate	191241001	1
Caesar & Loretz GmbH/Fi...	2-ethylhexyl laurate	19124104	1
Caesar & Loretz GmbH/Fi...	2-ethylhexyl laurate	20002646001	1
Caesar & Loretz GmbH/Ph...	2-ethylhexyl laurate	20004416002	1
Caesar & Loretz GmbH/Ph...	2-ethylhexyl laurate	20004416002	2
Caesar & Loretz GmbH/Sa...	2-ethylhexyl laurate	18225901	1
Caesar & Loretz GmbH/Sa...	2-ethylhexyl laurate	18234905	1
Caesar & Loretz GmbH/sa...	2-ethylhexyl laurate	1912410	1
Caesar & Loretz GmbH/Sa...	2-ethylhexyl laurate	AP210204-03	1
Caesar & Loretz GmbH	2-ethylhexyl laurate	17065201	1
Caesar & Loretz GmbH	2-ethylhexyl laurate	18225901	2
Caesar & Loretz GmbH	2-ethylhexyl laurate	1822901	1
Caesar & Loretz GmbH	2-ethylhexyl laurate	18234902	2
Caesar & Loretz GmbH	2-ethylhexyl laurate	18234905	2
Caesar & Loretz GmbH	2-ethylhexyl laurate	191241001	9
Caesar & Loretz GmbH	2-ethylhexyl laurate	19124101	1
Caesar & Loretz GmbH	2-ethylhexyl laurate	19124104	9
Caesar & Loretz GmbH	2-ethylhexyl laurate	20002646001	2
Caesar & Loretz GmbH	2-ethylhexyl laurate	20004416002	6
Caesar & Loretz GmbH	2-ethylhexyl laurate	20004416003	7

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar&Loretz GmbH/ San...	2-ethylhexyl laurate	17065202	1
DHW GmbH Rodleben	2-ethylhexyl laurate	148-8014010720	1
DHW/AHD	2-ethylhexyl laurate	148-8013010218	1
E Plus	2-ethylhexyl laurate	16348202	1
EuRho/Noweda	2-ethylhexyl laurate	18019403	1
Euro OTC	2-ethylhexyl laurate	148-8014010618	1
Euro OTC	2-ethylhexyl laurate	50414	2
Fagron	2-ethylhexyl laurate	148-8013010218	1
Fagron	2-ethylhexyl laurate	148-8013010616	1
Fagron	2-ethylhexyl laurate	19E20-B02-192819	1
Gehe / Pharmachem. Pößn...	2-ethylhexyl laurate	10616	2
Gehe	2-ethylhexyl laurate	130312	2
Gehe	2-ethylhexyl laurate	148-8013010218	1
GEHE	2-ethylhexyl laurate	148-8013010218	2
Gehe	2-ethylhexyl laurate	148-8015010319	1
Hepart	2-ethylhexyl laurate	10616	1
Ichthyol	2-ethylhexyl laurate	8015180213	1
Kehr/Pharmachem	2-ethylhexyl laurate	1501202	1
Kehr	2-ethylhexyl laurate	18121802	1
L10	2-ethylhexyl laurate	18019405	1
L10	2-ethylhexyl laurate	18225901	1
L12	2-ethylhexyl laurate	148-8013011116	1
Nachtestung-Verlängerung	2-ethylhexyl laurate	275/18	1
Noeweda	2-ethylhexyl laurate	1501201	1
Noweda	2-ethylhexyl laurate	130312	2
Noweda	2-ethylhexyl laurate	16348202	2
Noweda	2-ethylhexyl laurate	18019405	3
Noweda	2-ethylhexyl laurate	1812202	2
Noweda	2-ethylhexyl laurate	18234902	1
Noweda	2-ethylhexyl laurate	19001244	1
Noweda	2-ethylhexyl laurate	191241001	4
Noweda	2-ethylhexyl laurate	19124101	1
Noweda	2-ethylhexyl laurate	19124104	1
Noweda	2-ethylhexyl laurate	200002646001	1
Noweda	2-ethylhexyl laurate	20002646001	1
Noweda	2-ethylhexyl laurate	20004416003	1
Noweda	2-ethylhexyl laurate	21004021002	1
Nowedea 15.7.17	2-ethylhexyl laurate	16348202	1
Pharm.Pößneck/AHD	2-ethylhexyl laurate	10616	3
Pharma Pößneck	2-ethylhexyl laurate	10515	1
Pharma Pößneck	2-ethylhexyl laurate	240314	1
Pharmach.Pößneck/AHD	2-ethylhexyl laurate	260418	2
Pharmach.Pößneck/AHD	2-ethylhexyl laurate	290317	5
Pharmachem / Alliance H...	2-ethylhexyl laurate	10616	1
Pharmachem / Anzag	2-ethylhexyl laurate	2304194	1
Pharmachem / Phoenix	2-ethylhexyl laurate	260418	1
Pharmachem / Phönix	2-ethylhexyl laurate	10213	1
Pharmachem Anzag	2-ethylhexyl laurate	130312	2
Pharmachem GmbH & Co KG	2-ethylhexyl laurate	10616	1
Pharmachem GmbH & Co KG	2-ethylhexyl laurate	1501201	1
Pharmachem GmbH & Co KG	2-ethylhexyl laurate	260418	2
Pharmachem GmbH & Co KG	2-ethylhexyl laurate	290317	1
Pharmachem GmbH & Co. K...	2-ethylhexyl laurate	260418	1
pharmachem Gmbh Pößneck	2-ethylhexyl laurate	10213	1
Pharmachem GmbH Pößneck	2-ethylhexyl laurate	15012005	1
Pharmachem GmbH&Co.KG/N...	2-ethylhexyl laurate	10616	1
Pharmachem GmbH&Co.KG	2-ethylhexyl laurate	10515	1
Pharmachem GmbH&Co.KG	2-ethylhexyl laurate	130312	1
Pharmachem GmbH&Co.KG	2-ethylhexyl laurate	1501202	1
Pharmachem GmbH&Co.KG	2-ethylhexyl laurate	260418	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem GmbH&Co.KG	2-ethylhexyl laurate	290317	1
Pharmachem GmbH/ Gehe	2-ethylhexyl laurate	1501202	1
Pharmachem GmbH/Gehe	2-ethylhexyl laurate	1501202	1
Pharmachem GmbH/Gehe	2-ethylhexyl laurate	2304195	1
Pharmachem GmbH	2-ethylhexyl laurate	10213	2
pharmachem gmbh	2-ethylhexyl laurate	10616	1
Pharmachem GmbH	2-ethylhexyl laurate	10616	1
Pharmachem GmbH	2-ethylhexyl laurate	130312	1
Pharmachem GmbH	2-ethylhexyl laurate	131111	2
Pharmachem GmbH	2-ethylhexyl laurate	1812203	1
Pharmachem GmbH	2-ethylhexyl laurate	2304191	1
pharmachem gmbh	2-ethylhexyl laurate	50414	1
Pharmachem GmbH	2-ethylhexyl laurate	50414	1
Pharmachem Phönix	2-ethylhexyl laurate	260418	1
Pharmachem pöneck/Phönix	2-ethylhexyl laurate	260418	1
Pharmachem Pösneck/Noweda	2-ethylhexyl laurate	10515	4
Pharmachem Pösneck/Noweda	2-ethylhexyl laurate	50414	2
Pharmachem Pösneck	2-ethylhexyl laurate	50414	2
Pharmachem Pößneck /Now...	2-ethylhexyl laurate	10515	3
Pharmachem Pößneck /Now...	2-ethylhexyl laurate	50414	2
Pharmachem Pößneck GmbH...	2-ethylhexyl laurate	10616	1
Pharmachem Pößneck GmbH...	2-ethylhexyl laurate	260418	1
Pharmachem Pößneck GmbH...	2-ethylhexyl laurate	290317	1
Pharmachem Pößneck, GEHE	2-ethylhexyl laurate	10515	1
Pharmachem Pößneck/ Now...	2-ethylhexyl laurate	2304193	1
Pharmachem Pößneck/Sana...	2-ethylhexyl laurate	10515	1
Pharmachem Pößneck/Sana...	2-ethylhexyl laurate	50414	1
Pharmachem Pößneck	2-ethylhexyl laurate	10213	2
Pharmachem Pößneck	2-ethylhexyl laurate	10616	1
Pharmachem Pößneck	2-ethylhexyl laurate	260418	2
Pharmachem Pößneck	2-ethylhexyl laurate	290317	1
Pharmachem./Allianc.H.	2-ethylhexyl laurate	50414	1
Pharmachem.Pößneck/Phönix	2-ethylhexyl laurate	260418	1
Pharmachem.Pößneck	2-ethylhexyl laurate	10515	3
Pharmachem/ Gehe 28.03.19	2-ethylhexyl laurate	260418	1
Pharmachem/ Gehe	2-ethylhexyl laurate	1501202	1
Pharmachem/ Noweda	2-ethylhexyl laurate	10616	2
Pharmachem/ Noweda	2-ethylhexyl laurate	130312	1
Pharmachem/ Noweda	2-ethylhexyl laurate	50414	1
Pharmachem/ Sanacorp	2-ethylhexyl laurate	10515	1
Pharmachem/ Sanacorp	2-ethylhexyl laurate	130312	1
Pharmachem/ Sanacorp	2-ethylhexyl laurate	50414	1
Pharmachem/AHD	2-ethylhexyl laurate	10213	4
Pharmachem/AHD	2-ethylhexyl laurate	1812202	1
Pharmachem/AHD	2-ethylhexyl laurate	2304193	1
Pharmachem/Alliance	2-ethylhexyl laurate	260418	2
Pharmachem/Gehe/14.04.21	2-ethylhexyl laurate	1501202	1
Pharmachem/Gehe	2-ethylhexyl laurate	131111	1
Pharmachem/Gehe	2-ethylhexyl laurate	1501201	1
pharmachem/gehe	2-ethylhexyl laurate	1501202	1
Pharmachem/gehe	2-ethylhexyl laurate	1812203	1
Pharmachem/Krieger	2-ethylhexyl laurate	1812202	1
Pharmachem/Noweda	2-ethylhexyl laurate	10616	1
Pharmachem/Noweda	2-ethylhexyl laurate	131111	2
Pharmachem/Noweda	2-ethylhexyl laurate	2304191	1
Pharmachem/Noweda	2-ethylhexyl laurate	2304195	1
Pharmachem/Noweda	2-ethylhexyl laurate	290317	1
Pharmachem/Phoenix	2-ethylhexyl laurate	290317	1
Pharmachem/Phönix	2-ethylhexyl laurate	10213	1
Pharmachem/Phönix	2-ethylhexyl laurate	10616	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem/Phönix	2-ethylhexyl laurate	260418	1
Pharmachem/Phönix	2-ethylhexyl laurate	290317	1
Pharmachem/Sanacorp	2-ethylhexyl laurate	10515	5
Pharmachem/Sanacorp	2-ethylhexyl laurate	10616	2
Pharmachem/Sanacorp	2-ethylhexyl laurate	2304195	1
Pharmachem/Sanacorp	2-ethylhexyl laurate	260418	2
Pharmachem/Sanacorp	2-ethylhexyl laurate	290317	1
Pharmachem/Sanacorp	2-ethylhexyl laurate	50414	6
Pharmachem	2-ethylhexyl laurate	10515	6
Pharmachem	2-ethylhexyl laurate	10616	5
Pharmachem	2-ethylhexyl laurate	131111	2
Pharmachem	2-ethylhexyl laurate	1501205	1
Pharmachem	2-ethylhexyl laurate	1812202	1
Pharmachem	2-ethylhexyl laurate	2304193	1
Pharmachem	2-ethylhexyl laurate	260418	4
Pharmachem	2-ethylhexyl laurate	290317	4
Pharmachem	2-ethylhexyl laurate	50414	6
PharmaChem	2-ethylhexyl laurate	50414	2
Pharmachem	2-ethylhexyl laurate	903221	1
pharmachemie /phönix	2-ethylhexyl laurate	260418	1
Pharmachemie GmbH&co.KG	2-ethylhexyl laurate	290317	1
Pharmachen GmbH/Sanacorp	2-ethylhexyl laurate	1501201	1
Pharmachen GmbH	2-ethylhexyl laurate	1501201	1
Pharmachen/Gehe	2-ethylhexyl laurate	2304195	1
Pharmachen/Sanacorp	2-ethylhexyl laurate	1812204	1
Pharmamacher/Noweda	2-ethylhexyl laurate	260418	2
Pharmamchem/Sanacorp	2-ethylhexyl laurate	260418	2
Phoenix	2-ethylhexyl laurate	148-8013010616	1
Phoenix	2-ethylhexyl laurate	18225901	1
Phönix / Pharmachem	2-ethylhexyl laurate	10616	1
Phönix Gotha	2-ethylhexyl laurate	10213	1
Phönix Gotha	2-ethylhexyl laurate	131111	1
phönix Pharmochem	2-ethylhexyl laurate	290317	1
Phönix/Pharmachem Pößneck	2-ethylhexyl laurate	290317	1
Phönix	2-ethylhexyl laurate	10616	1
Phönix	2-ethylhexyl laurate	18019405	1
Phönix	2-ethylhexyl laurate	191241001	1
Phönix	2-ethylhexyl laurate	20002646001	1
PHÖNIX	2-ethylhexyl laurate	20002646001	1
Phönix	2-ethylhexyl laurate	290317	1
PKH GmbH / Phönix	2-ethylhexyl laurate	148-8013011120	1
PKH GmbH Halle/ AHD	2-ethylhexyl laurate	148-8015010319	1
pkh gmbh/Noweda	2-ethylhexyl laurate	1488013010218	1
PKH GmbH	2-ethylhexyl laurate	148-8013010218	1
PKH GmbH	2-ethylhexyl laurate	148-8013010719	1
PKH GmbH	2-ethylhexyl laurate	148-8015010319	2
PKH Halle,Anzag	2-ethylhexyl laurate	148-8013010616	1
PKH Halle/Sanacorp	2-ethylhexyl laurate	8013120913	1
Röntgen	2-ethylhexyl laurate	18121802	1
Röntgen	2-ethylhexyl laurate	19124104	2
Sanacorp /Pharmachem	2-ethylhexyl laurate	2304191	2
Sanacorp/Pharmachem	2-ethylhexyl laurate	1501201	1
Sanacorp/Pharmachem	2-ethylhexyl laurate	260418	1
Sanacorp/Pharmachem	2-ethylhexyl laurate	290317	2
Sanacorp	2-ethylhexyl laurate	19124104	1
THC Noweda	2-ethylhexyl laurate	18225901	1

- 296 598 spectra from 1324 *Apo-Ident* customers from a total of 52 860 batches from a further

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *2-ethylhexyl laurate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *2-ethylhexyl laurate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	290	0	68 209
Type B	0	160	0	111 153
Type C	0	855	5	296 598

The substance/substance group *2-ethylhexyl laurate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.9310 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6875 %)	99.4186 % (> 99.0698 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *2-ethylhexyl laurate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Squalane	8.20	72.22
Triglycerides, medium-chain	16.02	–
Wool fat	17.01	–
Hydrophobic base gel DAC	24.61	–
Emulsifying hydrophobic base gel DAC	26.47	–
Camphor ointment	31.06	–
Softisan® 649	31.54	–
Soy lecithin, liquid	32.51	–
Laurel oil	33.07	–
Wheatgerm oil, refined	33.56	–
Rapeseed oil, refined	33.76	–
Peanut oil, refined	35.22	–

continued on the next page

continued from previous page

Substanz	Distance in main model	Distance in second-stage model
Grape seed oil, refined	35.39	–
Shea butter, refined	35.72	–
Olive oil, native	36.05	–
Apricot kernel oil, refined	36.20	–
Avocado oil, refined	36.62	–
Paraffin, light liquid	36.73	–
Corn oil, refined	37.44	–
Sesame oil, refined	37.81	–
Soy oil, refined	37.86	–
Pasta Cordes®	38.32	–
Isopropyl myristate	39.46	–
Isopropyl palmitate	39.59	–
Sorbitan trioleate	40.29	–
Decyl oleate	40.89	–
Petroleum oil, not for internal use	41.62	–
Pumpkin seed oil, pressed	42.29	–
Sunflower oil, refined	43.07	–
Guaiazulene 25%, water-soluble	43.15	–
Hydrophilic ointment DAB	46.22	–
Triglycerol diisostearate	49.74	–
Borage oil, refined, stabilised	51.68	–
⋮	⋮	⋮
Wool alcohol cream SR	>50	34.59
Base cream DAC	>50	43.51
Eucerin® cum Aqua	>50	51.48
Non-ionic hydrophil ointment	>50	54.66
Wool alcohol cream DAB	>50	68.10
Lanette® ointment (conserved)	>50	91.94

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *2-ethylhexyl laurate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31373	31878	2.09	10.29
31507	31878	2.51	9.71
31878	31878	0.00	10.08
33086	33086	0.00	9.38
33087	33087	0.00	10.26
35849	31878	3.68	9.70

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Acetic acid 30%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30487-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Acetic acid 30%; Acidum aceticum dilutum 30%

Special notes

When selecting the *Acetic acid 30%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Acetic acid 30%	3	2	21

Second-stage model

For differentiation of the substance/substance group *Acetic acid 30%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Acetic acid 30%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Acetic acid 30%	12376101	31131	40	20130107
Caelo	Acetic acid 30%	12376101	31318	60	20130107
Caelo	Acetic acid 30%	16079301	33426	40	1801528
Caelo	Acetic acid 30%	172744	33889	40	20171027*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 180 spectra of 4 reference samples from the substance/substance group *Acetic acid 30%*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 319 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Acetic acid 30%*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Acetic acid 30%	18123201	34236	40
Caelo	Acetic acid 30%	191085	34632	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 279 spectra from 192 *Apo-Ident* customers from 24 batches from the substance/substance group *Acetic acid 30%*.
- Among them are spectra of independent samples from 21 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Allianz Healthcare	Acetic acid 30%	18123201	1
Bombastus	Acetic acid 30%	16079301	1
Caelo	Acetic acid 30%	11271701	4
Caelo	Acetic acid 30%	12376101	14
Caelo	Acetic acid 30%	12376102	2
Caelo	Acetic acid 30%	14058001	3
Caelo	Acetic acid 30%	1408501	1
Caelo	Acetic acid 30%	14208501	32
Caelo	Acetic acid 30%	1428501	1
Caelo	Acetic acid 30%	16049301	1
Caelo	Acetic acid 30%	16076101	1
Caelo	Acetic acid 30%	16079101	3
Caelo	Acetic acid 30%	16079301	54
Caelo	Acetic acid 30%	17274401	6
Caelo	Acetic acid 30%	1727441	1
Caelo	Acetic acid 30%	1812301	2
Caelo	Acetic acid 30%	18123201	74
Caelo	Acetic acid 30%	19108501	6
Caelo	Acetic acid 30%	192812002	5
Caelo	Acetic acid 30%	19281202	1
Caelo	Acetic acid 30%	2000341001	1
Caelo	Acetic acid 30%	20003461001	21
Caelo	Acetic acid 30%	2003461001	1
Caesar & Loretz GmbH/AEP	Acetic acid 30%	18123201	1
Caesar & Loretz GmbH'/GÖ	Acetic acid 30%	18123201	1
Caesar & Loretz GmbH/Kehr	Acetic acid 30%	18123201	1
Caesar & Loretz GmbH/Ph...	Acetic acid 30%	20003461001	1
Caesar & Loretz GmbH	Acetic acid 30%	14208501	1
Caesar & Loretz GmbH	Acetic acid 30%	18123201	2
Caesar & Loretz GmbH'	Acetic acid 30%	18123201	7
Caesar & Loretz GmbH	Acetic acid 30%	20003461001	5
Caesar & Loretz Hilden	Acetic acid 30%	18123201	1
Caesar & Loretz/Geilenk...	Acetic acid 30%	18123201	1
Caesar&Loretz	Acetic acid 30%	16079301	1
Cealo/Noweda	Acetic acid 30%	16079301	4
E Plus	Acetic acid 30%	18123201	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Acetic acid 30%	16079301	1
GEHE am 21.05.2014	Acetic acid 30%	12376101	1
GEHE	Acetic acid 30%	18123201	1
L12	Acetic acid 30%	16079301	1
Labor	Acetic acid 30%	Z578066045	1
Noweda	Acetic acid 30%	18123201	1
Phoenix	Acetic acid 30%	11271702	1
Phoenix	Acetic acid 30%	20003461001	3
Phönix	Acetic acid 30%		1
Phönix	Acetic acid 30%	16079301	3
Phönix	Acetic acid 30%	18123201	1
Sanacorp	Acetic acid 30%	18123201	1

- 297 179 spectra from 1324 *Apo-Ident* customers from a total of 52 964 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Acetic acid 30%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Acetic acid 30%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	180	0	68 319
Type B	0	80	0	111 233
Type C	0	264	15	297 179

The substance/substance group *Acetic acid 30%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.6667 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6875 %)	94.6237 % (> 93.5484 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Acetic acid 30%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Substance	Distance in main model	Distance in second-stage model
Hydrophilic base emulsion (NRF p.25)	31.10	–
Hydrated liniment SR/DAC (NRF p.40)	31.25	–
Dextrorotary lactic acid 20%	32.72	–
Non-ionic hydrous liniment SR/DAC (NRF…	37.87	–
Hydrophilic cream, non-ionic SR (NRF p…	45.43	–
Glycolic acid 70%	45.47	–
Aluminium acetotartrate solution	48.31	–
Hydrophilic cream, non-ionic without p…	50.42	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Acetic acid 30%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31131	33889	7.28	35.31
31318	33889	3.29	32.17
33426	33426	0.00	31.10
33889	33889	0.00	32.02

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Acetic acid 99%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30486-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Acetic acid 99%; Acidum aceticum glaciale

Special notes

When selecting the *Acetic acid 99%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Acetic acid 99%	5	3	60

Second-stage model

For differentiation of the substance/substance group *Acetic acid 99%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Acetic acid 99%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Acetic acid 99%	13013101	31132	39	20130114
Caelo	Acetic acid 99%	13013101	31319	60	20130114
Caelo	Acetic acid 99%	16238401	33423	40	1801527
Caelo	Acetic acid 99%	182767	34473	40	20181105*
Caelo	Acetic acid 99%	20003519	35256	40	20201120*
Hedinger	Acetic acid 99%	223083B	33428	40	20160727
Hedinger	Acetic acid 99%	223083B	33429	40	20160727

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 299 spectra of 7 reference samples from the substance/substance group *Acetic acid 99%*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 200 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Acetic acid 99%*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Acetic acid 99%	11186701	30486	40
Caelo	Acetic acid 99%	191119	34474	40
Caelo	Acetic acid 99%	191120	34475	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 342 spectra from 248 *Apo-Ident* customers from 63 batches from the substance/substance group *Acetic acid 99%*.

- Among them are spectra of independent samples from 57 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
ACM	Acetic acid 99%	KNC1163J14	1
Anzag	Acetic acid 99%	223088B	1
Anzag	Acetic acid 99%	7002101	1
Anzag	Acetic acid 99%	7004111	1
Bombastus	Acetic acid 99%	7006091	1
Caelo	Acetic acid 99%	10135706	1
Caelo	Acetic acid 99%	11186701	1
Caelo	Acetic acid 99%	11349901	7
Caelo	Acetic acid 99%	1186701	1
Caelo	Acetic acid 99%	13013101	7
Caelo	Acetic acid 99%	13218301	24
Caelo	Acetic acid 99%	13218401	1
Caelo	Acetic acid 99%	13218501	2
Caelo	Acetic acid 99%	15280701	13
Caelo	Acetic acid 99%	15280702	6
Caelo	Acetic acid 99%	16238401	32
Caelo	Acetic acid 99%	17200401	30
Caelo	Acetic acid 99%	18031701	1
Caelo	Acetic acid 99%	18276701	35
Caelo	Acetic acid 99%	19111901	20
Caelo	Acetic acid 99%	19112001	4
Caelo	Acetic acid 99%	1911901	4
Caelo	Acetic acid 99%	20003521001	7
Caelo	Acetic acid 99%	5117A-01010	1
Caelo	Acetic acid 99%	7002101	1
Caesar & Loretz GmbH / ...	Acetic acid 99%	15280701	1
Caesar & Loretz GmbH/Je...	Acetic acid 99%	20003521001	1
Caesar & Loretz GmbH/No...	Acetic acid 99%	117M-01010	1
Caesar & Loretz GmbH'	Acetic acid 99%	18276701	2
Caesar & Loretz GmbH	Acetic acid 99%	19111901	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Acetic acid 99%	20003521001	3
CAESAR & LORETZ GMBH	Acetic acid 99%	20003521001	1
Caesar Loretz	Acetic acid 99%	19111901	1
Cealo/ AHD	Acetic acid 99%	18276701	1
Devisa/Noweda	Acetic acid 99%	13218301	1
EuRho/Noweda	Acetic acid 99%	16238401	1
Euro OTC	Acetic acid 99%	7006091	1
Fagron	Acetic acid 99%	13218301	1
Fiebig	Acetic acid 99%	18276701	1
Fischar / Anzag	Acetic acid 99%	7002031	1
Fischar / Gehe	Acetic acid 99%	7006091	3
Fischar / Noweda	Acetic acid 99%	7006091	1
Fischar / Phönix	Acetic acid 99%	7006091	1
Fischar GmbH & Co.KG	Acetic acid 99%	7008091	1
Fischar Otto / Sanacorp	Acetic acid 99%	7005091	1
Fischar, Saarbrücken	Acetic acid 99%	7008091	1
Fischar/ AHD	Acetic acid 99%	7008091	1
Fischar/ Phoenix	Acetic acid 99%	7000071	1
Fischar/Alkun	Acetic acid 99%	7005091	1
Fischar/Ebert	Acetic acid 99%	7006091	1
Fischar/Gehe	Acetic acid 99%	7002031	1
Fischar/Gehe	Acetic acid 99%	7003053	1
Fischar/Gehe	Acetic acid 99%	7006091	1
Fischar/Gehe	Acetic acid 99%	7009082	1
Fischar/Jenne	Acetic acid 99%	211019(7009082)	1
Fischar/Jenne	Acetic acid 99%	23(7006091)	1
Fischar/Kehr	Acetic acid 99%	7005091	1
Fischar/Noweda	Acetic acid 99%	7004051	2
Fischar/Noweda	Acetic acid 99%	7006091	3
Fischar/Phoenix	Acetic acid 99%	7002101	1
Fischar/Phoenix	Acetic acid 99%	7006091	1
Fischar/Phoenix	Acetic acid 99%	7008091	2
Fischar/Phönix	Acetic acid 99%	70006091	1
Fischar/Phönix	Acetic acid 99%	7006091	5
Fischar/Phönix	Acetic acid 99%	7008091	1
Fischar/Sanacorp	Acetic acid 99%	7006091	4
fischar	Acetic acid 99%	180406E/7006091	1
Fischar	Acetic acid 99%	7003053	1
Fischar	Acetic acid 99%	7004051	1
Fischar	Acetic acid 99%	7004111	1
Fischar	Acetic acid 99%	7005091	2
Fischar	Acetic acid 99%	7006091	5
fischar	Acetic acid 99%	7008091	1
Fischar	Acetic acid 99%	7008091	2
fischar	Acetic acid 99%	7009082	1
Fischar	Acetic acid 99%	7009082	2
Fischar	Acetic acid 99%	90212/1	1
Fischer/Phönix	Acetic acid 99%	7004111	1
Fischer/Phönix	Acetic acid 99%	7006091	1
Fischer/Sanacorp	Acetic acid 99%	7006091	1
Fischer	Acetic acid 99%	7005091	1
Fishar/AHD	Acetic acid 99%	7004111	1
fishar/Gehe	Acetic acid 99%	7009082	1
Fishar/Phoenix	Acetic acid 99%	7002101	1
Gehe amax	Acetic acid 99%	19111901	1
Gehe/Hedinger	Acetic acid 99%	223088B	1
Gehe	Acetic acid 99%	15280701	1
GEHE	Acetic acid 99%	17200401	1
Gehe	Acetic acid 99%	18276701	1
GEHE	Acetic acid 99%	7006091	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hänseler	Acetic acid 99%		3
Hänseler	Acetic acid 99%	2019030535	1
Hedinger / Kehr	Acetic acid 99%	223079B	1
Hedinger/AHD	Acetic acid 99%	2230128	1
Hedinger/Gehe	Acetic acid 99%	223007B	1
Hedinger/Jenne	Acetic acid 99%	223044B	1
Hedinger/NOWEDA	Acetic acid 99%	223012B	1
Hedinger/Noweda	Acetic acid 99%	223134B	1
Hedinger/Sanacorp	Acetic acid 99%	223134B	2
Hedinger	Acetic acid 99%	223018B	1
Hedinger	Acetic acid 99%	223052B	2
Hedinger	Acetic acid 99%	223055B	1
Hedinger	Acetic acid 99%	223066b	1
Hedinger	Acetic acid 99%	223079B	1
Hedinger	Acetic acid 99%	223083B	2
Hedinger	Acetic acid 99%	223104B	1
Hedinger	Acetic acid 99%	223109B	1
Hedinger	Acetic acid 99%	223134B	1
Hedinger	Acetic acid 99%	5113M-01010	1
Merck	Acetic acid 99%	K49316056729	1
Merck	Acetic acid 99%	K51835456938	1
Noweda/Fischar	Acetic acid 99%	7005091	1
Noweda	Acetic acid 99%	7006091	1
Otto Fischar GmbH	Acetic acid 99%	7003053	1
Otto Fischar/ Phoenix	Acetic acid 99%	7002101	1
Otto Fischar/Phönix	Acetic acid 99%	7007081	1
otto fischar	Acetic acid 99%	7004111	1
Otto Fischbar GmbH	Acetic acid 99%	7006091	1
Otto Fischer/Noweda	Acetic acid 99%	70006091	1
Otto Fischer	Acetic acid 99%	7006091	1
ph.eur /phönix	Acetic acid 99%	7002101	1
Phoenix	Acetic acid 99%	7003053	1
PHÖNIX	Acetic acid 99%	18276701	1
Phönix	Acetic acid 99%	2230888	1
Roth	Acetic acid 99%	200296679	1
Roth	Acetic acid 99%	348274101	1
Sanacorp/ Lamotte	Acetic acid 99%	17200401	1
Sanacorp/ Noweda	Acetic acid 99%	14072501	1
Sanacorp	Acetic acid 99%	11349901	1
Sanacorp	Acetic acid 99%	13218301	1
Sanacorp	Acetic acid 99%	7006091	1
Spangropharm	Acetic acid 99%	2231098	1
Wacker Chemie AG	Acetic acid 99%	223079B	1

- 297 116 spectra from 1324 *Apo-Ident* customers from a total of 52 925 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Acetic acid 99%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Acetic acid 99%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following

table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	299	0	68 200
Type B	0	120	0	111 193
Type C	0	341	1	297 116

The substance/substance group *Acetic acid 99%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.9933 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.7076 % (> 98.8304 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Acetic acid 99%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Salicylic acid 50% (paraffin)	39.08	–
Permethrin 25% solution	152.89	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Acetic acid 99%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31132	34473	4.74	99.88
31319	35256	4.00	92.83
33423	33423	0.00	94.26
33428	33423	1.85	96.30

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
33429	33423	1.81	96.18
34473	34473	0.00	99.12
35256	35256	0.00	94.78

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Acetone**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30539-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Acetone; Acetonum

Special notes

When selecting the *Acetone* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Acetone	4	3	316

Second-stage model

For differentiation of the substance/substance group *Acetone* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Acetone*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Hedinger	Acetone	011215B	31575	59	1505477
Hedinger	Acetone	011242B	31793	60	20150703
Hedinger	Acetone	011361B	35851	50	20200706
Otto Fischar	Acetone	4205031	31796	60	20150305

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 229 spectra of 4 reference samples from the substance/substance group *Acetone*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 270 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Acetone*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Hedinger	Acetone	011236B	32920	40
Hedinger	Acetone	011297B	33946	40
Otto Fischar	Acetone	4201051	35850	50

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1055 spectra from 420 *Apo-Ident* customers from 323 batches from the substance/substance group *Acetone*.

- Among them are spectra of independent samples from 311 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Acetone	281013A	1
01.09.20/AHD/Hedinger	Acetone	11349B	1
A.Hedinger/ Sanacorp	Acetone	11345B	1
A.Hedinger/Sana	Acetone	11331B	1
Aallianc. Healthc. / Fi...	Acetone	4208041	1
ACM	Acetone	KNC0783J13	2
ACM	Acetone	KNC1133J14	1
AHD / Hedinger	Acetone	11203B	1
AHD 29.10.14 EK 6,70	Acetone	11210B	1
AHD Hedinger	Acetone	11260B	1
AHD/18.11.14/Hedinger	Acetone	112158	1
AHD/Hedinger	Acetone	11302B	1
AHD/Hedinger	Acetone	11323B	1
AHD	Acetone	11319B	1
Alliance Health 04.06.2...	Acetone	11199B	1
Alliance health 12.01.15	Acetone	11218B	1
Alliance Healthcare/Hed...	Acetone	11224B	1
Anzag/ Hedinger	Acetone	11158B	1
Anzag/ Otto Fischar Gmb...	Acetone	4204032	1
Anzag/Dr. Seeger	Acetone	111488	1
Anzag/Seeger	Acetone	11185B	1
Anzag	Acetone	11173B	1
Apoth.E.Bartel / Noweda	Acetone	11173B	1
Apoth.E.Bartel	Acetone	11283B	1
Aug. Hedinger GmbH & Co...	Acetone	11358B	1
Barthel	Acetone	11177B	1
Caelo	Acetone		1
Caelo	Acetone	1017051	1
Caelo	Acetone	1017082	1
Caelo	Acetone	1018091	1
Caelo	Acetone	1018121	1
Caelo	Acetone	1019082	1
Caelo	Acetone	11152b	1
Caelo	Acetone	11171B	2
Caelo	Acetone	111738	1
Caelo	Acetone	11185B	2
Caelo	Acetone	111938	1
Caelo	Acetone	11210B	1
Caelo	Acetone	11215B	2
Caelo	Acetone	11218B	1
Caelo	Acetone	11224B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Acetone	11227B	1
Caelo	Acetone	11234B	2
Caelo	Acetone	11236B	1
Caelo	Acetone	11247B	2
Caelo	Acetone	11250B	1
Caelo	Acetone	11252B	1
Caelo	Acetone	11260B	1
Caelo	Acetone	11263B	3
Caelo	Acetone	11271B	2
Caelo	Acetone	112828	1
Caelo	Acetone	11282B	1
Caelo	Acetone	11283B	1
Caelo	Acetone	112868	2
Caelo	Acetone	11288b	1
Caelo	Acetone	112898	1
Caelo	Acetone	11289B	3
Caelo	Acetone	11297B	3
Caelo	Acetone	11302B	3
Caelo	Acetone	11308B	2
Caelo	Acetone	11319B	2
Caelo	Acetone	11328B	1
Caelo	Acetone	11349B	1
Caelo	Acetone	123456	1
Caelo	Acetone	4200092	1
Caelo	Acetone	4204031	1
Caelo	Acetone	4205062	2
Caelo	Acetone	420571	1
Caelo	Acetone	4206012	1
Caelo	Acetone	4207102	1
Caelo	Acetone	4208061	2
Caelo	Acetone	4208062	4
Caelo	Acetone	420891	1
Caelo	Acetone	59/AKD1	1
Caelo	Acetone	606001008	1
Caesar & Loretz GmbH Hi...	Acetone	420511	2
Caesar & Loretz GmbH Hi...	Acetone	4205111	1
Delta	Acetone	4207013	1
Dextro	Acetone	5209-126	1
Dextro	Acetone	52509-123	1
Dextro	Acetone	52509-130	1
Dr.Seeger GmbH	Acetone	11199B	1
Dr.Seeger/Jenne	Acetone	11188B	1
Ebert KKH 29.09.2016	Acetone	4206042	1
Ebert/Fischar	Acetone	4207101	1
Euro OTC	Acetone	11193B	1
Euro OTC	Acetone	112618	1
Euro OTC	Acetone	11297B	1
Euro OTC	Acetone	12001	1
Euro OTC	Acetone	4204032	1
Euro OTC	Acetone	4208021	2
Fagron	Acetone	1019031	1
Fagron	Acetone	4207012	1
Fagron	Acetone	bfdvg	1
Fiebig/Hedinger	Acetone	11333B	1
Fischa/gehe	Acetone	4202021	1
Fischar / Alliance Hea...	Acetone	1019101	1
fischar / ahd	Acetone	1017092	2
Fischar / Alliance Heal...	Acetone	4206012	1
Fischar / Alliance Heal...	Acetone	4206071	1
Fischar / Alliance Heal...	Acetone	4209092	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar / Gehe	Acetone		1
Fischar / Gehe	Acetone	1015062	1
Fischar / Gehe	Acetone	4207013	1
Fischar / Geilenkirchen	Acetone	1010012	1
Fischar / Sanacorp	Acetone	4207041	1
Fischar Anzag	Acetone	1(4207102)	1
Fischar Anzag	Acetone	90205/2	1
Fischar GmbH/Krieger	Acetone	4206071	1
Fischar GmbH	Acetone	1016101	1
Fischar GmbH	Acetone	1018052	1
Fischar GmbH	Acetone	11341B	1
Fischar GmbH	Acetone	4200032	1
Fischar/ Anzag	Acetone	2(4208084)	1
Fischar/ Krieger	Acetone	4208021	1
Fischar/ Krieger	Acetone	4208092	1
Fischar/ Now	Acetone	4203111	1
Fischar/ Noweda	Acetone	1018011	1
Fischar/ Noweda	Acetone	1018021	1
Fischar/ Noweda	Acetone	1018101	1
Fischar/ Noweda	Acetone	4201051	1
Fischar/ Noweda	Acetone	4208041	1
Fischar/ Noweda	Acetone	4209052	1
Fischar/ Phönix	Acetone	4207012	1
fischar/AHD	Acetone	10180315628	1
Fischar/Alliance Heathc...	Acetone	4206011	1
Fischar/E&J	Acetone	4206071	1
Fischar/E&J	Acetone	4207071	1
Fischar/Fiebig	Acetone	4207012	1
Fischar/Fiebig	Acetone	4207073	1
Fischar/Fiebig	Acetone	4208062	1
Fischar/Gehe	Acetone	1010061	2
Fischar/Gehe	Acetone	1016051	1
Fischar/Gehe	Acetone	1018052	1
Fischar/Gehe	Acetone	4202101	1
Fischar/Gehe	Acetone	4203031	1
Fischar/Gehe	Acetone	4203101	1
Fischar/Gehe	Acetone	4204031	1
Fischar/Gehe	Acetone	4204032	1
Fischar/Gehe	Acetone	4204071	1
Fischar/Gehe	Acetone	4205032	1
Fischar/Gehe	Acetone	4205071	1
Fischar/Gehe	Acetone	4205092	1
fischar/Gehe	Acetone	4206011	1
Fischar/Gehe	Acetone	4207043	1
Fischar/Gehe	Acetone	4208091	1
Fischar/Gehe	Acetone	4209032	1
fischar/gehe	Acetone	4209052	1
Fischar/Gehe	Acetone	4209052	1
Fischar/Jenne	Acetone	1018062	1
Fischar/Jenne	Acetone	11336B	1
Fischar/Jenne	Acetone	4200011	1
Fischar/Jenne	Acetone	4208092	1
Fischar/Kehr	Acetone	4200011	1
Fischar/Kehr	Acetone	4207042	1
Fischar/Kehr	Acetone	4209031	1
Fischar/Novatis	Acetone	1010042	1
Fischar/Noweda	Acetone	1010061	1
Fischar/Noweda	Acetone	1018091	1
Fischar/Noweda	Acetone	1018111	1
Fischar/Noweda	Acetone	4200011	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar/Noweda	Acetone	4200072	2
Fischar/Noweda	Acetone	4200121	1
Fischar/Noweda	Acetone	4203101	1
Fischar/Noweda	Acetone	4205062	1
Fischar/Noweda	Acetone	4206092	1
Fischar/Noweda	Acetone	4207011	1
fischar/Noweda	Acetone	4208091	3
Fischar/Noweda	Acetone	4208121	2
fischar/noweda	Acetone	4209031	1
Fischar/Noweda	Acetone	4209101	2
Fischar/Phoenix	Acetone	4205031	1
Fischar/Phoenix	Acetone	4207013	1
Fischar/Phoenix	Acetone	4208041	3
Fischar/Phoenix	Acetone	4208061	1
Fischar/Phoenix	Acetone	4208092	1
Fischar/Phoenix	Acetone	4209031	1
Fischar/Phoenix	Acetone	4209032	1
Fischar/Phönix	Acetone	1017092	1
Fischar/Phönix	Acetone	1018021	1
Fischar/Phönix	Acetone	1018081	1
Fischar/Phönix	Acetone	1019041	2
Fischar/Phönix	Acetone	11349B	1
Fischar/Phönix	Acetone	1918052	1
Fischar/Phönix	Acetone	4200031	1
Fischar/Phönix	Acetone	4204012	2
Fischar/Phönix	Acetone	4205072	1
Fischar/Phönix	Acetone	4206011	1
Fischar/Phönix	Acetone	4206041	1
Fischar/Phönix	Acetone	4206071	1
Fischar/Phönix	Acetone	4208021	1
Fischar/PX	Acetone	4209102	1
Fischar/Sanacorp	Acetone	1019071	1
fischar/staren	Acetone	4207072	1
Fischar	Acetone	1016041	1
Fischar	Acetone	1016051	1
Fischar	Acetone	1017021	1
Fischar	Acetone	1017032	1
Fischar	Acetone	10170323	1
Fischar	Acetone	1017092	1
Fischar	Acetone	1018052	1
Fischar	Acetone	1018062	2
Fischar	Acetone	1019031	1
Fischar	Acetone	1019051	1
Fischar	Acetone	1019071	1
Fischar	Acetone	1019082	2
Fischar	Acetone	11195B	1
Fischar	Acetone	123456	1
Fischar	Acetone	14101702	1
Fischar	Acetone	16101206	1
Fischar	Acetone	20101803	1
Fischar	Acetone	2051408	1
Fischar	Acetone	22111302	1
Fischar	Acetone	24101803	1
Fischar	Acetone	25101302	1
Fischar	Acetone	27101711	1
Fischar	Acetone	28031301	1
Fischar	Acetone	29061801	1
Fischar	Acetone	30081301	1
Fischar	Acetone	4008978161101	1
Fischar	Acetone	4091513	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar	Acetone	4200011	1
Fischar	Acetone	4200012	1
Fischar	Acetone	4200032	2
Fischar	Acetone	4200072	1
Fischar	Acetone	4200092	1
Fischar	Acetone	420022	1
Fischar	Acetone	4201022	3
Fischar	Acetone	4202061	1
Fischar	Acetone	4202101	1
Fischar	Acetone	4202121	2
Fischar	Acetone	4203032	1
Fischar	Acetone	4203091	1
Fischar	Acetone	4204031	4
Fischar	Acetone	4204032	1
Fischar	Acetone	4204051	1
Fischar	Acetone	4204052	2
Fischar	Acetone	4204072	1
Fischar	Acetone	4205011	1
fischar	Acetone	4205031	1
Fischar	Acetone	4205031	1
Fischar	Acetone	4205061	1
Fischar	Acetone	4205062	2
Fischar	Acetone	4205071	1
Fischar	Acetone	4206011	2
Fischar	Acetone	4206012	3
Fischar	Acetone	4206041	2
Fischar	Acetone	4206071	1
Fischar	Acetone	4207013	2
Fischar	Acetone	4207041	1
Fischar	Acetone	4207042	1
Fischar	Acetone	4207072	1
Fischar	Acetone	4207102	1
fischar	Acetone	4208021	1
Fischar	Acetone	4208021	1
Fischar	Acetone	4208041	1
fischar	Acetone	4208061	1
fischar	Acetone	4208062	1
Fischar	Acetone	4208084	1
fischar	Acetone	4208092	1
Fischar	Acetone	4208092	5
Fischar	Acetone	4208121	1
Fischar	Acetone	4208122	2
Fischar	Acetone	4209031	1
Fischar	Acetone	4209052	1
Fischar	Acetone	4209092	2
Fischar	Acetone	4209101	1
Fischar	Acetone	45204052	1
Fischar	Acetone	5041403	1
Fischar	Acetone	5051704	1
Fischar	Acetone	6021303	1
Fischar	Acetone	7051801	1
Fischar	Acetone	7091706	1
Fischar	Acetone	90110/1	2
Fischar	Acetone	9C205/1	1
Fischbar	Acetone	1016041	1
Fischbar	Acetone	17091206	1
Fischbar	Acetone	2101205	1
Fischbar	Acetone	22091201	1
Fischbar	Acetone	4101302	1
Fischbar	Acetone	4208121	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischer GmbH/Anzag	Acetone	1010111	1
Fischer GmbH/Phönix	Acetone	4207041	1
Fischer/Alliance	Acetone	1018021	1
fischer/Anzag	Acetone	4202061	1
fischer/Anzag	Acetone	4203032	2
Fischer/Fiebig	Acetone	4207102	1
Fischer/Gehe 3.11.15	Acetone	4205062	1
Fischer/Gehe	Acetone	1015041	1
Fischer/Gehe	Acetone	4201051	1
Fischer/Gehe	Acetone	4204091	1
Fischer/Gehe	Acetone	4209031	1
Fischer/Noveda	Acetone	4200071	1
Fischer/Phönix	Acetone	4209052	1
Fischer/Sanacorp	Acetone	420301	1
Fischer	Acetone	1010111	1
fischer	Acetone	1011071	1
Fischer	Acetone	1015081	1
Fischer	Acetone	1016051	1
Fischer	Acetone	1016101	1
Fischer	Acetone	1018031	1
Fischer	Acetone	4201021	1
Fischer	Acetone	4205032	1
fischer	Acetone	4206061	1
Fischer	Acetone	4207102	1
Fischer	Acetone	4209031	1
Fischer	Acetone	A-040613-3	1
fishar Krieger	Acetone	4209092	1
fishar/noweda	Acetone	1019012	2
fishar/Phoenix	Acetone	4208022	2
Gehe / Fischar	Acetone	1017081	1
Gehe/Fischar	Acetone	1019041	1
Gehe/Fischar	Acetone	4207012	1
Gehe/Fischar	Acetone	90110/2	1
Gehe/Hedinger	Acetone	11272B	1
Gehe/Hedinger	Acetone	11277B	1
Gehe	Acetone	112248	1
Gehe	Acetone	11226B	1
Gehe	Acetone	11247B	1
Gehe	Acetone	11256B	1
Gehe	Acetone	11263B	1
GEHE	Acetone	11308B	1
Gehe	Acetone	11319B	1
Gehe	Acetone	11323B	1
GEHE	Acetone	4202052	1
Gehe	Acetone	4203031	2
Gehe	Acetone	4207013	1
Geibo	Acetone	4207041	1
H.Lamotte/Noweda	Acetone	11210B	2
Hänseler	Acetone		4
Hed	Acetone	11203B	2
heddinger	Acetone	11185B	2
Heding./Phoenix	Acetone	11330B	1
Hedinger , Noweda	Acetone	11168B	1
Hedinger , Stuttgart	Acetone	11182B	1
Hedinger / Anzag	Acetone	111323B	1
Hedinger / Anzag	Acetone	11283B	1
Hedinger / Anzag	Acetone	11288B	1
Hedinger / Anzag	Acetone	11336B	1
Hedinger / Noveda	Acetone	11289B	1
Hedinger / Gehe	Acetone	11173B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger / Gehe	Acetone	11282B	1
Hedinger / Gehe	Acetone	11319B	1
Hedinger / Noweda 26.9....	Acetone	11302B	1
Hedinger / Noweda	Acetone	11199B	1
Hedinger / Noweda	Acetone	11203B	1
Hedinger / Noweda	Acetone	11210B	2
Hedinger / Noweda	Acetone	112158	1
Hedinger / Noweda	Acetone	11226B	1
Hedinger / Noweda	Acetone	11319B	1
Hedinger / Noweda	Acetone	11328B	1
Hedinger / Noweda	Acetone	113338	1
Hedinger / Phoenix	Acetone	11195B	1
Hedinger / Phönix	Acetone	11333B	1
Hedinger / Phönix	Acetone	11377B	1
Hedinger / Sanacorp	Acetone	11188B	1
Hedinger / Sanacorp	Acetone	112038	1
Hedinger / Sanacorp	Acetone	11210B	1
Hedinger / Sanacorp	Acetone	112958	1
Hedinger / Sanacorp	Acetone	11333B	1
Hedinger / Sanacorp	Acetone	11336B	1
Hedinger / Sanacorp	Acetone	11341B	1
Hedinger / Sanacorp	Acetone	11348B	1
Hedinger / Sanacorp	Acetone	113778	1
Hedinger / Sanacorp	Acetone	4209102	1
Hedinger /Sana	Acetone	11323B	1
Hedinger AHD 08.06.17 E...	Acetone	11286B	1
Hedinger GmbH & Co. KG	Acetone	112828	2
Hedinger GmbH&Co. KG	Acetone	11349B	1
Hedinger GmbH/Phenix	Acetone	112189B	1
Hedinger GmbH/Phenix	Acetone	11302B	1
Hedinger GmbH/Phenix	Acetone	11308B	1
Hedinger GmbH/Phenix	Acetone	11330B	1
Hedinger GmbH/Phenix	Acetone	11349B	1
Hedinger GmbH	Acetone	11271B	1
Hedinger Jenne	Acetone	11158B	1
Hedinger Jenne	Acetone	11193B	1
Hedinger Noweda 13.7.18...	Acetone	113028	1
Hedinger Phönix	Acetone	112008	1
Hedinger Phönix	Acetone	11308B	1
Hedinger über Phoenix	Acetone	11247B	1
Hedinger, Heiligenwiese...	Acetone	11148B	1
Hedinger, Noweda	Acetone	11163B	1
Hedinger, Noweda	Acetone	11188B	1
Hedinger, Stuttgart	Acetone	11372B	1
Hedinger/ Anzag	Acetone	111588	1
Hedinger/ Fiebig	Acetone	11349B	1
Hedinger/ Gehe	Acetone	11295B	1
Hedinger/ Gehe	Acetone	11308B	1
Hedinger/ Jenne	Acetone	11200B	1
Hedinger/ Noweda	Acetone	11177B	1
Hedinger/ Noweda	Acetone	11187B	1
Hedinger/ NOWEDA	Acetone	11252B	1
Hedinger/ Noweda	Acetone	11283B	1
Hedinger/ Noweda	Acetone	11302B	1
Hedinger/ Phoenix	Acetone	1214M1002	1
Hedinger/ Phönix	Acetone	11341B	3
Hedinger/ Sanacorp	Acetone	11247B	1
Hedinger/ Sanacorp	Acetone	11336B	1
Hedinger/ Sanacorp	Acetone	11345B	3
Hedinger/ VDL	Acetone	111328B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/ VDL	Acetone	11277B	1
Hedinger/ VDL	Acetone	11328B	1
Hedinger/	Acetone	11333B	1
Hedinger/AHD	Acetone	110958A2010	1
Hedinger/AHD	Acetone	11158B	1
Hedinger/AHD	Acetone	11227B	1
Hedinger/AHD	Acetone	11282B	1
Hedinger/AHD	Acetone	11331B	1
Hedinger/AHD	Acetone	11333B	1
Hedinger/AHD	Acetone	11349B	1
Hedinger/Aliiance	Acetone	11297B	1
Hedinger/Alliance Haelt...	Acetone	11277B	1
Hedinger/Alliance	Acetone	112958	1
Hedinger/Alliance	Acetone	11323B	1
Hedinger/Alliance	Acetone	11328B	1
Hedinger/Alliance	Acetone	11333B	2
Hedinger/Alliance11	Acetone	11341B	1
Hedinger/Anzag	Acetone	11173B	1
Hedinger/Anzag	Acetone	11361B	1
Hedinger/Anzg	Acetone	11256B	1
Hedinger/Fiebig	Acetone	11241	1
Hedinger/Fiebig	Acetone	11361B	1
Hedinger/Gehe	Acetone		1
Hedinger/Gehe	Acetone	11158B	1
Hedinger/Gehe	Acetone	11177B	1
Hedinger/Gehe	Acetone	11210B	1
Hedinger/Gehe	Acetone	11227B	1
Hedinger/Gehe	Acetone	11333B	1
Hedinger/GEHE	Acetone	11372B	1
Hedinger/Gehe	Acetone	311092	1
Hedinger/Geibo	Acetone	11185B	1
Hedinger/Geibo	Acetone	11282B	1
Hedinger/Geibo	Acetone	11336B	1
Hedinger/Jenne 24.06.20...	Acetone	11341B	1
Hedinger/Jenne	Acetone	11358B	1
Hedinger/Kehr	Acetone	11227B	1
Hedinger/Krieger	Acetone	11308B	2
Hedinger/Krieger	Acetone	11341B	1
Hedinger/Now	Acetone	11289B	1
Hedinger/Noweda	Acetone	111528	1
Hedinger/Noweda	Acetone	11168B	1
Hedinger/Noweda	Acetone	111858	1
Hedinger/Noweda	Acetone	11210B	1
Hedinger/Noweda	Acetone	11224B	1
Hedinger/Noweda	Acetone	11226B	2
Hedinger/Noweda	Acetone	11232B	2
Hedinger/Noweda	Acetone	11252B	1
Hedinger/Noweda	Acetone	11263B	1
Hedinger/Noweda	Acetone	11271B	2
Hedinger/Noweda	Acetone	11272B	1
HEDINGER/NOWEDA	Acetone	11283B	1
Hedinger/Noweda	Acetone	112868	1
Hedinger/Noweda	Acetone	11308B	1
Hedinger/Noweda	Acetone	11322B	2
Hedinger/Noweda	Acetone	11323B	1
Hedinger/Noweda	Acetone	11333B	3
HEDINGER/NOWEDA	Acetone	11333B	1
Hedinger/Noweda	Acetone	11336B	5
Hedinger/Noweda	Acetone	11341B	1
Hedinger/Noweda	Acetone	11349B	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Noweda	Acetone	11358B	2
Hedinger/Otto	Acetone	111738	1
Hedinger/Otto	Acetone	11193B	1
Hedinger/Phoenix	Acetone	11185B	1
Hedinger/Phoenix	Acetone	11187B	1
Hedinger/Phoenix	Acetone	11215B	1
Hedinger/Phoenix	Acetone	11224B	1
Hedinger/Phoenix	Acetone	11232B	1
Hedinger/Phoenix	Acetone	11260B	1
Hedinger/Phoenix	Acetone	11272B	1
Hedinger/Phoenix	Acetone	11278B	1
Hedinger/Phoenix	Acetone	11283B	1
Hedinger/Phoenix	Acetone	112893	1
Hedinger/Phoenix	Acetone	11289B	1
Hedinger/Phoenix	Acetone	112958	1
Hedinger/Phoenix	Acetone	11302B	1
Hedinger/Phoenix	Acetone	11308B	1
Hedinger/Phoenix	Acetone	11341B	1
Hedinger/Phoenix	Acetone	11361B	1
Hedinger/Phönix	Acetone	11168B	1
Hedinger/Phönix	Acetone	11173B	2
Hedinger/Phönix	Acetone	11182B	1
Hedinger/Phönix	Acetone	11195B	1
Hedinger/Phönix	Acetone	11224B	1
Hedinger/Phönix	Acetone	11232B	1
Hedinger/Phönix	Acetone	11234B	1
Hedinger/Phönix	Acetone	11250B	1
Hedinger/Phönix	Acetone	11260B	1
HEDINGER/Phönix	Acetone	11260B	1
Hedinger/Phönix	Acetone	11278B	1
Hedinger/Phönix	Acetone	11282B	1
Hedinger/Phönix	Acetone	112838	1
Hedinger/Phönix	Acetone	11286B	1
Hedinger/Phönix	Acetone	11289B	2
Hedinger/Phönix	Acetone	112958	1
Hedinger/Phönix	Acetone	11302B	3
Hedinger/Phönix	Acetone	11319B	2
Hedinger/Phönix	Acetone	11323B	1
Hedinger/Phönix	Acetone	11328B	2
Hedinger/Phönix	Acetone	11341B	1
Hedinger/Phönix	Acetone	11349B	1
Hedinger/Phönix	Acetone	113588	1
Hedinger/Phönix	Acetone	11358B	1
Hedinger/Phönix	Acetone	11361B	1
Hedinger/Phönix	Acetone	11372B	4
Hedinger/phönix	Acetone	140131/3	1
Hedinger/Sana	Acetone	11328B	1
Hedinger/Sanacorp 27.09...	Acetone	11372B	1
Hedinger/Sanacorp	Acetone	11185B	2
Hedinger/Sanacorp	Acetone	11187B	2
Hedinger/Sanacorp	Acetone	11200B	1
Hedinger/Sanacorp	Acetone	11210B	1
Hedinger/Sanacorp	Acetone	11215B	1
Hedinger/Sanacorp	Acetone	11232B	1
Hedinger/Sanacorp	Acetone	112332B	1
Hedinger/Sanacorp	Acetone	11234B	2
Hedinger/Sanacorp	Acetone	112788	1
Hedinger/Sanacorp	Acetone	11302B	1
Hedinger/Sanacorp	Acetone	11322B	2
Hedinger/Sanacorp	Acetone	11349B	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Sanacorp	Acetone	11372B	2
Hedinger/Spangro	Acetone	11295B	1
Hedinger/V.d.L.	Acetone	11199B	1
Hedinger	Acetone	10091304	1
Hedinger	Acetone	11065B	1
Hedinger	Acetone	11134B	1
Hedinger	Acetone	11139B	1
Hedinger	Acetone	11143B	3
Hedinger	Acetone	11148B	3
Hedinger	Acetone	11152B	1
Hedinger	Acetone	11158B	3
Hedinger	Acetone	11163B	1
Hedinger	Acetone	111688	1
Hedinger	Acetone	11168B	1
Hedinger	Acetone	111738	2
Hedinger	Acetone	11173B	13
Hedinger	Acetone	11177B	2
Hedinger	Acetone	111828	1
Hedinger	Acetone	11182B	2
Hedinger	Acetone	11187B	2
Hedinger	Acetone	111888	1
Hedinger	Acetone	11188B	4
Hedinger	Acetone	111938	1
Hedinger	Acetone	11193B	1
Hedinger	Acetone	11195B	2
Hedinger	Acetone	11199B	4
Hedinger	Acetone	11200B	2
Hedinger	Acetone	112108	1
Hedinger	Acetone	11210B	10
Hedinger	Acetone	11215B	3
hedinger	Acetone	11218B	2
Hedinger	Acetone	11226B	1
Hedinger	Acetone	11232B	6
Hedinger	Acetone	11234B	2
Hedinger	Acetone	11236B	1
Hedinger	Acetone	11241b	1
Hedinger	Acetone	11242B	1
Hedinger	Acetone	11247B	4
hedinger	Acetone	11250B	1
Hedinger	Acetone	11250B	5
hedinger	Acetone	11252B	2
Hedinger	Acetone	11252B	1
Hedinger	Acetone	11256B	4
Hedinger	Acetone	11258B	1
Hedinger	Acetone	11260B	3
Hedinger	Acetone	112618	2
Hedinger	Acetone	11261B	1
Hedinger	Acetone	11263B	1
Hedinger	Acetone	112718	2
hedinger	Acetone	11271B	1
Hedinger	Acetone	11271B	1
Hedinger	Acetone	11272B	2
hedinger	Acetone	11277B	1
Hedinger	Acetone	11277B	4
Hedinger	Acetone	112788	1
Hedinger	Acetone	11278B	6
Hedinger	Acetone	11282B	2
hedinger	Acetone	11283B	1
Hedinger	Acetone	11283B	3
Hedinger	Acetone	11288B	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Acetone	112898	2
Hedinger	Acetone	11289B	7
Hedinger	Acetone	11295B	1
Hedinger	Acetone	11297B	3
Hedinger	Acetone	11301B	1
Hedinger	Acetone	11302B	8
Hedinger	Acetone	11308B	2
Hedinger	Acetone	113198	1
Hedinger	Acetone	11319B	4
Hedinger	Acetone	11322B	2
Hedinger	Acetone	113232B	1
Hedinger	Acetone	11323B	7
Hedinger	Acetone	113288	1
Hedinger	Acetone	11328B	3
Hedinger	Acetone	11330B	1
HEDINGER	Acetone	11330B	1
Hedinger	Acetone	113318	1
Hedinger	Acetone	11331B	6
Hedinger	Acetone	11333B	6
Hedinger	Acetone	11336B	4
hedinger	Acetone	11341B	1
Hedinger	Acetone	11341B	7
Hedinger	Acetone	11349B	8
HEDINGER	Acetone	11358B	1
Hedinger	Acetone	11361B	2
Hedinger	Acetone	11372B	4
Hedinger	Acetone	11377B	2
Hedinger	Acetone	123456	1
Hedinger	Acetone	1261B	1
Hedinger	Acetone	13364B	1
Hedinger	Acetone	15230	1
Hedinger	Acetone	16061404	1
Hedinger	Acetone	16081301	1
Hedinger	Acetone	16101402	1
Hedinger	Acetone	18011306	1
Hedinger	Acetone	19041301	1
Hedinger	Acetone	220114	1
Hedinger	Acetone	25071411	1
Hedinger	Acetone	2704211002	1
Hedinger	Acetone	2713M1002	1
Hedinger	Acetone	4061306	1
Hedinger	Acetone	8121401	1
Hedonher/Sanacorp	Acetone	113338	1
Herdinger Phönix	Acetone	11173B	1
Herdinger	Acetone	11210B	1
Hiperscan	Acetone		1
Holdermann	Acetone	11158B	1
Hubertus Apotheke	Acetone	4205062	1
Infectopharm	Acetone	11227B	1
JENNE	Acetone	11302B	2
Kehr/A. Hedinger	Acetone	112828	1
Kögl	Acetone	162005152015	1
L10/Fischar	Acetone	4201021	1
L10	Acetone	11302B	2
L12/Apoth.E.Bartel	Acetone	11272B	1
L12	Acetone	11322B	1
Merck	Acetone	212K17501605	1
Noweda/Hedinger	Acetone	11252B	1
Noweda/Hedinger	Acetone	11272B	1
Noweda/Hedinger	Acetone	112883	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda/Hedinger	Acetone	11302B	2
Noweda/Hedinger	Acetone	11308B	1
Noweda/Hedinger	Acetone	11333B	3
Noweda/Hedinger	Acetone	11377B	1
Noweda	Acetone	11224B	1
Noweda	Acetone	11226B	1
Noweda	Acetone	11323B	1
Noweda	Acetone	11341B	1
Noweda	Acetone	11390B	1
Noweda	Acetone	4207013	1
Noweda	Acetone	4207073	1
Noweda	Acetone	4208041	1
Noweda	Acetone	4208092	1
Noweda	Acetone	4209052	1
Noweda	Acetone	901101	1
O.Fischer GmbH/Anzag 25...	Acetone	4209092	1
Otto Fischar / Noweda	Acetone	4206012	1
Otto Fischar	Acetone	9011/01	1
Otto Fischar GmbH & Co ...	Acetone	4205012	1
Otto Fischar GmbH & Co....	Acetone	1015041	1
Otto Fischar GmbH & Co....	Acetone	1018011	1
Otto Fischar GmbH & Co....	Acetone	4204051	1
Otto Fischar GmbH & Co....	Acetone	4205071	1
Otto Fischar GmbH & Co....	Acetone	4206012	1
Otto Fischar GmbH &Co. ...	Acetone	4200091	1
Otto Fischar GmbH &Co. ...	Acetone	4209031	1
Otto Fischar GmbH &Co. KG	Acetone	1018051	1
Otto Fischar GmbH / Gehe	Acetone	4205092	1
Otto Fischar GmbH Noweda	Acetone	4208121	1
Otto Fischar GmbH&Co.KG...	Acetone	4204032	1
Otto Fischar GmbH/AHD	Acetone	4204092	1
Otto Fischar Gmbh/Phönix	Acetone	4208091	1
Otto Fischar GmbH/Phönix	Acetone	4209091	1
Otto Fischar GmbH/Sanac...	Acetone	1018121	1
Otto Fischar gmbh	Acetone	1017092	1
Otto Fischar GmbH	Acetone	1017101	2
Otto Fischar GmbH	Acetone	1018062	1
Otto Fischar GmbH	Acetone	4201051	1
Otto Fischar GmbH	Acetone	4204032	1
Otto Fischar GmbH	Acetone	4206091	1
Otto Fischar GmbH	Acetone	4207041	1
Otto Fischar GmbH	Acetone	4207072	1
Otto Fischar GmbH	Acetone	4209101	1
Otto Fischar/ Phönix	Acetone	4209102	1
Otto Fischar/ Sanacorp	Acetone	4207042	2
Otto Fischar/Anzag	Acetone	4208062	1
Otto Fischar/Ebert	Acetone	4205071	1
otto fischar/gehe	Acetone	4204032	1
Otto Fischar/Gehe	Acetone	4205062	1
Otto Fischar/Gehe	Acetone	4207041	2
Otto Fischar/Ge-hh	Acetone	4209032	1
Otto Fischar/Phoenix	Acetone	4202112	1
Otto Fischar/Phönix	Acetone	1018091	1
Otto Fischar/Phönix	Acetone	1018111	1
Otto Fischar/Phönix	Acetone	1019011	2
Otto Fischar/Phönix	Acetone	4205012	1
Otto Fischar/Phönix	Acetone	4209092	1
Otto Fischar/Sanacorp	Acetone	1017101	3
otto fischar	Acetone	1015081	1
Otto Fischar	Acetone	1016031	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Otto Fischar	Acetone	1018012	1
Otto Fischar	Acetone	1018062	1
Otto Fischar	Acetone	1018081	1
otto fischar	Acetone	1019011	1
otto fischar	Acetone	12011501	1
otto fischar	Acetone	14031502	1
Otto fischar	Acetone	22121812	1
otto fischar	Acetone	23061503	1
Otto Fischar	Acetone	4203101	1
Otto Fischar	Acetone	4204091	1
Otto Fischar	Acetone	4208061	1
Otto Fischar	Acetone	4208122	1
otto Fischar	Acetone	4209031	1
Otto Fischar	Acetone	90110/1	1
Otto Fischar	Acetone	90205/1	1
Otto Fischbar	Acetone	4204052	1
Otto Fischer Gehe	Acetone	4209091	1
otto fischer noweda 17...	Acetone	1018062	1
Otto Fischer GmbH/Gehe	Acetone	4207012	1
Otto Fischer GmbH/Gehe	Acetone	4207071	1
Otto Fischer GmbH	Acetone	4205092	1
Otto Fischer GmbH	Acetone	4207073	1
Otto Fischer GmbH	Acetone	4208084	1
Otto Fischer GmbH	Acetone	4208092	1
Otto Fischer GmbH	Acetone	4209101	1
Otto Fischer/ Gehe	Acetone	4203101	1
Otto Fischer/ Gehe	Acetone	4204091	1
Otto Fischer/ Jenne	Acetone	1010042	1
Otto Fischer/Krieger	Acetone	4207071	1
Otto Fischer/Sanacorp	Acetone	1018041	1
Otto Fischer	Acetone	1018081	1
Otto Fischer	Acetone	4206061	1
otto fischer	Acetone	4206071	1
OttoFischer/Phönix	Acetone	4208061	1
Ph/Hedinger	Acetone	11341B	1
Phoen	Acetone	4208121	2
Phoenix/Cealo	Acetone	112898	1
Phoenix/Fischar	Acetone	1019082	1
Phoenix/Fischar	Acetone	106091	1
PHOENIX	Acetone	11195B	2
Phoenix	Acetone	11234B	1
Phoenix	Acetone	11271b	1
Phoenix	Acetone	11283B	1
Phoenix	Acetone	11289B	1
Phoenix	Acetone	11372B	2
Phönix Hedinger	Acetone	11295B	1
Phönix W.E:2.03.18 E....	Acetone	11271B	1
Phönix / Hedinger	Acetone	11283B	1
Phönix Gotha	Acetone	4204032	1
Phönix/Fischar	Acetone	4202062	1
Phönix/Fischer	Acetone	4202052	1
Phönix	Acetone	1016111	2
Phönix	Acetone	11242B	1
Phönix	Acetone	11250B	1
PHÖNIX	Acetone	11331B	1
Phönix	Acetone	4202112	1
Phönix	Acetone	4209031	1
Roth	Acetone	409288928	2
Roth	Acetone	70293445	1
Sana Hedinger 22.08.19 ...	Acetone	11333B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp / Hedinger WE:...	Acetone	11227B	1
Sanacorp Hedinger 13.3....	Acetone	11323B	1
sanacorp, 6,64EUR, 20.04....	Acetone	11256B	1
Sanacorp/ Fischar	Acetone	4203111	1
Sanacorp/ Hedinger	Acetone	11308B	1
Sanacorp/ Hedinger	Acetone	11322B	2
Sanacorp/ Hedinger	Acetone	11328B	1
Sanacorp/ Hedinger	Acetone	11331B	1
Sanacorp/ Hedinger	Acetone	11341B	1
Sanacorp/ Hedinger	Acetone	11349B	1
Sanacorp/ Hedinger	Acetone	11358B	1
Sanacorp/Phoenix	Acetone	11210B	1
Sanacorp	Acetone		2
Sanacorp	Acetone	11260B	1
Sanacorp	Acetone	11261B	1
Sanacorp	Acetone	11271B	1
Sanacorp	Acetone	11278B	1
Sanacorp	Acetone	11282B	1
Sanacorp	Acetone	11286B	1
Sanacorp	Acetone	11288B	1
Sanacorp	Acetone	11323B	1
Sanacorp	Acetone	11377B	2
sanacorp	Acetone	4200012	1
Sanacorp	Acetone	4202062	1
Sanacorp	Acetone	4206091	1
Scharr KG	Acetone	143460	1
Scharr	Acetone	127656	2
Seege/ Jenne	Acetone	11199B	2
Stumpf/Hedinger	Acetone	11210B	1
VWR	Acetone	19C264012	1

- 296 403 spectra from 1324 *Apo-Ident* customers from a total of 52 668 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Acetone* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Acetone* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	229	0	68 270
Type B	0	130	0	111 183
Type C	0	1049	6	296 403

The substance/substance group *Acetone* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.3799 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6875 %)	99.4313 % (> 99.1469 %)

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Acetone* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dimethyl sulfoxide	127.42	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Acetone* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31575	31575	0.00	154.33
31793	31575	2.85	153.84
31796	31575	6.21	148.28
35851	31575	9.10	159.48

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Acorus oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31159-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Acorus oil; Oleum calami rectific.

Special notes

When selecting the *Acorus oil* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Acorus oil	3	1	0

Second-stage model

For differentiation of the substance/substance group *Acorus oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Acorus oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Acorus oil	12356706	31159	40	1404623
Caelo	Acorus oil	15081901	32180	40	20150320
Caelo	Acorus oil	15081901	32348	40	20150320
Caelo	Acorus oil	15081901	33251	40	20150320
Caelo	Acorus oil	15081901	33835	40	20150320
Caelo	Acorus oil	172878	34704	40	20171017*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 240 spectra of 6 reference samples from the substance/substance group *Acorus oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.

- 68 259 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Acorus oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Acorus oil	15081902	32347	40

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 0 spectra from 0 *Apo-Ident* customers from 0 batches from the substance/substance group *Acorus oil*.
- Among them are spectra of independent samples from 0 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.
- 297 458 spectra from 1324 *Apo-Ident* customers from a total of 52 987 batches from a further 344 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Acorus oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Acorus oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	240	0	68 259
Type B	0	40	0	111 273
Type C	0	0	0	297 458

The substance/substance group *Acorus oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.5000 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6899 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Acorus oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Bergamot oil	22.29	–
Coriander oil	31.46	–
Cedar wood oil	32.55	–
Lavender oil	34.65	–
Juniper oil	38.34	–
Verbena oil, nature-identical	40.07	–
Caraway oil	46.74	–
Dwarf pine oil	47.02	–
Matricaria oil, rich in (-)-alpha-bisa...	50.55	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Acorus oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31159	31159	0.00	39.23
32180	31159	4.97	34.14
32348	31159	5.38	32.33
33251	31159	5.19	35.46
33835	31159	5.58	36.68
34704	34704	0.00	32.55

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**all-rac-alpha-tocopheryl acetate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31020-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

all-rac-alpha-tocopheryl acetate; int-rac-alpha-Tocopherylis acetas

Special notes

When selecting the *all-rac-alpha-tocopheryl acetate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
all-rac-alpha-tocopheryl acetate	6	13	220

Second-stage model

For differentiation of the substance/substance group *all-rac-alpha-tocopheryl acetate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *all-rac-alpha-tocopheryl acetate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	all-rac-alpha-to...	12362307	31020	40	1402688
Caelo	all-rac-alpha-to...	13396304	31371	40	20131211
Euro OTC	all-rac-alpha-to...	1411025-01	31646	58	20141216
Euro OTC	all-rac-alpha-to...	1512007	31817	60	20151216*
Euro OTC	all-rac-alpha-to...	1901048	34422	40	20190304*
Euro OTC	all-rac-alpha-to...	2002035	34828	40	20200311*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 278 spectra of 6 reference samples from the substance/substance group *all-rac-alpha-tocopheryl acetate*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 221 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 560 spectra of 14 reference samples from the substance/substance group *all-rac-alpha-tocopheryl acetate*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 13 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	all-rac-alpha-tocopheryl ace...	172397	33688	40
Caelo	all-rac-alpha-tocopheryl ace...	180877	34223	40
Caelo	all-rac-alpha-tocopheryl ace...	190620	34652	40
Euro OTC	all-rac-alpha-tocopheryl ace...	1604060	32286	40
Euro OTC	all-rac-alpha-tocopheryl ace...	1606011	32469	40
Euro OTC	all-rac-alpha-tocopheryl ace...	1704014	33446	40
Euro OTC	all-rac-alpha-tocopheryl ace...	1710024	33842	40
Euro OTC	all-rac-alpha-tocopheryl ace...	1803012	34096	40
Euro OTC	all-rac-alpha-tocopheryl ace...	1910026	34750	40
Euro OTC	all-rac-alpha-tocopheryl ace...	2010025	35123	40
Euro OTC	all-rac-alpha-tocopheryl ace...	2105015	35493	40
Euro OTC	all-rac-alpha-tocopheryl ace...	2203013	36226	40
Euro OTC	all-rac-alpha-tocopheryl ace...	22001779	36566	40
Caelo	all-rac-alpha-tocopheryl ace...	172397	33886	40

- 110 753 spectra from a total of 2653 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1095 spectra from 450 *Apo-Ident* customers from 231 batches from the substance/substance group *all-rac-alpha-tocopheryl acetate*.

- Among them are spectra of independent samples from 220 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	all-rac-alpha-tocopheryl ace...	18087703	1
AHD	all-rac-alpha-tocopheryl ace...	18087710	1
Alliance health 05.01.15	all-rac-alpha-tocopheryl ace...	13396305	1
Anzag ek: 7.71	all-rac-alpha-tocopheryl ace...	11300002	1
ANZAG	all-rac-alpha-tocopheryl ace...	12319401	1
Anzag	all-rac-alpha-tocopheryl ace...	20003759002	2
Anzag	all-rac-alpha-tocopheryl ace...	82943389	1
Anzag	all-rac-alpha-tocopheryl ace...	AP16128607T	1
Apolda/Gehe	all-rac-alpha-tocopheryl ace...	18H20-B02	1
Audor Pharma	all-rac-alpha-tocopheryl ace...	12362305T	2
Audor Pharma	all-rac-alpha-tocopheryl ace...	13396303	1
Audor Pharma	all-rac-alpha-tocopheryl ace...	2415E-02500	1
Audor Pharma	all-rac-alpha-tocopheryl ace...	AP11300004	1
Audor Pharma	all-rac-alpha-tocopheryl ace...	AP11300004T	5
Audor Pharma	all-rac-alpha-tocopheryl ace...	AP12362305	1
Audor Pharma	all-rac-alpha-tocopheryl ace...	AP12362305T	5
Audor Pharma	all-rac-alpha-tocopheryl ace...	AP13396303	2
Audor Pharma	all-rac-alpha-tocopheryl ace...	AP13396303T	6
Audor Pharma	all-rac-alpha-tocopheryl ace...	AP143634003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Audor Pharma	all-rac-alpha-tocopheryl ace…	AP14363403T	8
Audor Pharma	all-rac-alpha-tocopheryl ace…	AP15239006T	4
Audor Pharma	all-rac-alpha-tocopheryl ace…	ap16128607t	1
Audor Pharma	all-rac-alpha-tocopheryl ace…	AP16128607T	5
Audor Pharma	all-rac-alpha-tocopheryl ace…	AP161286T	4
Audor Pharma	all-rac-alpha-tocopheryl ace…	AP161286T5735	1
Audor Pharma	all-rac-alpha-tocopheryl ace…	AP42555136W0T	3
Audor Pharma	all-rac-alpha-tocopheryl ace…	AP42555136WOT	1
Bombastus	all-rac-alpha-tocopheryl ace…	17239704	1
Brenntag	all-rac-alpha-tocopheryl ace…	101907	1
Caelo	all-rac-alpha-tocopheryl ace…		1
Caelo	all-rac-alpha-tocopheryl ace…	10247405	1
Caelo	all-rac-alpha-tocopheryl ace…	11043007	1
Caelo	all-rac-alpha-tocopheryl ace…	11043011	1
Caelo	all-rac-alpha-tocopheryl ace…	11300001	3
Caelo	all-rac-alpha-tocopheryl ace…	11300002	2
Caelo	all-rac-alpha-tocopheryl ace…	11300003	2
Caelo	all-rac-alpha-tocopheryl ace…	11300005	3
Caelo	all-rac-alpha-tocopheryl ace…	12053802	9
Caelo	all-rac-alpha-tocopheryl ace…	12053803	6
Caelo	all-rac-alpha-tocopheryl ace…	12091809	1
Caelo	all-rac-alpha-tocopheryl ace…	12319042	1
Caelo	all-rac-alpha-tocopheryl ace…	12319401	2
Caelo	all-rac-alpha-tocopheryl ace…	12319402	3
Caelo	all-rac-alpha-tocopheryl ace…	12319403	1
Caelo	all-rac-alpha-tocopheryl ace…	12362302	13
Caelo	all-rac-alpha-tocopheryl ace…	12362307	17
Caelo	all-rac-alpha-tocopheryl ace…	12362404	1
Caelo	all-rac-alpha-tocopheryl ace…	13075202	2
Caelo	all-rac-alpha-tocopheryl ace…	13201102	1
Caelo	all-rac-alpha-tocopheryl ace…	1321702	1
Caelo	all-rac-alpha-tocopheryl ace…	13217201	13
Caelo	all-rac-alpha-tocopheryl ace…	13217202	4
Caelo	all-rac-alpha-tocopheryl ace…	13217205	13
Caelo	all-rac-alpha-tocopheryl ace…	13217207	13
Caelo	all-rac-alpha-tocopheryl ace…	13396304	4
Caelo	all-rac-alpha-tocopheryl ace…	13396305	2
Caelo	all-rac-alpha-tocopheryl ace…	13396306	6
Caelo	all-rac-alpha-tocopheryl ace…	14011512	1
Caelo	all-rac-alpha-tocopheryl ace…	14076805	6
Caelo	all-rac-alpha-tocopheryl ace…	14076806	7
Caelo	all-rac-alpha-tocopheryl ace…	14076808	2
Caelo	all-rac-alpha-tocopheryl ace…	14076812	10
Caelo	all-rac-alpha-tocopheryl ace…	14076813	4
Caelo	all-rac-alpha-tocopheryl ace…	14101714	1
Caelo	all-rac-alpha-tocopheryl ace…	1411025	1
Caelo	all-rac-alpha-tocopheryl ace…	14363401	2
Caelo	all-rac-alpha-tocopheryl ace…	14363402	2
Caelo	all-rac-alpha-tocopheryl ace…	14363405	5
Caelo	all-rac-alpha-tocopheryl ace…	14363406	6
Caelo	all-rac-alpha-tocopheryl ace…	14363407	7
Caelo	all-rac-alpha-tocopheryl ace…	14363408	4
Caelo	all-rac-alpha-tocopheryl ace…	14363409	1
Caelo	all-rac-alpha-tocopheryl ace…	14363410	5
Caelo	all-rac-alpha-tocopheryl ace…	1504020-01	4
Caelo	all-rac-alpha-tocopheryl ace…	1504020-02	1
Caelo	all-rac-alpha-tocopheryl ace…	1512007-01	1
Caelo	all-rac-alpha-tocopheryl ace…	15126801	2
Caelo	all-rac-alpha-tocopheryl ace…	15238806	5
Caelo	all-rac-alpha-tocopheryl ace…	15238807	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	all-rac-alpha-tocopheryl ace...	15238808	4
Caelo	all-rac-alpha-tocopheryl ace...	15239001	1
Caelo	all-rac-alpha-tocopheryl ace...	15239002	1
Caelo	all-rac-alpha-tocopheryl ace...	15239003	21
Caelo	all-rac-alpha-tocopheryl ace...	15239009	5
Caelo	all-rac-alpha-tocopheryl ace...	15239010	8
Caelo	all-rac-alpha-tocopheryl ace...	15239011	7
Caelo	all-rac-alpha-tocopheryl ace...	15239012	11
Caelo	all-rac-alpha-tocopheryl ace...	160601102	1
Caelo	all-rac-alpha-tocopheryl ace...	1606011-02	3
Caelo	all-rac-alpha-tocopheryl ace...	16091301	1
Caelo	all-rac-alpha-tocopheryl ace...	1612809	1
Caelo	all-rac-alpha-tocopheryl ace...	16128604	5
Caelo	all-rac-alpha-tocopheryl ace...	16128609	20
Caelo	all-rac-alpha-tocopheryl ace...	16128610	6
Caelo	all-rac-alpha-tocopheryl ace...	16128613	3
Caelo	all-rac-alpha-tocopheryl ace...	16128614	11
Caelo	all-rac-alpha-tocopheryl ace...	16128615	20
Caelo	all-rac-alpha-tocopheryl ace...	16128624	5
Caelo	all-rac-alpha-tocopheryl ace...	16128625	19
Caelo	all-rac-alpha-tocopheryl ace...	161286T	1
Caelo	all-rac-alpha-tocopheryl ace...	1628624	1
Caelo	all-rac-alpha-tocopheryl ace...	1710024-02	2
Caelo	all-rac-alpha-tocopheryl ace...	17239702	5
Caelo	all-rac-alpha-tocopheryl ace...	17239704	21
Caelo	all-rac-alpha-tocopheryl ace...	17359201	13
Caelo	all-rac-alpha-tocopheryl ace...	17359203	16
Caelo	all-rac-alpha-tocopheryl ace...	17359204	2
Caelo	all-rac-alpha-tocopheryl ace...	17359211	7
Caelo	all-rac-alpha-tocopheryl ace...	17359212	1
Caelo	all-rac-alpha-tocopheryl ace...	1803012-01	3
Caelo	all-rac-alpha-tocopheryl ace...	18087702	7
Caelo	all-rac-alpha-tocopheryl ace...	18087703	18
Caelo	all-rac-alpha-tocopheryl ace...	180877033	1
Caelo	all-rac-alpha-tocopheryl ace...	18087710	17
Caelo	all-rac-alpha-tocopheryl ace...	18087711	4
Caelo	all-rac-alpha-tocopheryl ace...	18087716	3
Caelo	all-rac-alpha-tocopheryl ace...	1813M-02500	1
Caelo	all-rac-alpha-tocopheryl ace...	190620001	4
Caelo	all-rac-alpha-tocopheryl ace...	190620002	2
Caelo	all-rac-alpha-tocopheryl ace...	190620003	9
Caelo	all-rac-alpha-tocopheryl ace...	19062001	1
Caelo	all-rac-alpha-tocopheryl ace...	19062003	10
Caelo	all-rac-alpha-tocopheryl ace...	19062004	32
Caelo	all-rac-alpha-tocopheryl ace...	19071302	1
Caelo	all-rac-alpha-tocopheryl ace...	192849003	5
Caelo	all-rac-alpha-tocopheryl ace...	192849004	13
Caelo	all-rac-alpha-tocopheryl ace...	20003754010	1
Caelo	all-rac-alpha-tocopheryl ace...	20003759002	4
Caelo	all-rac-alpha-tocopheryl ace...	20003759003	2
Caelo	all-rac-alpha-tocopheryl ace...	20003759005	8
Caelo	all-rac-alpha-tocopheryl ace...	20003759008	2
Caelo	all-rac-alpha-tocopheryl ace...	20003759010	4
Caelo	all-rac-alpha-tocopheryl ace...	20231012-4	1
Caelo	all-rac-alpha-tocopheryl ace...	21003953007	1
Caelo	all-rac-alpha-tocopheryl ace...	26011601	1
Caelo	all-rac-alpha-tocopheryl ace...	3312M-02500	1
Caelo	all-rac-alpha-tocopheryl ace...	40448164	1
Caelo	all-rac-alpha-tocopheryl ace...	42555136WO	1
Caelo	all-rac-alpha-tocopheryl ace...	611toc	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	all-rac-alpha-tocopheryl ace...	70913Toc	1
Caelo	all-rac-alpha-tocopheryl ace...	7123623	1
Caelo	all-rac-alpha-tocopheryl ace...	928490041	1
Caelo	all-rac-alpha-tocopheryl ace...	Ap16128607T	1
Caelo	all-rac-alpha-tocopheryl ace...	UT17040100	1
Caeolo/Noweda	all-rac-alpha-tocopheryl ace...	16128610	1
Caesae &Loretz /Sanacorp	all-rac-alpha-tocopheryl ace...	16128614	1
Caesar & Loretz GmbH / ...	all-rac-alpha-tocopheryl ace...	18087710	1
Caesar & Loretz GmbH / ...	all-rac-alpha-tocopheryl ace...	18087703	1
Caesar & Loretz GmbH / ...	all-rac-alpha-tocopheryl ace...	18087702	2
Caesar & Loretz GmbH / ...	all-rac-alpha-tocopheryl ace...	19062003	2
Caesar & Loretz GmbH Hi...	all-rac-alpha-tocopheryl ace...	11300004	1
Caesar & Loretz GmbH/ G...	all-rac-alpha-tocopheryl ace...	18087703	2
Caesar & Loretz GmbH/ J...	all-rac-alpha-tocopheryl ace...	19062003	1
Caesar & Loretz GmbH/ P...	all-rac-alpha-tocopheryl ace...	190620001	1
Caesar & Loretz GmbH/ P...	all-rac-alpha-tocopheryl ace...	20003759002	1
Caesar & Loretz GmbH/ P...	all-rac-alpha-tocopheryl ace...	20003759008	1
Caesar & Loretz GmbH/ S...	all-rac-alpha-tocopheryl ace...	20003759005	1
Caesar & Loretz GmbH/Fi...	all-rac-alpha-tocopheryl ace...	19062004	2
Caesar & Loretz GmbH/Gehe	all-rac-alpha-tocopheryl ace...	20003759003	1
Caesar & Loretz GmbH/Ph...	all-rac-alpha-tocopheryl ace...	18087711	1
Caesar & Loretz GmbH/Sa...	all-rac-alpha-tocopheryl ace...	19062004	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	12053802	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	13217202	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	15239011	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	18087702	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	18087703	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	18087704	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	18087710	4
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	18087711	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	18087716	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	190620001	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	190620003	3
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	19062003	3
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	19062004	3
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	192849003	2
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	192849004	4
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	20003759002	4
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	20003759005	1
Caesar & Loretz GmbH	all-rac-alpha-tocopheryl ace...	20003759008	3
Caesar und Loretz	all-rac-alpha-tocopheryl ace...	19062003	1
Caeser&Lorenz GmbH/Gehe	all-rac-alpha-tocopheryl ace...	19062004	1
Caleo	all-rac-alpha-tocopheryl ace...	14363407	1
Cealo/Sanacorp	all-rac-alpha-tocopheryl ace...	21003953006	1
DSM Nutritional Prod./...	all-rac-alpha-tocopheryl ace...	15E18-B07	1
DSM Nutritional Prod./ ...	all-rac-alpha-tocopheryl ace...	12E16-N06	1
Ebert & Jacobi	all-rac-alpha-tocopheryl ace...	1901048	1
EuRho/Phoenix	all-rac-alpha-tocopheryl ace...	14B03-B06	1
EuRho	all-rac-alpha-tocopheryl ace...	1901048-01	1
Euro OTC	all-rac-alpha-tocopheryl ace...	11300002	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1208020-01	4
Euro OTC	all-rac-alpha-tocopheryl ace...	12362307	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1301010-01	3
Euro OTC	all-rac-alpha-tocopheryl ace...	1310005-01	3
Euro OTC	all-rac-alpha-tocopheryl ace...	140503201	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1405032-01	9
Euro OTC	all-rac-alpha-tocopheryl ace...	1411025	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1411025-01	10
Euro OTC	all-rac-alpha-tocopheryl ace...	1504020	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1504020-01	9

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	all-rac-alpha-tocopheryl ace...	1504020-02	2
Euro OTC	all-rac-alpha-tocopheryl ace...	1504020-1	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1511I-02500	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1512007-01	12
Euro OTC	all-rac-alpha-tocopheryl ace...	15E18-B07-317323	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1604060-01	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1604060-02	1
Euro OTC	all-rac-alpha-tocopheryl ace...	16040601	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1606011_02	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1606011-01	5
Euro OTC	all-rac-alpha-tocopheryl ace...	160601102	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1606011-02	10
Euro OTC	all-rac-alpha-tocopheryl ace...	160611-02	1
Euro OTC	all-rac-alpha-tocopheryl ace...	170401401	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1704014-01	6
Euro OTC	all-rac-alpha-tocopheryl ace...	171002401	2
Euro OTC	all-rac-alpha-tocopheryl ace...	1710024-01	13
Euro OTC	all-rac-alpha-tocopheryl ace...	17355903	1
Euro OTC	all-rac-alpha-tocopheryl ace...	180301201	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1803012-01	31
Euro OTC	all-rac-alpha-tocopheryl ace...	1803012-01-T20190115	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1803012-31	1
Euro OTC	all-rac-alpha-tocopheryl ace...	180312-01	1
Euro OTC	all-rac-alpha-tocopheryl ace...	18087703	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1901048	1
Euro OTC	all-rac-alpha-tocopheryl ace...	190104801	1
Euro OTC	all-rac-alpha-tocopheryl ace...	1901048-01	24
Euro OTC	all-rac-alpha-tocopheryl ace...	1901048-02	9
Euro OTC	all-rac-alpha-tocopheryl ace...	1910026-01	7
Euro OTC	all-rac-alpha-tocopheryl ace...	1910026-02	1
Euro OTC	all-rac-alpha-tocopheryl ace...	2002035-01	10
Euro OTC	all-rac-alpha-tocopheryl ace...	2010025-01	6
Euro OTC	all-rac-alpha-tocopheryl ace...	2010025-02	1
Euro OTC	all-rac-alpha-tocopheryl ace...	201201601101	1
Euro OTC	all-rac-alpha-tocopheryl ace...	201201707103	2
Euro OTC	all-rac-alpha-tocopheryl ace...	201201710102	2
Euro OTC	all-rac-alpha-tocopheryl ace...	2012202009204	1
Euro OTC	all-rac-alpha-tocopheryl ace...	2105015-01	4
Euro OTC	all-rac-alpha-tocopheryl ace...	303462	1
Euro OTC	all-rac-alpha-tocopheryl ace...	42555136WO	1
EUro/AHD	all-rac-alpha-tocopheryl ace...	1301010-01	1
Euro/Fiebig	all-rac-alpha-tocopheryl ace...	1606011-02	1
Euro/Sanacorp	all-rac-alpha-tocopheryl ace...	1803012-01	1
Euro/Sanacorp	all-rac-alpha-tocopheryl ace...	1901048-02	1
Fagron	all-rac-alpha-tocopheryl ace...	118H20-B02	1
Fagron	all-rac-alpha-tocopheryl ace...	12/28-B40-288705	1
Fagron	all-rac-alpha-tocopheryl ace...	1228-B40-288705	1
Fagron	all-rac-alpha-tocopheryl ace...	12362307	1
Fagron	all-rac-alpha-tocopheryl ace...	12E16-N06	2
Fagron	all-rac-alpha-tocopheryl ace...	12G12-No7	1
Fagron	all-rac-alpha-tocopheryl ace...	12I28-B40	2
Fagron	all-rac-alpha-tocopheryl ace...	12L14-N06	4
Fagron	all-rac-alpha-tocopheryl ace...	14363407	1
Fagron	all-rac-alpha-tocopheryl ace...	14602-B05-303462	1
Fagron	all-rac-alpha-tocopheryl ace...	14B03-B06-294690	4
Fagron	all-rac-alpha-tocopheryl ace...	14G02-B05	1
Fagron	all-rac-alpha-tocopheryl ace...	14G02-B05-303462	4
Fagron	all-rac-alpha-tocopheryl ace...	14G02-B05-3043462	1
Fagron	all-rac-alpha-tocopheryl ace...	15E18-B07	2
Fagron	all-rac-alpha-tocopheryl ace...	15e18-b07-311818	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	all-rac-alpha-tocopheryl ace…	15E18-B07-311818	5
Fagron	all-rac-alpha-tocopheryl ace…	15E18-B07-317323	1
Fagron	all-rac-alpha-tocopheryl ace…	15E18-B07-322952	1
Fagron	all-rac-alpha-tocopheryl ace…	15E18-B07-326638	1
Fagron	all-rac-alpha-tocopheryl ace…	16128604	1
Fagron	all-rac-alpha-tocopheryl ace…	17J02-B07	3
Fagron	all-rac-alpha-tocopheryl ace…	17j02-B07-343845	2
Fagron	all-rac-alpha-tocopheryl ace…	17J02B07343845	1
Fagron	all-rac-alpha-tocopheryl ace…	17J02-B07-343845	9
Fagron	all-rac-alpha-tocopheryl ace…	17J02-Bo7-343845	1
Fagron	all-rac-alpha-tocopheryl ace…	17JO2-B07	1
Fagron	all-rac-alpha-tocopheryl ace…	18H20-B02	2
Fagron	all-rac-alpha-tocopheryl ace…	18H20-B02-355660	4
Fagron	all-rac-alpha-tocopheryl ace…	18H20-B02-359684	4
Fagron	all-rac-alpha-tocopheryl ace…	18H20-B02-363717	2
Fagron	all-rac-alpha-tocopheryl ace…	18H20-B02-366200	3
Fagron	all-rac-alpha-tocopheryl ace…	18H20-B02-369503	1
Fagron	all-rac-alpha-tocopheryl ace…	18H2O-BO2-363717	1
Fagron	all-rac-alpha-tocopheryl ace…	18H2O-BO2-369503	1
Fagron	all-rac-alpha-tocopheryl ace…	21C26T07088299	1
Fagron	all-rac-alpha-tocopheryl ace…	UT12020065	1
Fagron	all-rac-alpha-tocopheryl ace…	UT13110302	1
Fagron	all-rac-alpha-tocopheryl ace…	UT14030070	1
Fagron	all-rac-alpha-tocopheryl ace…	UT18060172	1
Fargon	all-rac-alpha-tocopheryl ace…	17J02-B07-343845	1
Fargon	all-rac-alpha-tocopheryl ace…	18H20-B02-363717	1
Finteler Apotheke	all-rac-alpha-tocopheryl ace…	15E18-B07-326638	1
Fischar/PX	all-rac-alpha-tocopheryl ace…	17359211	1
Gatt-Koller	all-rac-alpha-tocopheryl ace…	1802578	1
Gehe	all-rac-alpha-tocopheryl ace…	14363401	1
Gehe	all-rac-alpha-tocopheryl ace…	1512007-01	1
GEHE	all-rac-alpha-tocopheryl ace…	15E18-B07-311818	2
Gehe	all-rac-alpha-tocopheryl ace…	16128609	1
GEHE	all-rac-alpha-tocopheryl ace…	16128610	1
Gehe	all-rac-alpha-tocopheryl ace…	16128624	1
Gehe	all-rac-alpha-tocopheryl ace…	16128625	1
Geibo	all-rac-alpha-tocopheryl ace…	1803012-01	1
Jenne	all-rac-alpha-tocopheryl ace…	AP161286T	1
Kehr	all-rac-alpha-tocopheryl ace…		1
Kögl	all-rac-alpha-tocopheryl ace…	146905172417	1
Kögl	all-rac-alpha-tocopheryl ace…	20171469	3
Kögl	all-rac-alpha-tocopheryl ace…	31209164216	1
Kögl	all-rac-alpha-tocopheryl ace…	312309164216	1
L12	all-rac-alpha-tocopheryl ace…	1803012-01	1
Max Jenne	all-rac-alpha-tocopheryl ace…	820303113	1
Noweda 06.04.2016	all-rac-alpha-tocopheryl ace…	14363406	1
Noweda	all-rac-alpha-tocopheryl ace…	14363410	1
Noweda	all-rac-alpha-tocopheryl ace…	15239011	1
Noweda	all-rac-alpha-tocopheryl ace…	16128625	1
Noweda	all-rac-alpha-tocopheryl ace…	17239704	1
Noweda	all-rac-alpha-tocopheryl ace…	1803012-01	3
PHOENIX am 27.03.2014	all-rac-alpha-tocopheryl ace…	1310005-01	1
Phoenix	all-rac-alpha-tocopheryl ace…	1803012-01	2
Phoenix	all-rac-alpha-tocopheryl ace…	1901048-01	1
Phönix Gotha	all-rac-alpha-tocopheryl ace…	19062004	1
phönix	all-rac-alpha-tocopheryl ace…	1512007-01	1
Phönix	all-rac-alpha-tocopheryl ace…	15239010	5
phönix	all-rac-alpha-tocopheryl ace…	16128615	1
Phönix	all-rac-alpha-tocopheryl ace…	1803012-01	1
Phönix	all-rac-alpha-tocopheryl ace…	191048-01	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	all-rac-alpha-tocopheryl ace...	20003759005	1
Sanacorp	all-rac-alpha-tocopheryl ace...	12362307	1
Sanacorp	all-rac-alpha-tocopheryl ace...	1301010-01	1
Sanacorp	all-rac-alpha-tocopheryl ace...	18087703	1
Sanacorp	all-rac-alpha-tocopheryl ace...	19062004	1
Sanacorp	all-rac-alpha-tocopheryl ace...	AP11300004T	1
Sanacorp	all-rac-alpha-tocopheryl ace...	Ap12362305T	1
Sanacorp	all-rac-alpha-tocopheryl ace...	AP161286	1
Spinnrad / Gehe	all-rac-alpha-tocopheryl ace...	116303111	1
Spinnrad	all-rac-alpha-tocopheryl ace...	1116303113	2
Spinnrad	all-rac-alpha-tocopheryl ace...	217303111	1
Spinnrad	all-rac-alpha-tocopheryl ace...	220303111	1
Spinnrad	all-rac-alpha-tocopheryl ace...	915303112	1
Stumpf / Hedinger	all-rac-alpha-tocopheryl ace...	15126801	1
Taoasis	all-rac-alpha-tocopheryl ace...	18087703	2
VDL; 24,15EUR; 26.01.2015	all-rac-alpha-tocopheryl ace...	13217206	1
Wepa	all-rac-alpha-tocopheryl ace...	AP15239006T	1
zhedjiang Medicine	all-rac-alpha-tocopheryl ace...	1704014-01	3
Zhejang Medicine / Phönix	all-rac-alpha-tocopheryl ace...	1901048-01	1
Zhejiang Medicine	all-rac-alpha-tocopheryl ace...	1803012-01	1
Zhejiang Medicine	all-rac-alpha-tocopheryl ace...	201201710102	1
Zhejiang,Gehe	all-rac-alpha-tocopheryl ace...		1

- 296 363 spectra from 1324 *Apo-Ident* customers from a total of 52 758 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *all-rac-alpha-tocopheryl acetate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *all-rac-alpha-tocopheryl acetate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	278	0	68 221
Type B	0	560	0	110 753
Type C	0	1091	4	296 363

The substance/substance group *all-rac-alpha-tocopheryl acetate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.8417 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.9286 %)
Type C	100.0000 % (> 99.6875 %)	99.6347 % (> 99.3607 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *all-rac-alpha-tocopheryl acetate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Camphor oil 20%	59.75	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *all-rac-alpha-tocopheryl acetate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31020	31020	0.00	74.99
31371	31817	2.46	74.58
31646	34422	2.48	74.89
31817	31817	0.00	76.05
34422	34422	0.00	74.94
34828	34828	0.00	75.18

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Angelica root oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30939-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Angelica root oil; Oleum angelicae (e radice)

Special notes

When selecting the *Angelica root oil* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Angelica root oil	4	2	3

Second-stage model

For differentiation of the substance/substance group *Angelica root oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Angelica root oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Angelica root oil	11352704	30939	50	1403252
Caelo	Angelica root oil	13157610	31632	60	1511618
Caelo	Angelica root oil	163376	33082	40	20161213*
Caelo	Angelica root oil	172038	33909	40	20170728*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 190 spectra of 4 reference samples from the substance/substance group *Angelica root oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 309 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Angelica root oil*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Angelica root oil	15337207	32929	40
Caelo	Angelica root oil	15337209	33513	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 3 spectra from 3 *Apo-Ident* customers from 3 batches from the substance/substance group *Angelica root oil*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Angelica root oil	11352706	1
Caelo	Angelica root oil	15337205	1
Caelo	Angelica root oil	21111819	1

- 297 455 spectra from 1324 *Apo-Ident* customers from a total of 52 984 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Angelica root oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Angelica root oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	190	0	68 309
Type B	0	69	11	111 233
Type C	0	3	0	297 455

The substance/substance group *Angelica root oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 96.8421 %)
Type B	100.0000 % (> 99.9679 %)	86.2500 % (> 82.5000 %)
Type C	100.0000 % (> 99.6904 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Angelica root oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dwarf pine oil	13.63	–
Juniper oil	18.97	–
Bergamot oil	29.61	–
Pine silvestris oil	32.85	–
Caraway oil	38.05	–
Bitter orange oil	40.09	–
Cedar wood oil	41.94	–
Eucalyptus oil	42.64	–
Spearmint oil	43.36	–
Grapefruit oil	45.31	–
Acorus oil	48.19	–
Cypress oil	51.15	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Angelica root oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30939	30939	0.00	27.11
31632	31632	0.00	20.67
33082	33082	0.00	23.57
33909	33909	0.00	20.21

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances,

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Anise oil / Star aniseed oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31158-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Anise oil / Star aniseed oil; Anise oil; Anisi aetheroleum; Anisi stellati aetheroleum; Star anise oil

Special notes

When selecting the *Anise oil / Star aniseed oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Anise oil / Star aniseed oil	11	8	107

Second-stage model

For differentiation of the substance/substance group *Anise oil / Star aniseed oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Anise oil / Star aniseed oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Anise oil	14230101	31596	60	AR-15-FG-004287-01
Caelo	Anise oil	15148901	31785	60	20150518
Caelo	Anise oil	16306802	32930	40	20161111
Caelo	Anise oil	16306803	33507	40	20161111
Caelo	Anise oil	16306803	33509	40	20161111
Caelo	Anise oil	21002399003	36475	40	20210729
Caelo	Star anise oil	13056105	31158	40	1405104
Caelo	Star anise oil	13358202	31404	40	20131105
Caelo	Star anise oil	20003664001	35839	50	20201113
Euro OTC	Star anise oil	1303017-01	31525	60	20130422
Euro OTC	Star anise oil	511026	31810	60	20151214*
Euro OTC	Star anise oil	1609007	32775	40	20160919*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 570 spectra of 12 reference samples from the substance/substance group *Anise oil / Star aniseed oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 11 different batches.

- 67 929 spectra from a total of 1402 batches from further 227 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples:

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 320 spectra of 8 reference samples from the substance/substance group *Anise oil / Star aniseed oil*.

- Among them are spectra of independent samples from 8 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Anise oil	171500	33908	40
Caelo	Anise oil	183151	34640	40
Caelo	Anise oil	19000778	35025	40
Caelo	Star anise oil	170162	33061	30
Caelo	Star anise oil	15337007	33468	40
Caelo	Star anise oil	183075	34988	40
Euro OTC	Star anise oil	1903016	34497	40
Euro OTC	Star anise oil	2111013	35900	50

- 110 993 spectra from a total of 2658 batches from further 349 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 298 spectra from 147 *Apo-Ident* customers from 104 batches from the substance/substance group *Anise oil / Star aniseed oil*.

- Among them are spectra of independent samples from 96 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Anzag 10.12.12	Star anise oil	1206014-01	1
Apotheke Bauer & Cie. oHG	Anise oil	68952-43-2	1
Bergland	Anise oil	C700200	1
Caelo	Star anise oil	11352402	4
Caelo	Star anise oil	11352409	9
Caelo	Star anise oil	12011904	1
Caelo	Star anise oil	1232207	1
Caelo	Star anise oil	12322501	2
Caelo	Star anise oil	12322503	3
Caelo	Star anise oil	12322505	1
Caelo	Star anise oil	12322507	5
Caelo	Star anise oil	13051404	1
Caelo	Star anise oil	13056103	1
Caelo	Star anise oil	13056105	8
Caelo	Star anise oil	13358201	1
Caelo	Star anise oil	13358202	3
Caelo	Star anise oil	13358208	1
Caelo	Star anise oil	13358209	3
Caelo	Anise oil	14(16306803)	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Star anise oil	14125501	1
Caelo	Star anise oil	14150301	1
Caelo	Star anise oil	14150303	1
Caelo	Star anise oil	14195202	6
Caelo	Star anise oil	14195205	1
Caelo	Star anise oil	14195208	2
Caelo	Star anise oil	14230102	1
Caelo	Star anise oil	14230104	2
Caelo	Star anise oil	145230101	1
Caelo	Star anise oil	15(18307502)	1
Caelo	Star anise oil	15085801	1
Caelo	Star anise oil	15085805	18
Caelo	Star anise oil	15085806	2
Caelo	Anise oil	15119401	5
Caelo	Anise oil	15148901	1
Caelo	Anise oil	15148904	2
Caelo	Star anise oil	15337004	1
Caelo	Star anise oil	15337007	9
Caelo	Star anise oil	15337013	6
Caelo	Star anise oil	15337014	1
Caelo	Star anise oil	15337020	16
Caelo	Star anise oil	15337021	1
Caelo	Anise oil	15428901	2
Caelo	Anise oil	15428903	3
Caelo	Anise oil	15428906	5
Caelo	Anise oil	1612120A/15428901	1
Caelo	Anise oil	16306802	2
Caelo	Anise oil	16306803	4
Caelo	Anise oil	16306806	1
Caelo	Anise oil	16308602	1
Caelo	Star anise oil	17016201	3
Caelo	Star anise oil	17016206	12
Caelo	Star anise oil	17016209	1
Caelo	Anise oil	17150001	15
Caelo	Anise oil	17364104	1
Caelo	Anise oil	18066202	1
Caelo	Star anise oil	18066204	2
Caelo	Star anise oil	18066208	1
Caelo	Star anise oil	18066209	2
Caelo	Star anise oil	18111712	1
Caelo	Anise oil	1824450	1
Caelo	Anise oil	182445002	3
Caelo	Anise oil	18244502	8
Caelo	Anise oil	18244505	3
Caelo	Anise oil	18244508	5
Caelo	Anise oil	1824505	1
Caelo	Star anise oil	183075006	1
Caelo	Star anise oil	18307502	3
Caelo	Star anise oil	18307513	4
Caelo	Anise oil	19000778003	4
Caelo	Star anise oil	20003664001	1
Caelo	Anise oil	20003988002	1
Caelo	Anise oil	20217OA15428901	1
Caelo	Anise oil	21002399003	1
Caelo	Star anise oil	21102014B	1
Caelo	Star anise oil	21111302	1
Caelo	Star anise oil	211130(20003664001)	1
Caelo	Star anise oil	22122014C	1
Caelo	Star anise oil	22122014D	1
Caelo	Star anise oil	25021702	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Star anise oil	25082015C	1
Caelo	Star anise oil	27041501	1
Caelo	Star anise oil	28051310	1
Caelo	Star anise oil	29081504	1
Caelo	Star anise oil	31032014C	1
Caelo	Star anise oil	3324	1
Caelo	Anise oil	5014M-01953	1
Caelo	Star anise oil	5021403	1
Caelo	Star anise oil	8012014A	1
Caesar & Loretz GmbH	Anise oil	15337016	1
Caesar & Loretz GmbH	Anise oil	18244502	4
Caesar & Loretz GmbH	Anise oil	18244505	4
Caesar & Loretz GmbH	Anise oil	18244508	2
Caesar & Loretz GmbH	Star anise oil	183075002	2
Caesar & Loretz GmbH	Star anise oil	18307510	1
Caesar & Loretz GmbH	Star anise oil	18307513	3
Caesar & Loretz GmbH	Anise oil	19000778003	1
Caesar & Loretz/ Noweda	Anise oil	17150001	1
Caesar & Loretz	Anise oil	14230104	1
Caesar & Loretz	Anise oil	15148904	1
Caesar&Loretz/Noweda	Anise oil	16306802	1
Caesar/Noweda	Star anise oil	411I-01953	1
Caleo/Noweda	Star anise oil	15337020	3
E Plus	Star anise oil	17016201	1
EuRho/GEHE	Star anise oil	1303017-01	1
Euro OTC	Star anise oil	1303017-01	1
Euro OTC	Star anise oil	1502037-01	2
Euro OTC	Star anise oil	1609007-01	1
Fiebig	Anise oil	18066208	1
Fiebig	Anise oil	18244502	1
Gatt-Koller	Star anise oil	1803381	2
Gatt-Koller	Star anise oil	803381	1
GEHE	Anise oil	17150001	1
Ichthyol	Anise oil	17016206	1
Kögl	Star anise oil	20162385	1
L12	Anise oil	15428906	1
L12	Anise oil	17364102	1
nachprüfung 19.06.2017	Star anise oil	15337020	1
Noweda	Star anise oil	18066202	1
Noweda	Anise oil	18244502	1
Noweda	Star anise oil	18307508	1
Phoenix 07.01.2019	Anise oil	17150001	1
Phoenix	Anise oil	15337020	1
Phoenix	Anise oil	18066204	1
Phönix	Star anise oil	11352402	1
Phönix	Star anise oil	1502037-01	1
Phönix	Star anise oil	17016209	2
Sanacorp/ Lamotte	Anise oil	42803-3438	1
Sanacorp	Anise oil	18244502	1
Taoasis	Star anise oil	106155	1
Taoasis	Anise oil	42803-127870	1
Taoasis	Anise oil	42803-2851	1
WE:Sanacorp 14.06.2014...	Anise oil	13358202	1
WE:Sanacorp14.06.2014 E...	Star anise oil	13358202	1

- 297 160 spectra from 1324 *Apo-Ident* customers from a total of 52 883 batches from a further 342 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model,

the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Anise oil / Star aniseed oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Anise oil / Star aniseed oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	570	0	67 929
Type B	0	320	0	110 993
Type C	0	297	1	297 160

The substance/substance group *Anise oil / Star aniseed oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 98.9474 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.1250 %)
Type C	100.0000 % (> 99.6875 %)	99.6644 % (> 98.6577 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Anise oil / Star aniseed oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Bitter-fennel fruit oil	59.99	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Anise oil / Star aniseed oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31158	31158	0.00	53.12
31404	31810	2.52	55.66
31525	31810	4.16	54.82
31596	31596	0.00	62.42
31785	31596	1.43	60.42
31810	31810	0.00	57.11
32775	32775	0.00	57.31
32930	31596	5.40	59.35
33507	31596	4.30	59.24
33509	31596	3.02	59.79
35839	31810	7.19	53.96
36475	31158	7.05	56.93

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30520-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)

Special notes

When selecting the *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)	6	3	145

Second-stage model

For differentiation of the substance/substance group *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
apomix	Aqueous salicyli...	21A250913	31119	40	1404661
apomix	Aqueous salicyli...	13B291216	32992	40	20161230
apomix	Aqueous salicyli...	06B090617	33493	40	20170609
apomix	Aqueous salicyli...	10B011019	34682	40	20191002
apomix	Aqueous salicyli...	03B170322	36236	40	20220317
apomix	Aqueous salicyli...	05B270722	36397	40	20220727

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 240 spectra of 6 reference samples from the substance/substance group *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 259 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)*.

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
apomix	Aqueous salicylic acid 50% (...	05B160517	33492	40
apomix	Aqueous salicylic acid 50% (...	11B021117	34035	40
apomix	Aqueous salicylic acid 50% (...	04B200421	35458	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 554 spectra from 140 *Apo-Ident* customers from 170 batches from the substance/substance group *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)*.

- Among them are spectra of independent samples from 145 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Aqueous salicylic acid 50% (...	10B231118	1
AHD	Aqueous salicylic acid 50% (...	13B291216	1
AHD	Aqueous salicylic acid 50% (...	2B050318	1
AHD	Aqueous salicylic acid 50% (...	382803317	1
AHD	Aqueous salicylic acid 50% (...	5B060519	1
AHD	Aqueous salicylic acid 50% (...	6B020718	1
aoi-mix	Aqueous salicylic acid 50% (...	11B021117	1
Apomi	Aqueous salicylic acid 50% (...	10B231118	2
apomix	Aqueous salicylic acid 50% (...	108271020	1
apomix	Aqueous salicylic acid 50% (...	10B011019	4
apomix	Aqueous salicylic acid 50% (...	10B011214	3
apomix	Aqueous salicylic acid 50% (...	10B121016	7
apomix	Aqueous salicylic acid 50% (...	10B121017	9
apomix	Aqueous salicylic acid 50% (...	10B231118	5
apomix	Aqueous salicylic acid 50% (...	10B261015	4
apomix	Aqueous salicylic acid 50% (...	10B271020	4
apomix	Aqueous salicylic acid 50% (...	10C2601015	1
apomix	Aqueous salicylic acid 50% (...	11a300513	1
apomix	Aqueous salicylic acid 50% (...	11B021117	2
apomix	Aqueous salicylic acid 50% (...	11B021215	1
apomix	Aqueous salicylic acid 50% (...	11b041116	1
apomix	Aqueous salicylic acid 50% (...	11B041116	3
apomix	Aqueous salicylic acid 50% (...	11B04116	1
apomix	Aqueous salicylic acid 50% (...	11B101218	7
apomix	Aqueous salicylic acid 50% (...	11B231019	2
apomix	Aqueous salicylic acid 50% (...	11C021215	1
apomix	Aqueous salicylic acid 50% (...	12A300513	2
apomix	Aqueous salicylic acid 50% (...	12B11117	1
apomix	Aqueous salicylic acid 50% (...	12b211117	3
apomix	Aqueous salicylic acid 50% (...	12B211117	2
apomix	Aqueous salicylic acid 50% (...	12B2111175532	1
apomix	Aqueous salicylic acid 50% (...	12b211215	1
apomix	Aqueous salicylic acid 50% (...	12B211215	5
apomix	Aqueous salicylic acid 50% (...	12B251116	4
apomix	Aqueous salicylic acid 50% (...	12b281119	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Aqueous salicylic acid 50% (...	12B281119	5
apomix	Aqueous salicylic acid 50% (...	12C211215	1
apomix	Aqueous salicylic acid 50% (...	13B131217	6
apomix	Aqueous salicylic acid 50% (...	13B191219	4
apomix	Aqueous salicylic acid 50% (...	13B291216	8
apomix	Aqueous salicylic acid 50% (...	16a250713	1
apomix	Aqueous salicylic acid 50% (...	16A250713	1
apomix	Aqueous salicylic acid 50% (...	19A160913	2
apomix	Aqueous salicylic acid 50% (...	1b030119	1
apomix	Aqueous salicylic acid 50% (...	1B030119	5
apomix	Aqueous salicylic acid 50% (...	1B040121	5
apomix	Aqueous salicylic acid 50% (...	1b070218	1
apomix	Aqueous salicylic acid 50% (...	1B070218	10
apomix	Aqueous salicylic acid 50% (...	1B170120	7
apomix	Aqueous salicylic acid 50% (...	1b200116	1
apomix	Aqueous salicylic acid 50% (...	1B20016	1
apomix	Aqueous salicylic acid 50% (...	1B240117	3
apomix	Aqueous salicylic acid 50% (...	1B260115	2
apomix	Aqueous salicylic acid 50% (...	1b270114	1
apomix	Aqueous salicylic acid 50% (...	1C200116	2
apomix	Aqueous salicylic acid 50% (...	22C161013	2
apomix	Aqueous salicylic acid 50% (...	25B041213	1
apomix	Aqueous salicylic acid 50% (...	2b050318	1
apomix	Aqueous salicylic acid 50% (...	2B050318	6
apomix	Aqueous salicylic acid 50% (...	2B0503185606	1
apomix	Aqueous salicylic acid 50% (...	2B090222	3
apomix	Aqueous salicylic acid 50% (...	2B120219	3
apomix	Aqueous salicylic acid 50% (...	2B200220	7
apomix	Aqueous salicylic acid 50% (...	2B2002220	1
apomix	Aqueous salicylic acid 50% (...	2B230215	1
apomix	Aqueous salicylic acid 50% (...	2B230216	1
apomix	Aqueous salicylic acid 50% (...	2B250121	2
apomix	Aqueous salicylic acid 50% (...	2B270217	8
apomix	Aqueous salicylic acid 50% (...	2C060314	1
apomix	Aqueous salicylic acid 50% (...	2C230215	1
apomix	Aqueous salicylic acid 50% (...	2C230216	1
apomix	Aqueous salicylic acid 50% (...	3b11032	1
apomix	Aqueous salicylic acid 50% (...	3B110320	4
apomix	Aqueous salicylic acid 50% (...	3B120319	5
apomix	Aqueous salicylic acid 50% (...	3B140918	1
apomix	Aqueous salicylic acid 50% (...	3b160418	1
apomix	Aqueous salicylic acid 50% (...	3B160418	5
apomix	Aqueous salicylic acid 50% (...	3b230316	1
apomix	Aqueous salicylic acid 50% (...	3B230316	3
apomix	Aqueous salicylic acid 50% (...	3B260315	3
apomix	Aqueous salicylic acid 50% (...	3b280317	2
apomix	Aqueous salicylic acid 50% (...	3B280317	5
apomix	Aqueous salicylic acid 50% (...	3B290321	1
apomix	Aqueous salicylic acid 50% (...	3b310314	1
apomix	Aqueous salicylic acid 50% (...	3B310314	1
apomix	Aqueous salicylic acid 50% (...	3C230316	2
apomix	Aqueous salicylic acid 50% (...	3C310314	1
apomix	Aqueous salicylic acid 50% (...	4a0400313	1
apomix	Aqueous salicylic acid 50% (...	4B030516	4
apomix	Aqueous salicylic acid 50% (...	4B120520	5
apomix	Aqueous salicylic acid 50% (...	4b150518	1
apomix	Aqueous salicylic acid 50% (...	4B150518	7
apomix	Aqueous salicylic acid 50% (...	4B180417	3
apomix	Aqueous salicylic acid 50% (...	4B200421	4
apomix	Aqueous salicylic acid 50% (...	4B200514	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Aqueous salicylic acid 50% (…	4B280319	2
apomix	Aqueous salicylic acid 50% (…	4B280415	2
apomix	Aqueous salicylic acid 50% (…	4C030516	1
apomix	Aqueous salicylic acid 50% (…	5B040615	3
apomix	Aqueous salicylic acid 50% (…	5B060519	6
apomix	Aqueous salicylic acid 50% (…	5B070618	4
apomix	Aqueous salicylic acid 50% (…	5B100621	3
apomix	Aqueous salicylic acid 50% (…	5B160517	3
apomix	Aqueous salicylic acid 50% (…	5B1605175356	1
apomix	Aqueous salicylic acid 50% (…	5b250516	1
apomix	Aqueous salicylic acid 50% (…	5B250516	2
apomix	Aqueous salicylic acid 50% (…	5B260620	8
apomix	Aqueous salicylic acid 50% (…	5B270614	1
apomix	Aqueous salicylic acid 50% (…	6A030413	1
apomix	Aqueous salicylic acid 50% (…	6b020718	1
apomix	Aqueous salicylic acid 50% (…	6B020718	10
apomix	Aqueous salicylic acid 50% (…	6B0207185732	1
apomix	Aqueous salicylic acid 50% (…	6B080715	4
apomix	Aqueous salicylic acid 50% (…	6B090617	2
apomix	Aqueous salicylic acid 50% (…	6B130721	3
apomix	Aqueous salicylic acid 50% (…	6B140616	8
apomix	Aqueous salicylic acid 50% (…	6B170619	3
apomix	Aqueous salicylic acid 50% (…	6B170714	2
apomix	Aqueous salicylic acid 50% (…	6B1708714	1
apomix	Aqueous salicylic acid 50% (…	6B220720	3
apomix	Aqueous salicylic acid 50% (…	6C080715	1
apomix	Aqueous salicylic acid 50% (…	6c170714	1
apomix	Aqueous salicylic acid 50% (…	6C170714	4
apomix	Aqueous salicylic acid 50% (…	7B030719	7
apomix	Aqueous salicylic acid 50% (…	7B060716	3
apomix	Aqueous salicylic acid 50% (…	7B080818	4
apomix	Aqueous salicylic acid 50% (…	7B140820	3
apomix	Aqueous salicylic acid 50% (…	7B170821	3
apomix	Aqueous salicylic acid 50% (…	7B180814	1
apomix	Aqueous salicylic acid 50% (…	7B280715	1
apomix	Aqueous salicylic acid 50% (…	7B300617	6
apomix	Aqueous salicylic acid 50% (…	7C280715	1
apomix	Aqueous salicylic acid 50% (…	8B080817	6
apomix	Aqueous salicylic acid 50% (…	8B0808175412	1
apomix	Aqueous salicylic acid 50% (…	8B100920	4
apomix	Aqueous salicylic acid 50% (…	8B110816	7
apomix	Aqueous salicylic acid 50% (…	8B121021	2
apomix	Aqueous salicylic acid 50% (…	8B140918	7
apomix	Aqueous salicylic acid 50% (…	8b180719	1
apomix	Aqueous salicylic acid 50% (…	8B180719	7
apomix	Aqueous salicylic acid 50% (…	8B18079	1
apomix	Aqueous salicylic acid 50% (…	8B250815	5
apomix	Aqueous salicylic acid 50% (…	8C170914	1
apomix	Aqueous salicylic acid 50% (…	9A020812	1
apomix	Aqueous salicylic acid 50% (…	9B051020	5
apomix	Aqueous salicylic acid 50% (…	9B051114	2
apomix	Aqueous salicylic acid 50% (…	9b060916	1
apomix	Aqueous salicylic acid 50% (…	9B060916	3
apomix	Aqueous salicylic acid 50% (…	9B070917	9
apomix	Aqueous salicylic acid 50% (…	9B111018	5
apomix	Aqueous salicylic acid 50% (…	9B111121	1
apomix	Aqueous salicylic acid 50% (…	9B210819	5
apomix	Aqueous salicylic acid 50% (…	9B240915	3
apomix	Aqueous salicylic acid 50% (…	9C051114	1
apomix	Aqueous salicylic acid 50% (…	9C111121	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Aqueous salicylic acid 50% (...	9c240915	1
apomix	Aqueous salicylic acid 50% (...	9C240915	1
apomix	Aqueous salicylic acid 50% (...	o6B170619	1
Beiersdorf/Phönix	Aqueous salicylic acid 50% (...	7B060716	1
Bombastus	Aqueous salicylic acid 50% (...	2B050318	1
Bombastus	Aqueous salicylic acid 50% (...	6C170714	1
Caelo	Aqueous salicylic acid 50% (...	10B121016	1
Caelo	Aqueous salicylic acid 50% (...	11B021215	1
Caelo	Aqueous salicylic acid 50% (...	1B200116	1
Caelo	Aqueous salicylic acid 50% (...	1B240117	1
Caelo	Aqueous salicylic acid 50% (...	2B050318	1
Caelo	Aqueous salicylic acid 50% (...	2B120219	1
Caelo	Aqueous salicylic acid 50% (...	2C060314	1
Caelo	Aqueous salicylic acid 50% (...	3B120319	1
Caelo	Aqueous salicylic acid 50% (...	3B2803175320	1
Caelo	Aqueous salicylic acid 50% (...	4B280319	2
Caelo	Aqueous salicylic acid 50% (...	9B111018	1
Caelo	Aqueous salicylic acid 50% (...	o9C111121	1
Cealo/Röntgen	Aqueous salicylic acid 50% (...	3B160418	2
Euro OTC	Aqueous salicylic acid 50% (...	10B231118	1
Euro OTC	Aqueous salicylic acid 50% (...	4B150518	1
Fagron	Aqueous salicylic acid 50% (...	1B200116	1
Fagron	Aqueous salicylic acid 50% (...	3B120319	1
Fagron	Aqueous salicylic acid 50% (...	7B060716	1
Frago/Noweda	Aqueous salicylic acid 50% (...	11B021117	1
GEHE	Aqueous salicylic acid 50% (...	10B121016	1
Gehe	Aqueous salicylic acid 50% (...	11A300513	1
GEHE	Aqueous salicylic acid 50% (...	11B021117	1
GEHE	Aqueous salicylic acid 50% (...	11B041116	2
Gehe	Aqueous salicylic acid 50% (...	13B131217	1
GEHE	Aqueous salicylic acid 50% (...	13B291216	1
Gehe	Aqueous salicylic acid 50% (...	22B161013	1
GEHE	Aqueous salicylic acid 50% (...	2B050318	1
Gehe	Aqueous salicylic acid 50% (...	3B120319	1
Gehe	Aqueous salicylic acid 50% (...	4A040313	1
GEHE	Aqueous salicylic acid 50% (...	6B090617	1
GEHE	Aqueous salicylic acid 50% (...	7B300617	1
Gehe	Aqueous salicylic acid 50% (...	8B140918	1
Gehe	Aqueous salicylic acid 50% (...	9A020812	1
Henry Lamotte Oils GmbH	Aqueous salicylic acid 50% (...	5B040615	1
JENNE	Aqueous salicylic acid 50% (...	11B041116	1
Jenne	Aqueous salicylic acid 50% (...	6B090617	1
Klenk	Aqueous salicylic acid 50% (...	22B161013	1
Noweda/PKH GmbH	Aqueous salicylic acid 50% (...	4C280415	1
Noweda/PKH GmbH	Aqueous salicylic acid 50% (...	5B250516	1
Noweda	Aqueous salicylic acid 50% (...	10B271020	1
Noweda	Aqueous salicylic acid 50% (...	11B231019	1
Noweda	Aqueous salicylic acid 50% (...	12B-281119	1
Noweda	Aqueous salicylic acid 50% (...	1B170120	1
Noweda	Aqueous salicylic acid 50% (...	1C130122	1
Noweda	Aqueous salicylic acid 50% (...	4B120520	1
Noweda	Aqueous salicylic acid 50% (...	9B051020	1
Pharmachem/30	Aqueous salicylic acid 50% (...	38310314	1
Phoenix (PKH Halle)	Aqueous salicylic acid 50% (...	3A110213	1
Phoenix/ PKH Halle	Aqueous salicylic acid 50% (...	5A030413	1
Phoenix	Aqueous salicylic acid 50% (...	10B271020	1
Phoenix	Aqueous salicylic acid 50% (...	6B130721	1
PhR Neidhardt	Aqueous salicylic acid 50% (...	2B050318	1
PhR/Sanacorp	Aqueous salicylic acid 50% (...	4A05/13	1
PKH / Noweda	Aqueous salicylic acid 50% (...	1B260115	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
PKH GmbH, Phönix 28.03....	Aqueous salicylic acid 50% (...	3B120319	1
PKH GmbH/ Alliance Heal...	Aqueous salicylic acid 50% (...	4B150518	1
PKH GmbH/ Alliance Heal...	Aqueous salicylic acid 50% (...	8B080817	1
PKH GmbH	Aqueous salicylic acid 50% (...	12A300513	1
PKH GmbH	Aqueous salicylic acid 50% (...	13B191219	1
PKH GmbH	Aqueous salicylic acid 50% (...	25C041213	1
PKH GmbH	Aqueous salicylic acid 50% (...	2C060314	1
PKH GmbH	Aqueous salicylic acid 50% (...	3B110320	1
PKH GmbH	Aqueous salicylic acid 50% (...	4B280415	1
PKH GmbH	Aqueous salicylic acid 50% (...	6B170714	1
PKH GmbH	Aqueous salicylic acid 50% (...	7B060716	1
PKH Halle / Phoenix	Aqueous salicylic acid 50% (...	21A250913	1
PKH Halle/ GEHE	Aqueous salicylic acid 50% (...	2B050318	1
PKH Halle/ Noweda	Aqueous salicylic acid 50% (...	10B011214	1
PKH Halle/ Phoenix	Aqueous salicylic acid 50% (...	1C270114	1
PKH Halle/ Phoenix	Aqueous salicylic acid 50% (...	22C161013	1
PKH Halle/ Phönix	Aqueous salicylic acid 50% (...	11B041116	1
PKH Halle/AHD	Aqueous salicylic acid 50% (...	2B050318	1
PKH Halle/Noweda	Aqueous salicylic acid 50% (...	4B120520	1
PKH Halle/Noweda	Aqueous salicylic acid 50% (...	7B140820	1
PKH Halle/Phoenix	Aqueous salicylic acid 50% (...	7B030719	1
PKH Halle/Phönix	Aqueous salicylic acid 50% (...	88100920	1
PKH Halle/Phönix	Aqueous salicylic acid 50% (...	9B051020	1
PKH Halle/Sanacorp	Aqueous salicylic acid 50% (...	1B270114	1
PKH Halle/Sanacorp	Aqueous salicylic acid 50% (...	5B250516	2
PKH Halle	Aqueous salicylic acid 50% (...	11B231019	1
PKH Halle	Aqueous salicylic acid 50% (...	12B211117	1
PKH Halle	Aqueous salicylic acid 50% (...	13B191219	1
PKH Halle	Aqueous salicylic acid 50% (...	2B270217	3
PKH Halle	Aqueous salicylic acid 50% (...	3B110320	1
PKH Halle	Aqueous salicylic acid 50% (...	4b150518	1
PKH Halle	Aqueous salicylic acid 50% (...	4B150518	1
PKH Halle	Aqueous salicylic acid 50% (...	9B111018	1
PKH Pharm.	Aqueous salicylic acid 50% (...	1B170120	1
PKH	Aqueous salicylic acid 50% (...	6B130721	1
Sanacorp	Aqueous salicylic acid 50% (...	12B211117	1
Sanacorp	Aqueous salicylic acid 50% (...	3B160418	1
Sanacorp	Aqueous salicylic acid 50% (...	4B120520	2
Unisan	Aqueous salicylic acid 50% (...	15001674/0	1

- 296 904 spectra from 1324 *Apo-Ident* customers from a total of 52 818 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	240	0	68 259
Type B	0	120	0	111 193
Type C	0	550	4	296 904

The substance/substance group *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.5000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.2780 % (> 98.7365 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
(s)-Lactic acid	133.41	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR)* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31119	31119	0.00	148.47
32992	31119	10.13	156.34
33493	31119	11.63	151.17
34682	31119	8.33	150.15
36236	31119	6.93	150.34
36397	31119	7.27	151.42

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Base cream DAC**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30211-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Base cream DAC; Cremor basalis

Special notes

When selecting the *Base cream DAC* substance/substance group, the following information is displayed to the user:

- Advice for the identification of base cream DAC: Improper storage of samples can result in identification problems. Please homogenises the sample and let it adapt to room temperature before the measurement.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Base cream DAC	32	337	4187

Second-stage model

For differentiation of the substance/substance group *Base cream DAC* the following second-stage model is used:

- Submodel 06

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Base cream DAC*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Base cream DAC	18005744	34318	40	128927
Bombastus	Base cream DAC	19002698	34503	40	20190604
Caelo	Base cream DAC	13139901	31043	40	20130513
Caelo	Base cream DAC	14052901	31474	40	AR-15-FG-000163-02
Caelo	Base cream DAC	154204	31964	60	20151218*
Caelo	Base cream DAC	17028801	34030	40	AR-18-FG-013988-01
Caelo	Base cream DAC	20002868	35174	40	20201009*
Caelo	Base cream DAC	20002869	35175	40	20201009*
Caelo	Base cream DAC	20002870	35176	40	20201009*
Caelo	Base cream DAC	20002872	35178	40	20201009*
Caelo	Base cream DAC	20002876	35182	40	20201009*
Caelo	Base cream DAC	20003469	35200	40	20210111*
Caelo	Base cream DAC	20004323	35424	40	20210120*
Caelo	Base cream DAC	21001260	35557	50	20210427*
Caelo	Base cream DAC	21001255	35559	50	20210503*
Caelo	Base cream DAC	21001256	35560	50	20210426*
Caelo	Base cream DAC	21001257	35561	50	20210422*
Caelo	Base cream DAC	21001258	35562	50	20210423*
Caelo	Base cream DAC	21001259	35563	50	20210427*
Euro OTC	Base cream DAC	1304006-01	31252	40	AR-15-FG-014906-01
Euro OTC	Base cream DAC	39210516	32345	40	20160623
Euro OTC	Base cream DAC	88590321	35488	40	2109595
Euro OTC	Base cream DAC	88610321	35489	40	20210309
Euro OTC	Base cream DAC	88620321	35490	40	20210309
Euro OTC	Base cream DAC	88600321	35491	40	2109594
Euro OTC	Base cream DAC	68911121	35906	50	20211110*
Euro OTC	Base cream DAC	68941121	35907	50	20211110*
Euro OTC	Base cream DAC	68921121	35908	50	20211110*
Fagron	Base cream DAC	18L19-T15-062894	34482	40	1909294
Fagron	Base cream DAC	18L20-T12-062935	34485	40	20190408
Henry Lamotte	Base cream DAC	5215300	30923	80	20120102
Henry Lamotte	Base cream DAC	8004996002	34504	40	20190319

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 1430 spectra of 32 reference samples from the substance/substance group *Base cream DAC*. These samples are listed above in the *calibration samples* section. The reference samples come from 32 different batches.

- 67 069 spectra from a total of 1381 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 12 620 spectra of 350 reference samples from the substance/substance group *Base cream DAC*.

- Among them are spectra of independent samples from 337 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Base cream DAC	22000475	36208	40
Caelo	Base cream DAC	154198	31963	60
Caelo	Base cream DAC	154201	31965	60
Caelo	Base cream DAC	153911	31966	60
Caelo	Base cream DAC	153910	31967	60
Caelo	Base cream DAC	153909	31968	60
Caelo	Base cream DAC	153905	31969	60
Caelo	Base cream DAC	153904	31970	60
Caelo	Base cream DAC	153903	31971	60
Caelo	Base cream DAC	153902	31972	60
Caelo	Base cream DAC	153578	31973	60
Caelo	Base cream DAC	153869	31974	60
Caelo	Base cream DAC	153872	31975	60
Caelo	Base cream DAC	153868	31976	60
Caelo	Base cream DAC	153576	31977	60
Caelo	Base cream DAC	160051	31978	60
Caelo	Base cream DAC	160052	31979	60
Caelo	Base cream DAC	160053	31980	60
Caelo	Base cream DAC	160054	31981	60
Caelo	Base cream DAC	160055	31982	60
Caelo	Base cream DAC	161021	32236	40
Caelo	Base cream DAC	161347	32237	40
Caelo	Base cream DAC	161348	32238	40
Caelo	Base cream DAC	161349	32239	40
Caelo	Base cream DAC	161356	32240	40
Caelo	Base cream DAC	161357	32241	40
Caelo	Base cream DAC	161358	32244	40
Caelo	Base cream DAC	161359	32245	40
Caelo	Base cream DAC	161360	32246	40
Caelo	Base cream DAC	161361	32247	40
Caelo	Base cream DAC	161362	32248	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Base cream DAC	161363	32249	40
Caelo	Base cream DAC	161456	32250	40
Caelo	Base cream DAC	161038	32251	40
Caelo	Base cream DAC	160556	32252	40
Caelo	Base cream DAC	160588	32253	40
Caelo	Base cream DAC	160559	32254	40
Caelo	Base cream DAC	161020	32255	40
Caelo	Base cream DAC	161022	32260	40
Caelo	Base cream DAC	161501	32368	40
Caelo	Base cream DAC	161522	32369	40
Caelo	Base cream DAC	161460	32521	40
Caelo	Base cream DAC	162378	32522	40
Caelo	Base cream DAC	161499	32524	40
Caelo	Base cream DAC	161554	32525	40
Caelo	Base cream DAC	162204	32526	40
Caelo	Base cream DAC	162205	32527	40
Caelo	Base cream DAC	162379	32528	40
Caelo	Base cream DAC	162380	32529	40
Caelo	Base cream DAC	162381	32530	40
Caelo	Base cream DAC	162382	32531	40
Caelo	Base cream DAC	162383	32532	40
Caelo	Base cream DAC	162403	32533	40
Caelo	Base cream DAC	162406	32534	40
Caelo	Base cream DAC	162407	32535	40
Caelo	Base cream DAC	162410	32539	40
Caelo	Base cream DAC	162416	32540	40
Caelo	Base cream DAC	162417	32541	40
Caelo	Base cream DAC	162420	32542	40
Caelo	Base cream DAC	162422	32543	40
Caelo	Base cream DAC	162617	32544	40
Caelo	Base cream DAC	161500	32547	40
Caelo	Base cream DAC	161524	32548	40
Caelo	Base cream DAC	161558	32549	40
Caelo	Base cream DAC	171542	33380	40
Caelo	Base cream DAC	171533	33381	40
Caelo	Base cream DAC	171474	33382	40
Caelo	Base cream DAC	171532	33383	40
Caelo	Base cream DAC	171473	33384	40
Caelo	Base cream DAC	171082	33385	40
Caelo	Base cream DAC	171543	33386	40
Caelo	Base cream DAC	171004	33387	40
Caelo	Base cream DAC	171039	33388	40
Caelo	Base cream DAC	171476	33389	40
Caelo	Base cream DAC	171005	33390	40
Caelo	Base cream DAC	171557	33391	40
Caelo	Base cream DAC	171038	33392	40
Caelo	Base cream DAC	171475	33393	40
Caelo	Base cream DAC	171477	33394	40
Caelo	Base cream DAC	171170	33395	40
Caelo	Base cream DAC	171240	33397	40
Caelo	Base cream DAC	171534	33526	40
Caelo	Base cream DAC	171535	33527	40
Caelo	Base cream DAC	171536	33528	40
Caelo	Base cream DAC	171537	33529	40
Caelo	Base cream DAC	171538	33530	40
Caelo	Base cream DAC	171539	33531	40
Caelo	Base cream DAC	171540	33532	40
Caelo	Base cream DAC	171545	33533	40
Caelo	Base cream DAC	171546	33534	40
Caelo	Base cream DAC	171547	33535	40

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Base cream DAC	171548	33536	40
Caelo	Base cream DAC	171549	33537	40
Caelo	Base cream DAC	171550	33538	40
Caelo	Base cream DAC	171541	33539	40
Caelo	Base cream DAC	171551	33540	40
Caelo	Base cream DAC	171552	33541	40
Caelo	Base cream DAC	171554	33542	40
Caelo	Base cream DAC	171555	33543	40
Caelo	Base cream DAC	171556	33544	40
Caelo	Base cream DAC	171544	33546	40
Caelo	Base cream DAC	172259	33767	40
Caelo	Base cream DAC	182723	34352	40
Caelo	Base cream DAC	192701	34823	40
Caelo	Base cream DAC	191702	34824	40
Caelo	Base cream DAC	191737	34825	40
Caelo	Base cream DAC	20000048	34977	40
Caelo	Base cream DAC	20001689	34978	40
Caelo	Base cream DAC	20002867	35167	40
Caelo	Base cream DAC	20002866	35173	40
Caelo	Base cream DAC	20002871	35177	40
Caelo	Base cream DAC	20002873	35179	40
Caelo	Base cream DAC	20002874	35180	40
Caelo	Base cream DAC	20002875	35181	40
Caelo	Base cream DAC	20002877	35183	40
Caelo	Base cream DAC	20003181	35184	40
Caelo	Base cream DAC	20003182	35185	40
Caelo	Base cream DAC	20003183	35186	40
Caelo	Base cream DAC	20003185	35187	40
Caelo	Base cream DAC	20003186	35188	40
Caelo	Base cream DAC	20003188	35189	40
Caelo	Base cream DAC	20003189	35190	40
Caelo	Base cream DAC	20003191	35191	40
Caelo	Base cream DAC	20003192	35192	40
Caelo	Base cream DAC	20003193	35193	40
Caelo	Base cream DAC	20003194	35194	40
Caelo	Base cream DAC	20003195	35195	40
Caelo	Base cream DAC	20003196	35196	40
Caelo	Base cream DAC	20003197	35197	40
Caelo	Base cream DAC	20003287	35198	40
Caelo	Base cream DAC	20003288	35199	40
Caelo	Base cream DAC	20003470	35201	40
Caelo	Base cream DAC	20003471	35202	40
Caelo	Base cream DAC	20003472	35203	40
Caelo	Base cream DAC	20003473	35204	40
Caelo	Base cream DAC	20003474	35205	40
Caelo	Base cream DAC	20003475	35206	40
Caelo	Base cream DAC	20003476	35207	40
Caelo	Base cream DAC	20003830	35208	40
Caelo	Base cream DAC	20003831	35209	40
Caelo	Base cream DAC	20003832	35210	40
Caelo	Base cream DAC	20003833	35211	40
Caelo	Base cream DAC	20003834	35212	40
Caelo	Base cream DAC	20003835	35213	40
Caelo	Base cream DAC	20003836	35214	40
Caelo	Base cream DAC	20004315	35215	40
Caelo	Base cream DAC	20004316	35216	40
Caelo	Base cream DAC	20004324	35423	40
Caelo	Base cream DAC	20004328	35425	40
Caelo	Base cream DAC	20004329	35426	40
Caelo	Base cream DAC	20004330	35427	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Base cream DAC	20004331	35428	40
Caelo	Base cream DAC	20004317	35429	40
Caelo	Base cream DAC	20004318	35430	40
Caelo	Base cream DAC	21000601	35431	40
Caelo	Base cream DAC	21000812	35432	40
Caelo	Base cream DAC	21000813	35433	40
Caelo	Base cream DAC	21000814	35434	40
Caelo	Base cream DAC	21000815	35435	40
Caelo	Base cream DAC	21000816	35436	40
Caelo	Base cream DAC	21000817	35437	40
Caelo	Base cream DAC	21000818	35438	40
Caelo	Base cream DAC	21000819	35439	40
Caelo	Base cream DAC	21000820	35440	40
Caelo	Base cream DAC	21000821	35441	40
Caelo	Base cream DAC	21000822	35442	40
Caelo	Base cream DAC	21001243	35443	40
Caelo	Base cream DAC	21001244	35444	40
Caelo	Base cream DAC	21001245	35445	40
Caelo	Base cream DAC	21001246	35446	40
Caelo	Base cream DAC	21001247	35447	40
Caelo	Base cream DAC	21001249	35448	40
Caelo	Base cream DAC	21001250	35449	40
Caelo	Base cream DAC	21001251	35450	40
Caelo	Base cream DAC	21001252	35451	40
Caelo	Base cream DAC	21001253	35452	40
Caelo	Base cream DAC	21001764	35511	50
Caelo	Base cream DAC	21001254	35558	50
Caelo	Base cream DAC	21001765	35682	50
Caelo	Base cream DAC	21001766	35683	50
Caelo	Base cream DAC	21001767	35684	50
Caelo	Base cream DAC	21001769	35685	50
Caelo	Base cream DAC	21001770	35686	50
Caelo	Base cream DAC	21001771	35687	50
Caelo	Base cream DAC	21001772	35688	50
Caelo	Base cream DAC	21001773	35689	50
Caelo	Base cream DAC	21001774	35690	50
Caelo	Base cream DAC	21001775	35691	50
Caelo	Base cream DAC	21001776	35692	50
Caelo	Base cream DAC	21001777	35693	50
Caelo	Base cream DAC	21001778	35694	50
Caelo	Base cream DAC	21001779	35695	50
Caelo	Base cream DAC	21001780	35696	50
Caelo	Base cream DAC	21002384	35697	50
Caelo	Base cream DAC	21002385	35698	50
Caelo	Base cream DAC	21002386	35699	50
Caelo	Base cream DAC	21002387	35700	50
Caelo	Base cream DAC	21002388	35701	50
Caelo	Base cream DAC	21002389	35702	50
Caelo	Base cream DAC	21002390	35703	50
Caelo	Base cream DAC	21002391	35704	50
Caelo	Base cream DAC	21002521	35705	50
Caelo	Base cream DAC	21002523	35706	50
Caelo	Base cream DAC	21002524	35707	50
Caelo	Base cream DAC	21002525	35708	50
Caelo	Base cream DAC	21002526	35709	50
Caelo	Base cream DAC	21002527	35710	50
Caelo	Base cream DAC	21002528	35711	50
Caelo	Base cream DAC	21002529	35712	50
Caelo	Base cream DAC	21002604	35713	50
Caelo	Base cream DAC	21002605	35714	50

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Base cream DAC	21002606	35715	50
Caelo	Base cream DAC	21002607	35716	50
Caelo	Base cream DAC	21002608	35717	50
Caelo	Base cream DAC	21002610	35718	50
Caelo	Base cream DAC	21002708	35878	50
Caelo	Base cream DAC	21002709	35879	50
Caelo	Base cream DAC	21002710	35880	50
Caelo	Base cream DAC	21002711	35881	50
Caelo	Base cream DAC	21002712	35882	50
Caelo	Base cream DAC	21002713	35883	50
Caelo	Base cream DAC	21002714	35884	50
Caelo	Base cream DAC	21002715	35885	50
Caelo	Base cream DAC	21002716	35886	50
Caelo	Base cream DAC	21002718	35887	50
Caelo	Base cream DAC	21002719	35888	50
Caelo	Base cream DAC	21003063	35889	50
Caelo	Base cream DAC	21003064	35890	50
Caelo	Base cream DAC	21003068	35891	50
Caelo	Base cream DAC	21003069	35892	50
Caelo	Base cream DAC	21003072	35893	50
Caelo	Base cream DAC	21003065	35968	40
Caelo	Base cream DAC	21003070	35969	10
Caelo	Base cream DAC	21003071	35970	10
Caelo	Base cream DAC	21004032	35971	10
Caelo	Base cream DAC	21003073	35972	10
Caelo	Base cream DAC	21003077	35973	10
Caelo	Base cream DAC	21003079	35974	10
Caelo	Base cream DAC	21003066	36022	10
Caelo	Base cream DAC	21003067	36023	10
Caelo	Base cream DAC	21003074	36024	10
Caelo	Base cream DAC	21003075	36025	10
Caelo	Base cream DAC	21003076	36026	10
Caelo	Base cream DAC	21003080	36027	10
Caelo	Base cream DAC	21003803	36028	10
Caelo	Base cream DAC	21004025	36029	10
Caelo	Base cream DAC	21004026	36030	10
Caelo	Base cream DAC	21004028	36031	10
Caelo	Base cream DAC	21004029	36032	10
Caelo	Base cream DAC	21004030	36033	10
Caelo	Base cream DAC	21004031	36034	10
Caelo	Base cream DAC	21004033	36035	10
Caelo	Base cream DAC	22000271	36118	40
Caelo	Base cream DAC	22000272	36119	40
Caelo	Base cream DAC	22000273	36120	10
Caelo	Base cream DAC	22000274	36121	10
Caelo	Base cream DAC	22000275	36122	10
Caelo	Base cream DAC	22000276	36123	10
Caelo	Base cream DAC	22000277	36124	10
Caelo	Base cream DAC	22000278	36125	10
Caelo	Base cream DAC	22000279	36126	10
Caelo	Base cream DAC	22000280	36127	10
Caelo	Base cream DAC	22000281	36128	10
Caelo	Base cream DAC	22000282	36129	10
Caelo	Base cream DAC	22000283	36130	10
Caelo	Base cream DAC	22000284	36131	10
Caelo	Base cream DAC	22000285	36132	10
Caelo	Base cream DAC	22000623	36133	10
Caelo	Base cream DAC	22000625	36134	10
Caelo	Base cream DAC	22000627	36135	10
Caelo	Base cream DAC	22000635	36136	10

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Base cream DAC	22000636	36137	10
Caelo	Base cream DAC	22000618	36259	40
Caelo	Base cream DAC	22000619	36260	10
Caelo	Base cream DAC	22000620	36261	10
Caelo	Base cream DAC	22000621	36262	10
Caelo	Base cream DAC	22000622	36263	10
Caelo	Base cream DAC	22000628	36264	10
Caelo	Base cream DAC	22000630	36265	10
Caelo	Base cream DAC	22000631	36266	10
Caelo	Base cream DAC	22000632	36267	10
Caelo	Base cream DAC	22000633	36268	10
Caelo	Base cream DAC	22000634	36269	10
Caelo	Base cream DAC	22001035	36270	10
Caelo	Base cream DAC	22001036	36271	10
Caelo	Base cream DAC	22001037	36272	10
Caelo	Base cream DAC	22001039	36273	10
Caelo	Base cream DAC	22001038	36274	10
Caelo	Base cream DAC	22001047	36275	10
Caelo	Base cream DAC	22001048	36322	10
Caelo	Base cream DAC	22001049	36323	10
Caelo	Base cream DAC	22001050	36324	10
Caelo	Base cream DAC	22001051	36325	10
Caelo	Base cream DAC	22001052	36326	10
Caelo	Base cream DAC	22001053	36327	10
Caelo	Base cream DAC	22001054	36328	10
Caelo	Base cream DAC	22001040	36510	40
Caelo	Base cream DAC	22001041	36511	10
Caelo	Base cream DAC	22001042	36512	10
Caelo	Base cream DAC	22001043	36513	10
Caelo	Base cream DAC	22001044	36514	10
Caelo	Base cream DAC	22001055	36515	10
Caelo	Base cream DAC	22001953	36516	10
Caelo	Base cream DAC	22001954	36517	10
Caelo	Base cream DAC	22001955	36518	10
D'Oroderm	Base cream DAC	1346001	31315	40
Euro OTC	Base cream DAC	07570418	34319	40
Euro OTC	Base cream DAC	76581018	34320	40
Euro OTC	Base cream DAC	92060819	34699	40
Euro OTC	Base cream DAC	40180120	34826	40
Euro OTC	Base cream DAC	15650621	35575	50
Euro OTC	Base cream DAC	15640621	35576	50
Euro OTC	Base cream DAC	15620621	35577	50
Euro OTC	Base cream DAC	15630621	35578	50
Euro OTC	Base cream DAC	58681021	35765	50
Euro OTC	Base cream DAC	58671021	35766	50
Euro OTC	Base cream DAC	48540921	35767	50
Euro OTC	Base cream DAC	58661021	35768	40
Euro OTC	Base cream DAC	48550921	35769	40
Euro OTC	Base cream DAC	48510921	35770	40
Euro OTC	Base cream DAC	48530921	35771	50
Euro OTC	Base cream DAC	58651021	35772	50
Euro OTC	Base cream DAC	79161121	35934	40
Euro OTC	Base cream DAC	79131121	35935	40
Euro OTC	Base cream DAC	79141121	35936	40
Euro OTC	Base cream DAC	15920322	36220	40
Euro OTC	Base cream DAC	15900322	36221	10
Euro OTC	Base cream DAC	15890322	36222	10
Euro OTC	Base cream DAC	15910322	36223	10
Euro OTC	Base cream DAC	57600622	36372	10
Euro OTC	Base cream DAC	57610622	36373	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Euro OTC	Base cream DAC	57620622	36374	10
Euro OTC	Base cream DAC	57630622	36375	10
Euro OTC	Base cream DAC	70150722	36556	10
Euro OTC	Base cream DAC	70160722	36557	10
Euro OTC	Base cream DAC	70170722	36558	10
Euro OTC	Base cream DAC	70180722	36559	10
Caelo	Base cream DAC	161357	32242	40
Caelo	Base cream DAC	161357	32243	40
Caelo	Base cream DAC	161020	32256	40
Caelo	Base cream DAC	161020	32257	40
Caelo	Base cream DAC	161021	32258	40
Caelo	Base cream DAC	161021	32259	40
Caelo	Base cream DAC	161022	32261	40
Caelo	Base cream DAC	161361	32523	40
Caelo	Base cream DAC	162407	32536	40
Caelo	Base cream DAC	162407	32537	40
Caelo	Base cream DAC	162407	32538	40
Caelo	Base cream DAC	162617	32545	40
Caelo	Base cream DAC	162617	32546	40

- 98 693 spectra from a total of 2331 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 22 231 spectra from 1247 *Apo-Ident* customers from 4251 batches from the substance/substance group *Base cream DAC*.

- Among them are spectra of independent samples from 4176 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Base cream DAC	19000944	1
	Base cream DAC	19118301	1
	Base cream DAC	27290917	1
	Base cream DAC	287114	1
	Base cream DAC	289527	1
	Base cream DAC	5909300	2
	Base cream DAC	8004134004	1
/ Anzag	Base cream DAC		1
/Noweda	Base cream DAC	17C16-T08-042619	1
10,99	Base cream DAC	15630621	1
13.07. Geibo	Base cream DAC	18138201	1
18.10.2016 Phoenix 12,6...	Base cream DAC	303422	1
18105101	Base cream DAC	18105101	1
AEP/Phönix	Base cream DAC	19270401	1
AEP	Base cream DAC	19170301	2
AEP	Base cream DAC	19172501	1
AEP	Base cream DAC	296222	1
AH Henry Lamotte Gmbh	Base cream DAC	6003682017	2
AH Henry Lamotte Gmbh	Base cream DAC	6004860001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
AHC 27.06.13 EK 32,95	Base cream DAC	1212025-01	1
AHC/Lamotte	Base cream DAC	8004134006	1
AHC	Base cream DAC	21002710001	1
AHD / P.W. Beyvers GmbH	Base cream DAC	18001	1
AHD / P.W. Beyvers GmbH	Base cream DAC	731/4	2
AHD 11.12.14 EK 8,79	Base cream DAC	289664	1
AHD Lamotte GmbH	Base cream DAC	5910000	1
AHD Lamotte GmbH	Base cream DAC	6004860002	1
AHD Lamotte GmbH	Base cream DAC	800287008	1
AHD Lamotte GmbH	Base cream DAC	8003325009	1
AHD, 02.12.13	Base cream DAC	280079	1
AHD, 05.04.2013	Base cream DAC	275439	1
AHD/ Beyvers	Base cream DAC	19001	2
AHD/ Beyvers	Base cream DAC	640/2	2
AHD/ Beyvers	Base cream DAC	640/3	3
AHD/ Beyvers	Base cream DAC	731/1	1
AHD/Beyvers	Base cream DAC	515/2	3
AHD/Beyvers	Base cream DAC	538/1	1
AHD/Henry Lamotte	Base cream DAC	6003682016	2
AHD/Lamotte	Base cream DAC	8004134010	1
AHD/Lamotte	Base cream DAC	8004996006	1
AHD/Lamotte	Base cream DAC	8005713003	1
AHD	Base cream DAC	16101201	1
AHD	Base cream DAC	17240301	1
AHD	Base cream DAC	18003943	1
AHD	Base cream DAC	18192601	1
AHD	Base cream DAC	18232601	1
AHD	Base cream DAC	19003701	1
AHD	Base cream DAC	19005669	1
AHD	Base cream DAC	19053201	1
AHD	Base cream DAC	19118101	1
AHD	Base cream DAC	19240501	1
AHD	Base cream DAC	20000687001	2
AHD	Base cream DAC	5650700	5
AHDE 21.05,.2015	Base cream DAC	1346001	1
ALH	Base cream DAC	16227001	1
Alliance H.	Base cream DAC	17023601	2
Alliance Health 17.01.2...	Base cream DAC	5490100	1
Alliance Healthcare/Ens...	Base cream DAC	15730518	1
Alliance Healthcare/Ens...	Base cream DAC	80340218	1
Alliance Healthcare/Hed...	Base cream DAC	1502026-01	2
Alliance Healthcare	Base cream DAC	12305301	1
Alliance Healthcare	Base cream DAC	13139801	1
Alliance Healthcare	Base cream DAC	13188101	1
Alliance Healthcare	Base cream DAC	14238501	1
Alliance Healthcare	Base cream DAC	18005236	1
Alliance Healthcare	Base cream DAC	19001	2
Alliance Healthcare	Base cream DAC	303417	1
Alliance Healthcare	Base cream DAC	304353	1
Alliance Healthcare	Base cream DAC	5322400	1
Alliance Healthcare	Base cream DAC	79000916	2
Alliance Healthcare	Base cream DAC	87251118	1
Alliance/Beyvers	Base cream DAC	19005	1
Alliance/Henry	Base cream DAC	6004859002	1
alliance/henry-lamotte	Base cream DAC	8007236001	2
Alliance/Lamotte	Base cream DAC	8005713009	3
Alliance	Base cream DAC	8004996002	1
alliance	Base cream DAC	8005713004	3
Alliance	Base cream DAC	8007236007	1
Allianz Healthcare 20.0...	Base cream DAC	14232201	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Allianz Healthcare	Base cream DAC	8005713004	1
Allianz Healthcare	Base cream DAC	92080819	1
Allianz	Base cream DAC	69530118	1
Anzag 09.11.12	Base cream DAC	272216	1
Anzag 14.01.2013	Base cream DAC	1210011-01	1
Anzag 19.02.2013	Base cream DAC	275444	1
Anzag 19.12.14 3,82	Base cream DAC	14177501	1
Anzag 25.10.12 ek:33,15EUR	Base cream DAC	1205005-01	1
anzag 29.01.13 ek: 33,15EUR	Base cream DAC	1212027-01	1
anzag/ lamotte	Base cream DAC	6018791002	1
anzag/ lamotte	Base cream DAC	6018791004	1
Anzag/Henry Lamotte	Base cream DAC	5289100	1
Anzag/Lamotte	Base cream DAC	5408300	1
Anzag/Lamotte	Base cream DAC	591000	1
Anzag/Lamotte	Base cream DAC	6003682004	1
Anzag	Base cream DAC	1205006-01	1
Anzag	Base cream DAC	14177801	1
anzag	Base cream DAC	18137001	1
Anzag	Base cream DAC	18270601	1
Anzag	Base cream DAC	18H20-T16-059356	1
Anzag	Base cream DAC	19004713	1
Anzag	Base cream DAC	19117001	1
Anzag	Base cream DAC	19G08-T09-069166	1
Anzag	Base cream DAC	2000068001	1
Anzag	Base cream DAC	207/2	1
Anzag	Base cream DAC	21001251001	1
Anzag	Base cream DAC	21002523001	1
Anzag	Base cream DAC	292258	1
Anzag	Base cream DAC	292260	2
Anzag	Base cream DAC	293196	1
Anzag	Base cream DAC	39590217	1
Anzag	Base cream DAC	5215600	1
Anzag	Base cream DAC	5321000	1
Anzag	Base cream DAC	69510118	1
Anzag	Base cream DAC	72270417	1
Anzag;8.14EUR;17.6.15	Base cream DAC	14232301	2
Anzagh	Base cream DAC	5910000	2
AnzagIchthyol	Base cream DAC	16329201	1
Anzah / Henry lammotte	Base cream DAC	57788600	1
apomix	Base cream DAC	17000066	2
apomix	Base cream DAC	17108101	1
apomix	Base cream DAC	17243401	1
apomix	Base cream DAC	281328006/14	1
apomix	Base cream DAC	2B030221	1
apomix	Base cream DAC	2B110220	1
apomix	Base cream DAC	3001016	1
apomix	Base cream DAC	3B250616	1
apomix	Base cream DAC	4D061014	1
apomix	Base cream DAC	88620321	1
apomix	Base cream DAC	9B171019	1
Apotec/Noweda	Base cream DAC	4210919	1
Bambastus	Base cream DAC	293736	1
Basiscreme	Base cream DAC	1510027-01	1
Bayers	Base cream DAC	538/2	1
Bayvers/ AHD	Base cream DAC	515/3	1
Bayvers/Phönix	Base cream DAC	538/2	1
Bayvers	Base cream DAC	440/1	1
Bayvers	Base cream DAC	731/1	3
Bayvers	Base cream DAC	731/3	4
Berkel AHK	Base cream DAC	17f08-T04-045271	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Berkel AHK	Base cream DAC	17K24-T04-050495	1
Beyavers	Base cream DAC	18001	1
Beyers	Base cream DAC	234/1	1
Beyvers / AHD	Base cream DAC	18001	1
Beyvers / AHD	Base cream DAC	19001	1
Beyvers / Alliance	Base cream DAC	19001x2	1
Beyvers / Alliance	Base cream DAC	731/4	3
Beyvers / Gehe	Base cream DAC	19003	1
Beyvers / Phönix	Base cream DAC	515/2	2
Beyvers / Phönix	Base cream DAC	731/4	1
Beyvers / Sanacorp	Base cream DAC	19003	5
Beyvers GmbH /Sanacorp	Base cream DAC	18002	1
Beyvers GmbH/ Noweda	Base cream DAC	18002	1
Beyvers GmbH/ Noweda	Base cream DAC	19001	1
Beyvers GmbH/ Noweda	Base cream DAC	19002	1
Beyvers GmbH/ Noweda	Base cream DAC	329/1	1
Beyvers GmbH/ Noweda	Base cream DAC	731/1	1
Beyvers GmbH/ Noweda	Base cream DAC	731/3	1
Beyvers Gmbh	Base cream DAC	12170717	1
Beyvers Gmbh	Base cream DAC	13170717	1
Beyvers GmbH	Base cream DAC	18002	4
Beyvers GmbH	Base cream DAC	19001	2
Beyvers GmbH	Base cream DAC	329/2	1
Beyvers GmbH	Base cream DAC	440/1	1
Beyvers GmbH	Base cream DAC	538/2	2
Beyvers GmbH	Base cream DAC	640/1	1
Beyvers GmbH	Base cream DAC	731/1	1
Beyvers GmbH	Base cream DAC	731/4	4
Beyvers/ Jenne	Base cream DAC	19005/5220	1
Beyvers/ Phönix	Base cream DAC	19004	3
Beyvers/ Phönix	Base cream DAC	538/2	1
Beyvers/AEP	Base cream DAC	731/4	1
Beyvers/AHD	Base cream DAC		1
Beyvers/Alliance	Base cream DAC	18001	4
Beyvers/Alliance	Base cream DAC	731/2	3
Beyvers/Anzag	Base cream DAC	19003	3
Beyvers/Anzag	Base cream DAC	340/1	1
Beyvers/Anzag	Base cream DAC	640/3	1
Beyvers/Anzag	Base cream DAC	731/2	2
Beyvers/Anzag	Base cream DAC	731/3	1
Beyvers/Beyvers	Base cream DAC	19001	1
Beyvers/Beyvers	Base cream DAC	19002	1
Beyvers/Gehe	Base cream DAC	180-01	1
Beyvers/GEHE	Base cream DAC	18002	2
Beyvers/Gehe	Base cream DAC	538/1	2
Beyvers/Gumo	Base cream DAC	340/2	1
Beyvers/Noweda	Base cream DAC	18001	2
Beyvers/Noweda	Base cream DAC	19002	6
Beyvers/Noweda	Base cream DAC	538/1	1
Beyvers/Noweda	Base cream DAC	538/2	1
Beyvers/Noweda	Base cream DAC	640/2	3
Beyvers/Noweda	Base cream DAC	640/3	7
Beyvers/Noweda	Base cream DAC	731/1	1
Beyvers/Noweda	Base cream DAC	731/2	1
Beyvers/Phönix	Base cream DAC	329/1	1
Beyvers/Phönix	Base cream DAC	340/2	4
Beyvers/Phönix	Base cream DAC	412/1	1
Beyvers/Phönix	Base cream DAC	440/3	1
Beyvers/Sanacorp	Base cream DAC	19002	1
Beyvers/VDL	Base cream DAC	18001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Beyvers/VDL	Base cream DAC	731/3	1
Beyvers	Base cream DAC		6
Beyvers	Base cream DAC	18001	5
Beyvers	Base cream DAC	18002	5
Beyvers	Base cream DAC	19002	1
Beyvers	Base cream DAC	19005	2
Beyvers	Base cream DAC	219/1	1
Beyvers	Base cream DAC	234/2	2
Beyvers	Base cream DAC	234/3	1
Beyvers	Base cream DAC	319/1	3
Beyvers	Base cream DAC	319/2	1
Beyvers	Base cream DAC	319-1	1
Beyvers	Base cream DAC	329/1	1
Beyvers	Base cream DAC	329/2	4
Beyvers	Base cream DAC	340/1	1
Beyvers	Base cream DAC	340/2	3
Beyvers	Base cream DAC	412/1	2
Beyvers	Base cream DAC	412/3	4
Beyvers	Base cream DAC	440/1	3
Beyvers	Base cream DAC	440/2	2
beyvers	Base cream DAC	440/3	1
Beyvers	Base cream DAC	440/3	2
Beyvers	Base cream DAC	515/2	1
Beyvers	Base cream DAC	515/3	2
Beyvers	Base cream DAC	515/5	1
Beyvers	Base cream DAC	5153	1
Beyvers	Base cream DAC	538/1	2
beyvers	Base cream DAC	538/2	2
Beyvers	Base cream DAC	538/2	1
Beyvers	Base cream DAC	538-1	1
Beyvers	Base cream DAC	640/1	5
Beyvers	Base cream DAC	640/2	1
Beyvers	Base cream DAC	640/3	1
Beyvers	Base cream DAC	731/1	3
Beyvers	Base cream DAC	731/2	9
Beyvers	Base cream DAC	731/3	8
beyvers	Base cream DAC	731/4	1
Beyvers	Base cream DAC	731/4	4
Bionorica/ Gehe	Base cream DAC	18003942	1
Bmbastus/Noweda	Base cream DAC	292256	1
bomastus	Base cream DAC	19000948	1
Bomastus	Base cream DAC	20003538	1
Bomastus-Werke / Noweda	Base cream DAC	18003939	1
Bomastus-Werke AG / Kehr	Base cream DAC	20002386	2
Bomastus-Werke AG	Base cream DAC	18001969	1
Bomastus-Werke AG	Base cream DAC	18003108	1
Bomastus-Werke AG	Base cream DAC	18005236	1
Bomastus-Werke AG	Base cream DAC	18005240	1
Bombast	Base cream DAC	21004856	2
Bombastus	Base cream DAC		3
Bombastus	Base cream DAC	10753	1
Bombastus	Base cream DAC	108000966	1
Bombastus	Base cream DAC	1210043-01	1
Bombastus	Base cream DAC	1212029-01	3
Bombastus	Base cream DAC	130161	1
Bombastus	Base cream DAC	13064203	1
Bombastus	Base cream DAC	137105	1
Bombastus	Base cream DAC	140068	1
Bombastus	Base cream DAC	1401020-01	1
Bombastus	Base cream DAC	1508001-01	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	1511002-01	1
Bombastus	Base cream DAC	15387001	1
Bombastus	Base cream DAC	15C-11T05-020388	1
Bombastus	Base cream DAC	16005201	1
Bombastus	Base cream DAC	16232201	1
Bombastus	Base cream DAC	16319501	4
Bombastus	Base cream DAC	16B15-T02-030277	1
Bombastus	Base cream DAC	17000064	1
Bombastus	Base cream DAC	17000065	5
Bombastus	Base cream DAC	17000066	3
Bombastus	Base cream DAC	17000067	2
Bombastus	Base cream DAC	17000068	1
Bombastus	Base cream DAC	17000069	5
Bombastus	Base cream DAC	17000070	2
Bombastus	Base cream DAC	17000071	3
Bombastus	Base cream DAC	17000072	3
Bombastus	Base cream DAC	1700026	1
Bombastus	Base cream DAC	17000896	1
Bombastus	Base cream DAC	17000897	2
Bombastus	Base cream DAC	17000899	4
Bombastus	Base cream DAC	17000902	1
Bombastus	Base cream DAC	17000904	5
Bombastus	Base cream DAC	17000905	5
Bombastus	Base cream DAC	17000906	3
Bombastus	Base cream DAC	17000907	5
Bombastus	Base cream DAC	17000908	3
Bombastus	Base cream DAC	17000909	2
Bombastus	Base cream DAC	17000910	3
Bombastus	Base cream DAC	17000911	4
Bombastus	Base cream DAC	17000912	1
Bombastus	Base cream DAC	17000913	1
Bombastus	Base cream DAC	17000914	1
Bombastus	Base cream DAC	17000915	5
Bombastus	Base cream DAC	17000916	1
Bombastus	Base cream DAC	17000917	4
Bombastus	Base cream DAC	17000918	2
Bombastus	Base cream DAC	17000919	4
Bombastus	Base cream DAC	17000920	5
Bombastus	Base cream DAC	17000921	5
Bombastus	Base cream DAC	17000922	4
Bombastus	Base cream DAC	17000923	5
Bombastus	Base cream DAC	17000924	6
Bombastus	Base cream DAC	17000925	4
Bombastus	Base cream DAC	17000926	9
Bombastus	Base cream DAC	17000927	1
Bombastus	Base cream DAC	1700905	1
Bombastus	Base cream DAC	1700908	1
Bombastus	Base cream DAC	17266601	1
Bombastus	Base cream DAC	180001971	1
Bombastus	Base cream DAC	180001973	1
Bombastus	Base cream DAC	180003931	2
Bombastus	Base cream DAC	180003943	1
Bombastus	Base cream DAC	18000485	1
Bombastus	Base cream DAC	18000487	2
Bombastus	Base cream DAC	18000491	1
Bombastus	Base cream DAC	18000492	1
Bombastus	Base cream DAC	18000493	3
Bombastus	Base cream DAC	18000494	4
Bombastus	Base cream DAC	18000496	1
Bombastus	Base cream DAC	18000497	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	18000498	1
Bombastus	Base cream DAC	180005749	1
Bombastus	Base cream DAC	18000690	1
Bombastus	Base cream DAC	18000949	2
Bombastus	Base cream DAC	18000954	4
Bombastus	Base cream DAC	18000955	1
Bombastus	Base cream DAC	18000956	5
Bombastus	Base cream DAC	18000957	4
Bombastus	Base cream DAC	18000958	3
Bombastus	Base cream DAC	18000959	4
Bombastus	Base cream DAC	18000960	7
Bombastus	Base cream DAC	18000961	5
Bombastus	Base cream DAC	18000962	6
Bombastus	Base cream DAC	18000963	2
Bombastus	Base cream DAC	18000964	4
Bombastus	Base cream DAC	18000965	5
Bombastus	Base cream DAC	18000966	6
Bombastus	Base cream DAC	18000967	2
Bombastus	Base cream DAC	18000968	4
Bombastus	Base cream DAC	18000969	2
Bombastus	Base cream DAC	18000971	2
Bombastus	Base cream DAC	18000972	5
Bombastus	Base cream DAC	18001401	1
Bombastus	Base cream DAC	18001962	2
Bombastus	Base cream DAC	18001964	4
Bombastus	Base cream DAC	18001965	4
Bombastus	Base cream DAC	18001967	4
Bombastus	Base cream DAC	18001968	8
Bombastus	Base cream DAC	18001969	6
Bombastus	Base cream DAC	18001970	3
Bombastus	Base cream DAC	18001971	4
Bombastus	Base cream DAC	18001972	4
Bombastus	Base cream DAC	18001973	1
Bombastus	Base cream DAC	18001974	6
Bombastus	Base cream DAC	18003094	2
Bombastus	Base cream DAC	18003097	6
Bombastus	Base cream DAC	18003098	1
Bombastus	Base cream DAC	18003098P-180827-4	1
Bombastus	Base cream DAC	18003099	1
Bombastus	Base cream DAC	18003102	4
Bombastus	Base cream DAC	18003107	6
Bombastus	Base cream DAC	18003108	2
Bombastus	Base cream DAC	18003109	2
Bombastus	Base cream DAC	18003110	4
Bombastus	Base cream DAC	18003111	5
Bombastus	Base cream DAC	18003112	5
Bombastus	Base cream DAC	18003113	3
Bombastus	Base cream DAC	18003114	2
Bombastus	Base cream DAC	180032925	1
Bombastus	Base cream DAC	18003925	3
Bombastus	Base cream DAC	18003927	1
Bombastus	Base cream DAC	18003928	4
Bombastus	Base cream DAC	18003929	2
Bombastus	Base cream DAC	18003929P-181129-1	1
Bombastus	Base cream DAC	18003931	1
Bombastus	Base cream DAC	18003932	1
Bombastus	Base cream DAC	18003933	2
Bombastus	Base cream DAC	18003934	2
Bombastus	Base cream DAC	18003935	4
Bombastus	Base cream DAC	18003936	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	18003937	3
Bombastus	Base cream DAC	18003938	5
Bombastus	Base cream DAC	18003940	9
Bombastus	Base cream DAC	18003941	4
Bombastus	Base cream DAC	18003942	4
Bombastus	Base cream DAC	18003943	11
Bombastus	Base cream DAC	18003944	4
Bombastus	Base cream DAC	18003945	5
Bombastus	Base cream DAC	18003946	4
Bombastus	Base cream DAC	18005230	1
Bombastus	Base cream DAC	18005231	1
Bombastus	Base cream DAC	18005232	1
Bombastus	Base cream DAC	18005233	3
Bombastus	Base cream DAC	18005234	3
Bombastus	Base cream DAC	18005235	2
Bombastus	Base cream DAC	18005236	3
Bombastus	Base cream DAC	18005237	3
Bombastus	Base cream DAC	18005238	4
Bombastus	Base cream DAC	18005239	7
Bombastus	Base cream DAC	18005240	4
Bombastus	Base cream DAC	18005242	1
Bombastus	Base cream DAC	18005740	2
Bombastus	Base cream DAC	18005741	2
Bombastus	Base cream DAC	18005742	1
Bombastus	Base cream DAC	18005743	3
Bombastus	Base cream DAC	18005744	5
Bombastus	Base cream DAC	18005745	2
Bombastus	Base cream DAC	18005746	2
Bombastus	Base cream DAC	18005747	4
Bombastus	Base cream DAC	18005748	6
Bombastus	Base cream DAC	18005749	4
Bombastus	Base cream DAC	18005750	8
Bombastus	Base cream DAC	18005751	2
Bombastus	Base cream DAC	18005754	12
Bombastus	Base cream DAC	18005760	1
Bombastus	Base cream DAC	18006629	1
Bombastus	Base cream DAC	18006764	2
Bombastus	Base cream DAC	18006765	1
Bombastus	Base cream DAC	18006766	1
Bombastus	Base cream DAC	18006769	1
Bombastus	Base cream DAC	18006770	2
Bombastus	Base cream DAC	18006771	5
Bombastus	Base cream DAC	18006772	4
Bombastus	Base cream DAC	18006773	6
Bombastus	Base cream DAC	18006774	14
Bombastus	Base cream DAC	18006775	2
Bombastus	Base cream DAC	18006776	1
Bombastus	Base cream DAC	18006777	3
Bombastus	Base cream DAC	18006778	1
Bombastus	Base cream DAC	1800960	1
Bombastus	Base cream DAC	1800969	2
Bombastus	Base cream DAC	1800970	1
Bombastus	Base cream DAC	18167001	1
Bombastus	Base cream DAC	188006778	1
Bombastus	Base cream DAC	18E23-T16-056321	1
Bombastus	Base cream DAC	190000954	1
Bombastus	Base cream DAC	190004715	1
Bombastus	Base cream DAC	19000927	1
Bombastus	Base cream DAC	19000928	2
Bombastus	Base cream DAC	19000929	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	19000930	3
Bombastus	Base cream DAC	19000931P-190312-5	1
Bombastus	Base cream DAC	19000935	1
Bombastus	Base cream DAC	19000936	1
Bombastus	Base cream DAC	19000937	2
Bombastus	Base cream DAC	19000937P-190531-2	1
Bombastus	Base cream DAC	19000938	4
Bombastus	Base cream DAC	19000940	1
Bombastus	Base cream DAC	19000941	3
Bombastus	Base cream DAC	19000942	9
Bombastus	Base cream DAC	19000943	9
Bombastus	Base cream DAC	19000944	3
Bombastus	Base cream DAC	19000945	5
Bombastus	Base cream DAC	19000946	2
Bombastus	Base cream DAC	19000947	3
Bombastus	Base cream DAC	19000948	4
Bombastus	Base cream DAC	19000950	6
Bombastus	Base cream DAC	19000951	2
Bombastus	Base cream DAC	19000952	11
Bombastus	Base cream DAC	19000953	4
Bombastus	Base cream DAC	19002670	2
Bombastus	Base cream DAC	19002671	5
Bombastus	Base cream DAC	19002674	1
Bombastus	Base cream DAC	19002676	4
Bombastus	Base cream DAC	19002677	4
Bombastus	Base cream DAC	19002678P-190718-5	1
Bombastus	Base cream DAC	19002679	15
Bombastus	Base cream DAC	19002680	6
Bombastus	Base cream DAC	19002681	4
Bombastus	Base cream DAC	19002682	4
Bombastus	Base cream DAC	19002683	2
Bombastus	Base cream DAC	19002684	6
Bombastus	Base cream DAC	19002685	3
Bombastus	Base cream DAC	19002686	2
Bombastus	Base cream DAC	19002687	3
Bombastus	Base cream DAC	19002688	1
Bombastus	Base cream DAC	19002689	9
Bombastus	Base cream DAC	19002690	7
Bombastus	Base cream DAC	19002691	1
Bombastus	Base cream DAC	19002692	5
Bombastus	Base cream DAC	19002693	5
Bombastus	Base cream DAC	19002694	4
Bombastus	Base cream DAC	19002695	4
Bombastus	Base cream DAC	19002697	1
Bombastus	Base cream DAC	19002698	2
Bombastus	Base cream DAC	190026989	1
Bombastus	Base cream DAC	1900292	1
Bombastus	Base cream DAC	19003274	1
Bombastus	Base cream DAC	19003277	1
Bombastus	Base cream DAC	19003278	2
Bombastus	Base cream DAC	19003279	2
Bombastus	Base cream DAC	19003280	3
Bombastus	Base cream DAC	19003287	5
Bombastus	Base cream DAC	19003288	9
Bombastus	Base cream DAC	19003289	3
Bombastus	Base cream DAC	19003290	6
Bombastus	Base cream DAC	19003291	3
Bombastus	Base cream DAC	19003292	15
Bombastus	Base cream DAC	19003293	4
Bombastus	Base cream DAC	19003294	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	19003295	4
Bombastus	Base cream DAC	19003296	2
Bombastus	Base cream DAC	19003297	7
Bombastus	Base cream DAC	19003298	12
Bombastus	Base cream DAC	19003299	12
Bombastus	Base cream DAC	19003300	4
Bombastus	Base cream DAC	19003301	2
Bombastus	Base cream DAC	19003302	6
Bombastus	Base cream DAC	19004701P-191028-2	1
Bombastus	Base cream DAC	19004702	2
Bombastus	Base cream DAC	19004707	2
Bombastus	Base cream DAC	19004708	1
Bombastus	Base cream DAC	19004709	1
Bombastus	Base cream DAC	19004709P-200116-4	1
Bombastus	Base cream DAC	19004710	1
Bombastus	Base cream DAC	19004711	6
Bombastus	Base cream DAC	19004712	4
Bombastus	Base cream DAC	19004713	2
Bombastus	Base cream DAC	19004714	2
Bombastus	Base cream DAC	19004715	3
Bombastus	Base cream DAC	19004716	1
Bombastus	Base cream DAC	19004717	3
Bombastus	Base cream DAC	19004718	4
Bombastus	Base cream DAC	19004719	3
Bombastus	Base cream DAC	19004720	6
Bombastus	Base cream DAC	19004721	6
Bombastus	Base cream DAC	19004723	1
Bombastus	Base cream DAC	19004724	4
Bombastus	Base cream DAC	19004725	3
Bombastus	Base cream DAC	19004726	3
Bombastus	Base cream DAC	19004727	8
Bombastus	Base cream DAC	19005662	5
Bombastus	Base cream DAC	19005663	2
Bombastus	Base cream DAC	19005666	1
Bombastus	Base cream DAC	19005667	4
Bombastus	Base cream DAC	19005668P-200326-5	1
Bombastus	Base cream DAC	19005669	10
Bombastus	Base cream DAC	19005670	8
Bombastus	Base cream DAC	190056702x	1
Bombastus	Base cream DAC	19005671	4
Bombastus	Base cream DAC	19005672	6
Bombastus	Base cream DAC	19005673	6
Bombastus	Base cream DAC	19005675	2
Bombastus	Base cream DAC	19005677	1
Bombastus	Base cream DAC	19005678	3
Bombastus	Base cream DAC	19005681	4
Bombastus	Base cream DAC	190205670	1
Bombastus	Base cream DAC	190322802	1
Bombastus	Base cream DAC	1903298	1
Bombastus	Base cream DAC	190431104	1
Bombastus	Base cream DAC	190522705	1
Bombastus	Base cream DAC	19052901	1
Bombastus	Base cream DAC	190682106	1
Bombastus	Base cream DAC	190872108	2
Bombastus	Base cream DAC	200000471	2
Bombastus	Base cream DAC	200000473	1
Bombastus	Base cream DAC	20000461	2
Bombastus	Base cream DAC	20000462	4
Bombastus	Base cream DAC	20000466	3
Bombastus	Base cream DAC	20000468	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	20000469	1
Bombastus	Base cream DAC	20000470	1
Bombastus	Base cream DAC	20000471	4
Bombastus	Base cream DAC	20000472	7
Bombastus	Base cream DAC	20000473	6
Bombastus	Base cream DAC	20000474	4
Bombastus	Base cream DAC	20000475	4
Bombastus	Base cream DAC	20000476	3
Bombastus	Base cream DAC	20000477	3
Bombastus	Base cream DAC	20000478	3
Bombastus	Base cream DAC	20000479	2
Bombastus	Base cream DAC	20000480	3
Bombastus	Base cream DAC	20000481	6
Bombastus	Base cream DAC	20000482	3
Bombastus	Base cream DAC	20000483	6
Bombastus	Base cream DAC	20000484	2
Bombastus	Base cream DAC	20000485	5
Bombastus	Base cream DAC	20000486	3
Bombastus	Base cream DAC	20000487	3
Bombastus	Base cream DAC	20000488	6
Bombastus	Base cream DAC	20001571	1
Bombastus	Base cream DAC	20001578	2
Bombastus	Base cream DAC	20001579	3
Bombastus	Base cream DAC	20001580	2
Bombastus	Base cream DAC	20001581	6
Bombastus	Base cream DAC	20001583	7
Bombastus	Base cream DAC	20001584	5
Bombastus	Base cream DAC	20001585	6
Bombastus	Base cream DAC	20001586	3
Bombastus	Base cream DAC	20002379	4
Bombastus	Base cream DAC	20002381	1
Bombastus	Base cream DAC	20002383	1
Bombastus	Base cream DAC	20002384	4
Bombastus	Base cream DAC	20002385	3
Bombastus	Base cream DAC	20002386	4
Bombastus	Base cream DAC	20002388	3
Bombastus	Base cream DAC	20002389	4
Bombastus	Base cream DAC	20002391	4
Bombastus	Base cream DAC	20002392	2
Bombastus	Base cream DAC	20002393	6
Bombastus	Base cream DAC	20002394	5
Bombastus	Base cream DAC	20002395	1
Bombastus	Base cream DAC	20002396	10
Bombastus	Base cream DAC	20002397	10
Bombastus	Base cream DAC	20003529	3
Bombastus	Base cream DAC	20003533	1
Bombastus	Base cream DAC	20003534	1
Bombastus	Base cream DAC	20003535	3
Bombastus	Base cream DAC	20003536	2
Bombastus	Base cream DAC	20003537	3
Bombastus	Base cream DAC	20003538	2
Bombastus	Base cream DAC	20003539	1
Bombastus	Base cream DAC	20003540	1
Bombastus	Base cream DAC	20003541	4
Bombastus	Base cream DAC	20003542	1
Bombastus	Base cream DAC	20003543	3
Bombastus	Base cream DAC	20003544	6
Bombastus	Base cream DAC	20003545	5
Bombastus	Base cream DAC	20003546	2
Bombastus	Base cream DAC	20003547	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	20003548	8
Bombastus	Base cream DAC	20004587	2
Bombastus	Base cream DAC	20004589	1
Bombastus	Base cream DAC	20004590	3
Bombastus	Base cream DAC	20004591	7
Bombastus	Base cream DAC	20004592	8
Bombastus	Base cream DAC	20004593	4
Bombastus	Base cream DAC	20004594	2
Bombastus	Base cream DAC	20004595	4
Bombastus	Base cream DAC	20004596	6
Bombastus	Base cream DAC	20004598	3
Bombastus	Base cream DAC	20004599	4
Bombastus	Base cream DAC	20004600	2
Bombastus	Base cream DAC	20004601	4
Bombastus	Base cream DAC	20004603	3
Bombastus	Base cream DAC	20004604	1
Bombastus	Base cream DAC	20004606	1
Bombastus	Base cream DAC	20004607	4
Bombastus	Base cream DAC	20004608	2
Bombastus	Base cream DAC	20004609	3
Bombastus	Base cream DAC	2000473	1
Bombastus	Base cream DAC	2000479	1
Bombastus	Base cream DAC	2003542	1
Bombastus	Base cream DAC	2004596	1
Bombastus	Base cream DAC	21000271	3
Bombastus	Base cream DAC	21000277	4
Bombastus	Base cream DAC	21000278	1
Bombastus	Base cream DAC	21000279	4
Bombastus	Base cream DAC	21000280	5
Bombastus	Base cream DAC	21000281	3
Bombastus	Base cream DAC	21000282	4
Bombastus	Base cream DAC	21000283	4
Bombastus	Base cream DAC	21000814	3
Bombastus	Base cream DAC	21000815	1
Bombastus	Base cream DAC	21000816	2
Bombastus	Base cream DAC	21000817	1
Bombastus	Base cream DAC	21000818	8
Bombastus	Base cream DAC	21000819	3
Bombastus	Base cream DAC	21000821	2
Bombastus	Base cream DAC	21000822	1
Bombastus	Base cream DAC	21000823	2
Bombastus	Base cream DAC	21000824	4
Bombastus	Base cream DAC	21000825	1
Bombastus	Base cream DAC	21000826	1
Bombastus	Base cream DAC	21000827	2
Bombastus	Base cream DAC	21001868	1
Bombastus	Base cream DAC	21001870	3
Bombastus	Base cream DAC	21001872	2
Bombastus	Base cream DAC	21001873	4
Bombastus	Base cream DAC	21001876	1
Bombastus	Base cream DAC	21001877	3
Bombastus	Base cream DAC	21001878	3
Bombastus	Base cream DAC	21001881	2
Bombastus	Base cream DAC	21001882	1
Bombastus	Base cream DAC	21001883	2
Bombastus	Base cream DAC	21001886	6
Bombastus	Base cream DAC	21001888	1
Bombastus	Base cream DAC	21001890	5
Bombastus	Base cream DAC	21001891	2
Bombastus	Base cream DAC	21001892	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	21002878	1
Bombastus	Base cream DAC	21002880	1
Bombastus	Base cream DAC	21002883	1
Bombastus	Base cream DAC	21002884	1
Bombastus	Base cream DAC	21003416	1
Bombastus	Base cream DAC	21003419	2
Bombastus	Base cream DAC	21003420	1
Bombastus	Base cream DAC	21003424	4
Bombastus	Base cream DAC	21004193	1
Bombastus	Base cream DAC	21004196	1
Bombastus	Base cream DAC	21004198	2
Bombastus	Base cream DAC	21004200	1
Bombastus	Base cream DAC	21004201	1
Bombastus	Base cream DAC	21004202	1
Bombastus	Base cream DAC	21004850	1
Bombastus	Base cream DAC	21004851	1
Bombastus	Base cream DAC	21004856	3
Bombastus	Base cream DAC	21004858	1
Bombastus	Base cream DAC	21004859	3
Bombastus	Base cream DAC	22000461	2
Bombastus	Base cream DAC	22000463	2
Bombastus	Base cream DAC	22000475	1
Bombastus	Base cream DAC	260416v3	1
Bombastus	Base cream DAC	262001	1
Bombastus	Base cream DAC	263429	1
Bombastus	Base cream DAC	265036	2
Bombastus	Base cream DAC	266524	1
Bombastus	Base cream DAC	266749	1
Bombastus	Base cream DAC	266799	1
Bombastus	Base cream DAC	268821	1
Bombastus	Base cream DAC	268822	1
Bombastus	Base cream DAC	268925	2
Bombastus	Base cream DAC	269993	1
Bombastus	Base cream DAC	269996	1
Bombastus	Base cream DAC	270000	2
Bombastus	Base cream DAC	270157	1
Bombastus	Base cream DAC	271999	1
Bombastus	Base cream DAC	272001	1
Bombastus	Base cream DAC	272084	2
Bombastus	Base cream DAC	272086	3
Bombastus	Base cream DAC	272093	1
Bombastus	Base cream DAC	272214	1
Bombastus	Base cream DAC	272215	4
Bombastus	Base cream DAC	272216	1
Bombastus	Base cream DAC	272219	1
Bombastus	Base cream DAC	272221	1
Bombastus	Base cream DAC	272372	1
Bombastus	Base cream DAC	272373	1
Bombastus	Base cream DAC	272375	2
Bombastus	Base cream DAC	272464	2
Bombastus	Base cream DAC	275173	1
Bombastus	Base cream DAC	275175	1
Bombastus	Base cream DAC	275181	2
Bombastus	Base cream DAC	275182	1
Bombastus	Base cream DAC	275184	2
Bombastus	Base cream DAC	275273	2
Bombastus	Base cream DAC	275275	1
Bombastus	Base cream DAC	275277	1
Bombastus	Base cream DAC	275278	1
Bombastus	Base cream DAC	275279	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	275282	1
Bombastus	Base cream DAC	275438	2
Bombastus	Base cream DAC	275443	1
Bombastus	Base cream DAC	275447	2
Bombastus	Base cream DAC	275590	2
Bombastus	Base cream DAC	275591	1
Bombastus	Base cream DAC	276944	2
Bombastus	Base cream DAC	276948	1
Bombastus	Base cream DAC	276950	1
Bombastus	Base cream DAC	277099	7
Bombastus	Base cream DAC	277110	1
Bombastus	Base cream DAC	277248	1
Bombastus	Base cream DAC	278396	2
Bombastus	Base cream DAC	278397	1
Bombastus	Base cream DAC	278398	3
Bombastus	Base cream DAC	278470	3
Bombastus	Base cream DAC	278472	4
Bombastus	Base cream DAC	278474	6
Bombastus	Base cream DAC	278475	2
Bombastus	Base cream DAC	278553	1
Bombastus	Base cream DAC	278555	3
Bombastus	Base cream DAC	278556	6
Bombastus	Base cream DAC	278557	2
Bombastus	Base cream DAC	278558	1
Bombastus	Base cream DAC	278559	1
Bombastus	Base cream DAC	278560	2
Bombastus	Base cream DAC	278561	1
Bombastus	Base cream DAC	278562	3
Bombastus	Base cream DAC	278563	2
Bombastus	Base cream DAC	279829	1
Bombastus	Base cream DAC	279958	3
Bombastus	Base cream DAC	279959	1
Bombastus	Base cream DAC	279960	1
Bombastus	Base cream DAC	279961	1
Bombastus	Base cream DAC	279962	1
Bombastus	Base cream DAC	279964	3
Bombastus	Base cream DAC	279965	1
Bombastus	Base cream DAC	280077	1
Bombastus	Base cream DAC	280078	3
Bombastus	Base cream DAC	280079	2
Bombastus	Base cream DAC	280080	3
Bombastus	Base cream DAC	280082	2
Bombastus	Base cream DAC	281239	1
Bombastus	Base cream DAC	281240	2
Bombastus	Base cream DAC	281242	2
Bombastus	Base cream DAC	281243	2
Bombastus	Base cream DAC	281328	1
Bombastus	Base cream DAC	281329	4
Bombastus	Base cream DAC	281331	6
Bombastus	Base cream DAC	281332	1
Bombastus	Base cream DAC	281333	1
Bombastus	Base cream DAC	281334	1
Bombastus	Base cream DAC	281335	1
Bombastus	Base cream DAC	281486	1
Bombastus	Base cream DAC	282723	2
Bombastus	Base cream DAC	282771	3
Bombastus	Base cream DAC	282773	2
Bombastus	Base cream DAC	282774	1
Bombastus	Base cream DAC	282778	1
Bombastus	Base cream DAC	282887	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	283917	2
Bombastus	Base cream DAC	283918	1
Bombastus	Base cream DAC	283971	1
Bombastus	Base cream DAC	283972	2
Bombastus	Base cream DAC	283974	2
Bombastus	Base cream DAC	283975	1
Bombastus	Base cream DAC	283976	1
Bombastus	Base cream DAC	285220	1
Bombastus	Base cream DAC	285227	1
Bombastus	Base cream DAC	285228	4
Bombastus	Base cream DAC	286086	2
Bombastus	Base cream DAC	286087	5
Bombastus	Base cream DAC	286088	4
Bombastus	Base cream DAC	286089	1
Bombastus	Base cream DAC	286090	2
Bombastus	Base cream DAC	286093	2
Bombastus	Base cream DAC	286094	3
Bombastus	Base cream DAC	286155	1
Bombastus	Base cream DAC	286157	1
Bombastus	Base cream DAC	286158	3
Bombastus	Base cream DAC	286159	1
Bombastus	Base cream DAC	286160	3
Bombastus	Base cream DAC	286161	1
Bombastus	Base cream DAC	286162	1
Bombastus	Base cream DAC	287110	1
Bombastus	Base cream DAC	287111	1
Bombastus	Base cream DAC	287112	1
Bombastus	Base cream DAC	287115	2
Bombastus	Base cream DAC	287116	1
Bombastus	Base cream DAC	287117	1
Bombastus	Base cream DAC	287193	1
Bombastus	Base cream DAC	287195	2
Bombastus	Base cream DAC	287197	5
Bombastus	Base cream DAC	287248	2
Bombastus	Base cream DAC	287251	3
Bombastus	Base cream DAC	287875	1
Bombastus	Base cream DAC	287876	1
Bombastus	Base cream DAC	287941	1
Bombastus	Base cream DAC	287942	1
Bombastus	Base cream DAC	287944	2
Bombastus	Base cream DAC	287945	3
Bombastus	Base cream DAC	287946	2
Bombastus	Base cream DAC	288054	1
Bombastus	Base cream DAC	288055	4
Bombastus	Base cream DAC	288057	1
Bombastus	Base cream DAC	288058	1
Bombastus	Base cream DAC	289526	2
Bombastus	Base cream DAC	289529	3
Bombastus	Base cream DAC	289530	4
Bombastus	Base cream DAC	289531	2
Bombastus	Base cream DAC	289589	1
Bombastus	Base cream DAC	289590	1
Bombastus	Base cream DAC	289591	1
Bombastus	Base cream DAC	289660	1
Bombastus	Base cream DAC	289661	1
Bombastus	Base cream DAC	289663	4
Bombastus	Base cream DAC	289665	1
Bombastus	Base cream DAC	289667	1
Bombastus	Base cream DAC	289669	2
Bombastus	Base cream DAC	289802	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	289803	1
Bombastus	Base cream DAC	289804	1
Bombastus	Base cream DAC	289805	2
Bombastus	Base cream DAC	290866	1
Bombastus	Base cream DAC	291024	1
Bombastus	Base cream DAC	291025	2
Bombastus	Base cream DAC	291026	2
Bombastus	Base cream DAC	291028	1
Bombastus	Base cream DAC	291029	1
Bombastus	Base cream DAC	291030	1
Bombastus	Base cream DAC	291032	2
Bombastus	Base cream DAC	291034	2
Bombastus	Base cream DAC	291069	1
Bombastus	Base cream DAC	292122	2
Bombastus	Base cream DAC	292123	1
Bombastus	Base cream DAC	292125	4
Bombastus	Base cream DAC	292127	2
Bombastus	Base cream DAC	292256	3
Bombastus	Base cream DAC	292257	1
Bombastus	Base cream DAC	292258	1
Bombastus	Base cream DAC	292259	1
Bombastus	Base cream DAC	292260	2
Bombastus	Base cream DAC	292261	2
Bombastus	Base cream DAC	292263	3
Bombastus	Base cream DAC	292267	2
Bombastus	Base cream DAC	293196	1
Bombastus	Base cream DAC	293199	1
Bombastus	Base cream DAC	293200	2
Bombastus	Base cream DAC	293201	2
Bombastus	Base cream DAC	293738	1
Bombastus	Base cream DAC	293739	2
Bombastus	Base cream DAC	293795	6
Bombastus	Base cream DAC	293796	1
Bombastus	Base cream DAC	293800	1
Bombastus	Base cream DAC	293801	1
Bombastus	Base cream DAC	293939	4
Bombastus	Base cream DAC	293940	1
Bombastus	Base cream DAC	293941	1
Bombastus	Base cream DAC	293942	4
Bombastus	Base cream DAC	293943	2
Bombastus	Base cream DAC	293944	3
Bombastus	Base cream DAC	293973	2
Bombastus	Base cream DAC	294829	2
Bombastus	Base cream DAC	294831	1
Bombastus	Base cream DAC	294832	2
Bombastus	Base cream DAC	294833	3
Bombastus	Base cream DAC	294836	1
Bombastus	Base cream DAC	294837	1
Bombastus	Base cream DAC	294838	2
Bombastus	Base cream DAC	294840	2
Bombastus	Base cream DAC	294841	2
Bombastus	Base cream DAC	294842	4
Bombastus	Base cream DAC	294843	5
Bombastus	Base cream DAC	295837	1
Bombastus	Base cream DAC	295897	4
Bombastus	Base cream DAC	295899	2
Bombastus	Base cream DAC	295900	1
Bombastus	Base cream DAC	295901	1
Bombastus	Base cream DAC	296152	2
Bombastus	Base cream DAC	296155	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	296156	2
Bombastus	Base cream DAC	296221	1
Bombastus	Base cream DAC	296222	1
Bombastus	Base cream DAC	296224	4
Bombastus	Base cream DAC	296225	6
Bombastus	Base cream DAC	296226	3
Bombastus	Base cream DAC	296227	1
Bombastus	Base cream DAC	296228	1
Bombastus	Base cream DAC	296229	4
Bombastus	Base cream DAC	296230	3
Bombastus	Base cream DAC	296231	3
Bombastus	Base cream DAC	297480	1
Bombastus	Base cream DAC	297482	2
Bombastus	Base cream DAC	297484	3
Bombastus	Base cream DAC	297494	4
Bombastus	Base cream DAC	297495	1
Bombastus	Base cream DAC	297496	1
Bombastus	Base cream DAC	297497	1
Bombastus	Base cream DAC	297498	2
Bombastus	Base cream DAC	297500	2
Bombastus	Base cream DAC	298170	2
Bombastus	Base cream DAC	298171	1
Bombastus	Base cream DAC	298172	1
Bombastus	Base cream DAC	298173	2
Bombastus	Base cream DAC	298256	5
Bombastus	Base cream DAC	298257	2
Bombastus	Base cream DAC	298259	5
Bombastus	Base cream DAC	298260	1
Bombastus	Base cream DAC	298261	2
Bombastus	Base cream DAC	298262	3
Bombastus	Base cream DAC	298263	2
Bombastus	Base cream DAC	298264	3
Bombastus	Base cream DAC	298265	5
Bombastus	Base cream DAC	298266	2
Bombastus	Base cream DAC	298267	4
Bombastus	Base cream DAC	299319	1
Bombastus	Base cream DAC	299320	4
Bombastus	Base cream DAC	299321	2
Bombastus	Base cream DAC	299322	3
Bombastus	Base cream DAC	299323	4
Bombastus	Base cream DAC	299324	2
Bombastus	Base cream DAC	299325	3
Bombastus	Base cream DAC	299326	1
Bombastus	Base cream DAC	299943	1
Bombastus	Base cream DAC	299945	1
Bombastus	Base cream DAC	299947	3
Bombastus	Base cream DAC	299948	4
Bombastus	Base cream DAC	299950	3
Bombastus	Base cream DAC	30001	1
Bombastus	Base cream DAC	300011	4
Bombastus	Base cream DAC	300012	1
Bombastus	Base cream DAC	300013	4
Bombastus	Base cream DAC	300014	6
Bombastus	Base cream DAC	300015	3
Bombastus	Base cream DAC	301147	1
Bombastus	Base cream DAC	301148	1
Bombastus	Base cream DAC	301151	1
Bombastus	Base cream DAC	301153	1
Bombastus	Base cream DAC	301154	1
Bombastus	Base cream DAC	301155	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	301156	2
Bombastus	Base cream DAC	301157	2
Bombastus	Base cream DAC	301158	3
Bombastus	Base cream DAC	301159	4
Bombastus	Base cream DAC	301160	6
Bombastus	Base cream DAC	301721	1
Bombastus	Base cream DAC	301722	2
Bombastus	Base cream DAC	301737	1
Bombastus	Base cream DAC	301738	1
Bombastus	Base cream DAC	301741	1
Bombastus	Base cream DAC	301743	3
Bombastus	Base cream DAC	301745	7
Bombastus	Base cream DAC	301746	1
Bombastus	Base cream DAC	301754	1
Bombastus	Base cream DAC	301755	1
Bombastus	Base cream DAC	301756	1
Bombastus	Base cream DAC	301757	5
Bombastus	Base cream DAC	301758	3
Bombastus	Base cream DAC	301759	4
Bombastus	Base cream DAC	301760	2
Bombastus	Base cream DAC	303052	2
Bombastus	Base cream DAC	303055	6
Bombastus	Base cream DAC	303056	5
Bombastus	Base cream DAC	303057	3
Bombastus	Base cream DAC	303058	4
Bombastus	Base cream DAC	303059	3
Bombastus	Base cream DAC	303060	3
Bombastus	Base cream DAC	303061	3
Bombastus	Base cream DAC	303062	4
Bombastus	Base cream DAC	303063	2
Bombastus	Base cream DAC	303133	1
Bombastus	Base cream DAC	303135	2
Bombastus	Base cream DAC	303136	1
Bombastus	Base cream DAC	303413	2
Bombastus	Base cream DAC	303414	4
Bombastus	Base cream DAC	303415	2
Bombastus	Base cream DAC	303416	1
Bombastus	Base cream DAC	303417	2
Bombastus	Base cream DAC	303419	5
Bombastus	Base cream DAC	303420	3
Bombastus	Base cream DAC	303422	3
Bombastus	Base cream DAC	303423	4
Bombastus	Base cream DAC	303424	1
Bombastus	Base cream DAC	303425	2
Bombastus	Base cream DAC	303427	1
Bombastus	Base cream DAC	303428	2
Bombastus	Base cream DAC	303429	8
Bombastus	Base cream DAC	3042362	1
Bombastus	Base cream DAC	304341	1
Bombastus	Base cream DAC	304342	2
Bombastus	Base cream DAC	304343	1
Bombastus	Base cream DAC	304344	1
Bombastus	Base cream DAC	304351	2
Bombastus	Base cream DAC	304352	5
Bombastus	Base cream DAC	304353	2
Bombastus	Base cream DAC	304354	4
Bombastus	Base cream DAC	304355	4
Bombastus	Base cream DAC	304356	1
Bombastus	Base cream DAC	304358	1
Bombastus	Base cream DAC	304359	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	304360	4
Bombastus	Base cream DAC	304361	3
Bombastus	Base cream DAC	305692	1
Bombastus	Base cream DAC	305693	2
Bombastus	Base cream DAC	305694	1
Bombastus	Base cream DAC	305695	2
Bombastus	Base cream DAC	305710	3
Bombastus	Base cream DAC	305711	3
Bombastus	Base cream DAC	305712	1
Bombastus	Base cream DAC	305713	2
Bombastus	Base cream DAC	305714	3
Bombastus	Base cream DAC	305715	5
Bombastus	Base cream DAC	30572	1
Bombastus	Base cream DAC	305728	3
Bombastus	Base cream DAC	305729	3
Bombastus	Base cream DAC	305730	5
Bombastus	Base cream DAC	305731	4
Bombastus	Base cream DAC	305733	2
Bombastus	Base cream DAC	305734	4
Bombastus	Base cream DAC	305735	2
Bombastus	Base cream DAC	306601	2
Bombastus	Base cream DAC	306602	1
Bombastus	Base cream DAC	306604	3
Bombastus	Base cream DAC	306606	1
Bombastus	Base cream DAC	306607	1
Bombastus	Base cream DAC	306608	1
Bombastus	Base cream DAC	306609	5
Bombastus	Base cream DAC	306610	7
Bombastus	Base cream DAC	306611	4
Bombastus	Base cream DAC	306613	4
Bombastus	Base cream DAC	306614	3
Bombastus	Base cream DAC	306615	7
Bombastus	Base cream DAC	306616	2
Bombastus	Base cream DAC	306617	1
Bombastus	Base cream DAC	306618	5
Bombastus	Base cream DAC	306619	2
Bombastus	Base cream DAC	306620	1
Bombastus	Base cream DAC	306621	8
Bombastus	Base cream DAC	306623	3
Bombastus	Base cream DAC	306624	2
Bombastus	Base cream DAC	307829	3
Bombastus	Base cream DAC	307830	3
Bombastus	Base cream DAC	307832	1
Bombastus	Base cream DAC	307834	6
Bombastus	Base cream DAC	307958	1
Bombastus	Base cream DAC	307959	1
Bombastus	Base cream DAC	307961	4
Bombastus	Base cream DAC	307962	1
Bombastus	Base cream DAC	307963	1
Bombastus	Base cream DAC	307964	1
Bombastus	Base cream DAC	307965	5
Bombastus	Base cream DAC	307966	1
Bombastus	Base cream DAC	307967	5
Bombastus	Base cream DAC	307968	3
Bombastus	Base cream DAC	307969	1
Bombastus	Base cream DAC	307970	4
Bombastus	Base cream DAC	307971	3
Bombastus	Base cream DAC	307996	1
Bombastus	Base cream DAC	308791	1
Bombastus	Base cream DAC	308794	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream DAC	308795	1
Bombastus	Base cream DAC	308796	4
Bombastus	Base cream DAC	308797	1
Bombastus	Base cream DAC	308798	3
Bombastus	Base cream DAC	308799	8
Bombastus	Base cream DAC	308800	3
Bombastus	Base cream DAC	308801	7
Bombastus	Base cream DAC	308802	1
Bombastus	Base cream DAC	308804	5
Bombastus	Base cream DAC	308805	2
Bombastus	Base cream DAC	309923	2
Bombastus	Base cream DAC	310717	1
Bombastus	Base cream DAC	310719	3
Bombastus	Base cream DAC	310720	2
Bombastus	Base cream DAC	310722	1
Bombastus	Base cream DAC	310723	3
Bombastus	Base cream DAC	310724	3
Bombastus	Base cream DAC	310725	2
Bombastus	Base cream DAC	310726	4
Bombastus	Base cream DAC	310730	1
Bombastus	Base cream DAC	310746	3
Bombastus	Base cream DAC	310747	6
Bombastus	Base cream DAC	310748	2
Bombastus	Base cream DAC	310749	7
Bombastus	Base cream DAC	310750	2
Bombastus	Base cream DAC	310751	6
Bombastus	Base cream DAC	310752	4
Bombastus	Base cream DAC	310753	12
Bombastus	Base cream DAC	310755	2
Bombastus	Base cream DAC	310756	4
Bombastus	Base cream DAC	459502	1
Bombastus	Base cream DAC	538/2	2
Bombastus	Base cream DAC	6004859006	1
Bombastus	Base cream DAC	60090501	1
Bombastus	Base cream DAC	60090502	13
Bombastus	Base cream DAC	60090504	2
Bombastus	Base cream DAC	6862441	5
Bombastus	Base cream DAC	8004134007	1
Bombastus	Base cream DAC	bombastus	1
Bombastus	Base cream DAC	CHB289803	1
Bombastus	Base cream DAC	LD251118	1
Bombatus	Base cream DAC	19002674	1
BOMBATUS	Base cream DAC	6009252	1
Bombstus/Gehe	Base cream DAC	301742	1
Bombstus/Gehe	Base cream DAC	301744	1
Bombstus	Base cream DAC	1700907	1
Bombstus	Base cream DAC	310752	1
Caaelo/Phoenix	Base cream DAC	20001856001	1
Caaelo	Base cream DAC	16101901	1
Caealo/Gehe	Base cream DAC	19003701	1
Caeanlo	Base cream DAC	16232001	1
Caeklo/gehe/8,27	Base cream DAC	18193301	1
Caeko	Base cream DAC	16220201	1
Cael/Phönix	Base cream DAC	17243401	1
cael	Base cream DAC	20003473001	1
Caela/ Noweda	Base cream DAC	18037901	1
Caeli / Kehr	Base cream DAC	17029001	1
Caelo	Base cream DAC		25
Caelo	Base cream DAC	(2x)16005101	1
Caelo	Base cream DAC	100(18166401)	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	1004211309	1
Caelo	Base cream DAC	101(18166602)	1
Caelo	Base cream DAC	1013Q-01309	2
Caelo	Base cream DAC	102(18192701)	1
Caelo	Base cream DAC	103(18193201)	1
Caelo	Base cream DAC	104(18232501	1
Caelo	Base cream DAC	1040417	1
Caelo	Base cream DAC	1040917/17147401	1
Caelo	Base cream DAC	105(18269301)	1
Caelo	Base cream DAC	106(18272301)	1
Caelo	Base cream DAC	1061303	1
Caelo	Base cream DAC	107(18269601)	1
Caelo	Base cream DAC	107805-815	1
Caelo	Base cream DAC	108(19052501)	1
Caelo	Base cream DAC	10801968	1
Caelo	Base cream DAC	1081117/17229201	1
Caelo	Base cream DAC	1081302	1
Caelo	Base cream DAC	109(19170501)	1
Caelo	Base cream DAC	109647	1
Caelo	Base cream DAC	1096947	3
Caelo	Base cream DAC	110(19147901)	1
Caelo	Base cream DAC	1100717/17124001	1
Caelo	Base cream DAC	11011405	1
Caelo	Base cream DAC	11081803	1
Caelo	Base cream DAC	11087101	1
Caelo	Base cream DAC	1109211309	1
Caelo	Base cream DAC	11101302	1
Caelo	Base cream DAC	1110517/16326001	1
Caelo	Base cream DAC	11206201	2
Caelo	Base cream DAC	11278701	1
Caelo	Base cream DAC	11279301	3
Caelo	Base cream DAC	11279401	1
Caelo	Base cream DAC	11295801	2
Caelo	Base cream DAC	11296301	1
Caelo	Base cream DAC	11296601	1
Caelo	Base cream DAC	11297001	1
Caelo	Base cream DAC	11297201	9
Caelo	Base cream DAC	11330101	2
Caelo	Base cream DAC	11330201	1
Caelo	Base cream DAC	11330301	1
Caelo	Base cream DAC	11330601	1
Caelo	Base cream DAC	1140116	1
Caelo	Base cream DAC	1165401	1
Caelo	Base cream DAC	12000401	1
Caelo	Base cream DAC	12000501	3
Caelo	Base cream DAC	12000601	1
Caelo	Base cream DAC	12004901	2
Caelo	Base cream DAC	12005101	3
Caelo	Base cream DAC	12005201	2
Caelo	Base cream DAC	12005401	1
Caelo	Base cream DAC	12005501	4
Caelo	Base cream DAC	12005701	6
Caelo	Base cream DAC	1202001	2
Caelo	Base cream DAC	1205007-01	2
Caelo	Base cream DAC	12061601	1
Caelo	Base cream DAC	12061701	1
Caelo	Base cream DAC	12062001	1
Caelo	Base cream DAC	12062601	1
Caelo	Base cream DAC	12062701	2
Caelo	Base cream DAC	12062801	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	12062901	1
Caelo	Base cream DAC	12063001	2
Caelo	Base cream DAC	12071202	1
Caelo	Base cream DAC	121(200006860019	1
Caelo	Base cream DAC	12101203	1
Caelo	Base cream DAC	12111202	1
Caelo	Base cream DAC	12116001	1
Caelo	Base cream DAC	1213M-01309	1
Caelo	Base cream DAC	1214I01309	1
Caelo	Base cream DAC	12159201	1
Caelo	Base cream DAC	12159301	1
Caelo	Base cream DAC	12159401	2
Caelo	Base cream DAC	12159601	5
Caelo	Base cream DAC	12167901	12
Caelo	Base cream DAC	12168001	1
Caelo	Base cream DAC	12168101	2
Caelo	Base cream DAC	12168201	1
Caelo	Base cream DAC	12168301	1
Caelo	Base cream DAC	12174801	3
Caelo	Base cream DAC	12174901	1
Caelo	Base cream DAC	12175001	5
Caelo	Base cream DAC	12175101	1
Caelo	Base cream DAC	12175201	2
Caelo	Base cream DAC	12178301	4
Caelo	Base cream DAC	12178401	3
Caelo	Base cream DAC	12191701	3
Caelo	Base cream DAC	12191801	4
Caelo	Base cream DAC	12191901	14
Caelo	Base cream DAC	12191902	1
Caelo	Base cream DAC	12192001	1
Caelo	Base cream DAC	12192101	1
Caelo	Base cream DAC	12192201	2
Caelo	Base cream DAC	122(20001677001)	1
Caelo	Base cream DAC	12240801	1
Caelo	Base cream DAC	12240901	3
Caelo	Base cream DAC	12241001	5
Caelo	Base cream DAC	12241101	1
Caelo	Base cream DAC	12241201	1
Caelo	Base cream DAC	12245001	2
Caelo	Base cream DAC	12245101	2
Caelo	Base cream DAC	12245201	1
Caelo	Base cream DAC	12249401	2
Caelo	Base cream DAC	12249501	2
Caelo	Base cream DAC	12249701	1
Caelo	Base cream DAC	12262402	3
Caelo	Base cream DAC	12262501	5
Caelo	Base cream DAC	12262601	3
Caelo	Base cream DAC	12262801	6
Caelo	Base cream DAC	1226290	1
Caelo	Base cream DAC	12262901	3
Caelo	Base cream DAC	12263001	1
Caelo	Base cream DAC	12263101	4
Caelo	Base cream DAC	12263201	6
Caelo	Base cream DAC	12263301	3
Caelo	Base cream DAC	12263401	4
Caelo	Base cream DAC	12289701	5
Caelo	Base cream DAC	123(20001864001)	1
Caelo	Base cream DAC	12303901	2
Caelo	Base cream DAC	12304701	9
Caelo	Base cream DAC	12304801	12

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	12304901	3
Caelo	Base cream DAC	12305001	5
Caelo	Base cream DAC	12305101	1
Caelo	Base cream DAC	12305301	4
Caelo	Base cream DAC	1230901	1
Caelo	Base cream DAC	1233333	1
Caelo	Base cream DAC	12339001	2
Caelo	Base cream DAC	12339101	1
Caelo	Base cream DAC	12339201	12
Caelo	Base cream DAC	12339301	4
Caelo	Base cream DAC	12339401	6
Caelo	Base cream DAC	1234	1
Caelo	Base cream DAC	12343801	5
Caelo	Base cream DAC	12344001	1
Caelo	Base cream DAC	12347101	2
Caelo	Base cream DAC	12347201	1
Caelo	Base cream DAC	12347301	5
Caelo	Base cream DAC	12347401	5
Caelo	Base cream DAC	12384002	2
Caelo	Base cream DAC	1239201	1
Caelo	Base cream DAC	124(20001850001)	1
Caelo	Base cream DAC	125(2003191001)	1
Caelo	Base cream DAC	125044-1	1
Caelo	Base cream DAC	126(20004315001)	1
Caelo	Base cream DAC	126328901	1
Caelo	Base cream DAC	127(20003474001)	1
Caelo	Base cream DAC	128(20003831001)	1
Caelo	Base cream DAC	1291116	1
Caelo	Base cream DAC	130000601	1
Caelo	Base cream DAC	13000501	1
Caelo	Base cream DAC	13000601	1
Caelo	Base cream DAC	13000701	2
Caelo	Base cream DAC	13000801	2
Caelo	Base cream DAC	13000901	1
Caelo	Base cream DAC	13007001	5
Caelo	Base cream DAC	13007101	5
Caelo	Base cream DAC	13007201	3
Caelo	Base cream DAC	13007301	2
Caelo	Base cream DAC	1301023-01	1
Caelo	Base cream DAC	13011808	1
Caelo	Base cream DAC	13012301	2
Caelo	Base cream DAC	13012401	10
Caelo	Base cream DAC	13012501	3
Caelo	Base cream DAC	13012601	2
Caelo	Base cream DAC	13016801	2
Caelo	Base cream DAC	1301681	1
Caelo	Base cream DAC	13016901	3
Caelo	Base cream DAC	13017001	2
Caelo	Base cream DAC	13017101	1
Caelo	Base cream DAC	13017201	4
Caelo	Base cream DAC	13022401	3
Caelo	Base cream DAC	13051503	1
Caelo	Base cream DAC	1306002-01	1
Caelo	Base cream DAC	1306031-01	1
Caelo	Base cream DAC	1307003-01	1
Caelo	Base cream DAC	130704501	1
Caelo	Base cream DAC	13082101	10
Caelo	Base cream DAC	13082203	7
Caelo	Base cream DAC	13083101	3
Caelo	Base cream DAC	131100701	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	1311009-01	1
Caelo	Base cream DAC	13111101	3
Caelo	Base cream DAC	13111201	4
Caelo	Base cream DAC	13111301	5
Caelo	Base cream DAC	13111401	2
Caelo	Base cream DAC	13115601	8
Caelo	Base cream DAC	13115701	2
Caelo	Base cream DAC	13115801	4
Caelo	Base cream DAC	13115901	2
Caelo	Base cream DAC	13116001	2
Caelo	Base cream DAC	13119901	1
Caelo	Base cream DAC	13120001	2
Caelo	Base cream DAC	1312001-01	1
Caelo	Base cream DAC	13120101	5
Caelo	Base cream DAC	13120201	5
Caelo	Base cream DAC	13120301	8
Caelo	Base cream DAC	131203801	1
Caelo	Base cream DAC	13125001	4
Caelo	Base cream DAC	13125101	2
Caelo	Base cream DAC	13139702	10
Caelo	Base cream DAC	13139801	5
Caelo	Base cream DAC	13139901	14
Caelo	Base cream DAC	13140001	5
Caelo	Base cream DAC	1315601	1
Caelo	Base cream DAC	13158401	1
Caelo	Base cream DAC	13158440	1
Caelo	Base cream DAC	13158501	8
Caelo	Base cream DAC	13158601	5
Caelo	Base cream DAC	13158701	1
Caelo	Base cream DAC	13158801	2
Caelo	Base cream DAC	13173301	2
Caelo	Base cream DAC	13173501	4
Caelo	Base cream DAC	13173601	14
Caelo	Base cream DAC	13173701	5
Caelo	Base cream DAC	1318701	1
Caelo	Base cream DAC	13187701	2
Caelo	Base cream DAC	13187801	11
Caelo	Base cream DAC	13187901	9
Caelo	Base cream DAC	13188001	6
Caelo	Base cream DAC	13188101	3
Caelo	Base cream DAC	13188401	6
Caelo	Base cream DAC	13188501	12
Caelo	Base cream DAC	13188601	4
Caelo	Base cream DAC	13188701	11
Caelo	Base cream DAC	13188801	2
Caelo	Base cream DAC	1319702	1
Caelo	Base cream DAC	13198301	4
Caelo	Base cream DAC	13198401	1
Caelo	Base cream DAC	13198501	2
Caelo	Base cream DAC	13198601	8
Caelo	Base cream DAC	13198701	11
Caelo	Base cream DAC	13198801	20
Caelo	Base cream DAC	13198901	8
Caelo	Base cream DAC	13199001	12
Caelo	Base cream DAC	1319901	2
Caelo	Base cream DAC	13199101	19
Caelo	Base cream DAC	132011-01	1
Caelo	Base cream DAC	13249701	10
Caelo	Base cream DAC	13249702	3
Caelo	Base cream DAC	13249801	6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	13249901	2
Caelo	Base cream DAC	13250001	8
Caelo	Base cream DAC	13252101	4
Caelo	Base cream DAC	13310901	7
Caelo	Base cream DAC	13311101	3
Caelo	Base cream DAC	13311201	11
Caelo	Base cream DAC	13311301	11
Caelo	Base cream DAC	13311301-3462312170	1
Caelo	Base cream DAC	13311401	10
Caelo	Base cream DAC	13311502	3
Caelo	Base cream DAC	13311601	4
Caelo	Base cream DAC	13311606	1
Caelo	Base cream DAC	13311701	5
Caelo	Base cream DAC	13311801	7
Caelo	Base cream DAC	13311901	5
Caelo	Base cream DAC	13312001	6
Caelo	Base cream DAC	1331201	1
Caelo	Base cream DAC	13312101	2
Caelo	Base cream DAC	13312201	4
Caelo	Base cream DAC	13312301	4
Caelo	Base cream DAC	13312401	2
Caelo	Base cream DAC	1331502	1
Caelo	Base cream DAC	1334701	1
Caelo	Base cream DAC	13347101	20
Caelo	Base cream DAC	13347201	6
Caelo	Base cream DAC	13347301	7
Caelo	Base cream DAC	13377201	11
Caelo	Base cream DAC	13377901	6
Caelo	Base cream DAC	13378001	9
Caelo	Base cream DAC	13378101	6
Caelo	Base cream DAC	13378201	7
Caelo	Base cream DAC	13380901	11
Caelo	Base cream DAC	1338091	1
Caelo	Base cream DAC	13381001	16
Caelo	Base cream DAC	13381101	2
Caelo	Base cream DAC	13381201	7
Caelo	Base cream DAC	13384901	10
Caelo	Base cream DAC	13385101	6
Caelo	Base cream DAC	13385201	5
Caelo	Base cream DAC	13385301	5
Caelo	Base cream DAC	13386001	7
Caelo	Base cream DAC	13386101	2
Caelo	Base cream DAC	13386201	5
Caelo	Base cream DAC	1346001	2
Caelo	Base cream DAC	13480119	1
Caelo	Base cream DAC	1352701	1
Caelo	Base cream DAC	13812013	1
Caelo	Base cream DAC	1387801	1
Caelo	Base cream DAC	13A09-T10-232	2
Caelo	Base cream DAC	13E21-T06-003900	1
Caelo	Base cream DAC	13E21-T08-003906	2
Caelo	Base cream DAC	13E22-T08-003987	1
Caelo	Base cream DAC	13E23-T10-004023	1
Caelo	Base cream DAC	13H14-T01-006203	2
Caelo	Base cream DAC	13H14T05-006551	1
Caelo	Base cream DAC	13K12-T06-008054	2
Caelo	Base cream DAC	13K12-t07-008057	1
Caelo	Base cream DAC	1401020-01	1
Caelo	Base cream DAC	1401024-01	1
Caelo	Base cream DAC	1401025-01	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	14011515	1
Caelo	Base cream DAC	14035801	1
Caelo	Base cream DAC	14035901	3
Caelo	Base cream DAC	14036001	2
Caelo	Base cream DAC	14036101	4
Caelo	Base cream DAC	14036201	12
Caelo	Base cream DAC	140409	1
Caelo	Base cream DAC	14052901	13
Caelo	Base cream DAC	14053001	4
Caelo	Base cream DAC	14053002	2
Caelo	Base cream DAC	14053101	2
Caelo	Base cream DAC	14053201	1
Caelo	Base cream DAC	14053301	2
Caelo	Base cream DAC	14053401	3
Caelo	Base cream DAC	14053501	1
Caelo	Base cream DAC	14053601	4
Caelo	Base cream DAC	14053701	7
Caelo	Base cream DAC	140705401	1
Caelo	Base cream DAC	1408009-01	1
Caelo	Base cream DAC	14090401	10
Caelo	Base cream DAC	1409041	1
Caelo	Base cream DAC	14090501	1
Caelo	Base cream DAC	14090601	10
Caelo	Base cream DAC	14090701	7
Caelo	Base cream DAC	14090801	11
Caelo	Base cream DAC	1409101	1
Caelo	Base cream DAC	14091401	3
Caelo	Base cream DAC	14091501	9
Caelo	Base cream DAC	14091601	7
Caelo	Base cream DAC	14091701	11
Caelo	Base cream DAC	14091801	7
Caelo	Base cream DAC	14091901	6
Caelo	Base cream DAC	14092001	9
Caelo	Base cream DAC	14121-01309	1
Caelo	Base cream DAC	14130715	1
Caelo	Base cream DAC	14140817	4
Caelo	Base cream DAC	14143801	7
Caelo	Base cream DAC	14143901	6
Caelo	Base cream DAC	14144001	5
Caelo	Base cream DAC	14144101	11
Caelo	Base cream DAC	14144201	3
Caelo	Base cream DAC	14144202	1
Caelo	Base cream DAC	1415001	1
Caelo	Base cream DAC	14151001	8
Caelo	Base cream DAC	14151101	3
Caelo	Base cream DAC	14151301	2
Caelo	Base cream DAC	14151401	7
Caelo	Base cream DAC	14151501	10
Caelo	Base cream DAC	14151601	9
Caelo	Base cream DAC	14151701	1
Caelo	Base cream DAC	14151801	4
Caelo	Base cream DAC	14151901	4
Caelo	Base cream DAC	14177501	9
Caelo	Base cream DAC	14177601	1
Caelo	Base cream DAC	14177701	5
Caelo	Base cream DAC	1417780	1
Caelo	Base cream DAC	14177801	2
Caelo	Base cream DAC	14177901	5
Caelo	Base cream DAC	14178001	6
Caelo	Base cream DAC	14178101	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	14178201	16
Caelo	Base cream DAC	14178401	5
Caelo	Base cream DAC	1418E-01309	1
Caelo	Base cream DAC	14222801	2
Caelo	Base cream DAC	14222901	1
Caelo	Base cream DAC	14223001	1
Caelo	Base cream DAC	14223201	12
Caelo	Base cream DAC	14227601	3
Caelo	Base cream DAC	14227701	5
Caelo	Base cream DAC	14227801	9
Caelo	Base cream DAC	14227901	4
Caelo	Base cream DAC	14228001	1
Caelo	Base cream DAC	142285	1
Caelo	Base cream DAC	1423101	1
Caelo	Base cream DAC	14232001	6
Caelo	Base cream DAC	14232101	7
Caelo	Base cream DAC	14232201	10
Caelo	Base cream DAC	14232301	4
Caelo	Base cream DAC	14238101	3
Caelo	Base cream DAC	14238201	2
Caelo	Base cream DAC	14238301	8
Caelo	Base cream DAC	14238401	3
Caelo	Base cream DAC	14238501	2
Caelo	Base cream DAC	14244501	5
Caelo	Base cream DAC	14263201	3
Caelo	Base cream DAC	14263301	6
Caelo	Base cream DAC	1426331	1
Caelo	Base cream DAC	14263401	3
Caelo	Base cream DAC	14263601	3
Caelo	Base cream DAC	14274601	1
Caelo	Base cream DAC	1428201	1
Caelo	Base cream DAC	14289601	10
Caelo	Base cream DAC	14289701	7
Caelo	Base cream DAC	14289801	12
Caelo	Base cream DAC	14289901	11
Caelo	Base cream DAC	14290001	7
Caelo	Base cream DAC	14290101	3
Caelo	Base cream DAC	14303101	5
Caelo	Base cream DAC	14303301	3
Caelo	Base cream DAC	14303401	1
Caelo	Base cream DAC	14303501	3
Caelo	Base cream DAC	14303801	8
Caelo	Base cream DAC	14303901	16
Caelo	Base cream DAC	14325101	2
Caelo	Base cream DAC	14325201	1
Caelo	Base cream DAC	14325401	2
Caelo	Base cream DAC	14325501	1
Caelo	Base cream DAC	14325601	1
Caelo	Base cream DAC	14325701	1
Caelo	Base cream DAC	14325801	2
Caelo	Base cream DAC	14325901	1
Caelo	Base cream DAC	14326701	18
Caelo	Base cream DAC	14326801	8
Caelo	Base cream DAC	14326901	5
Caelo	Base cream DAC	14327001	9
Caelo	Base cream DAC	14327101	3
Caelo	Base cream DAC	14327301	4
Caelo	Base cream DAC	14327401	3
Caelo	Base cream DAC	14327501	8
Caelo	Base cream DAC	14327601	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	14327701	8
Caelo	Base cream DAC	14327801	2
Caelo	Base cream DAC	14327901	9
Caelo	Base cream DAC	14328001	5
Caelo	Base cream DAC	14368001	8
Caelo	Base cream DAC	14368101	9
Caelo	Base cream DAC	14368201	4
Caelo	Base cream DAC	14374201	3
Caelo	Base cream DAC	14374301	2
Caelo	Base cream DAC	14374401	2
Caelo	Base cream DAC	14374501	3
Caelo	Base cream DAC	14A10-T06-009259	1
Caelo	Base cream DAC	14D08-011697	1
Caelo	Base cream DAC	14D08T04-011692	1
Caelo	Base cream DAC	14D08-T05-011698	1
Caelo	Base cream DAC	14f05-t07-012965	1
Caelo	Base cream DAC	14j07T06015957	1
Caelo	Base cream DAC	15/138/B	1
Caelo	Base cream DAC	15000701	5
Caelo	Base cream DAC	15000801	4
Caelo	Base cream DAC	150008501	1
Caelo	Base cream DAC	15000901	8
Caelo	Base cream DAC	15004001	5
Caelo	Base cream DAC	1501019-01	1
Caelo	Base cream DAC	1501039-1	1
Caelo	Base cream DAC	1501052-01	1
Caelo	Base cream DAC	1502016-01	1
Caelo	Base cream DAC	1502027-01	1
Caelo	Base cream DAC	1502028-01	1
Caelo	Base cream DAC	15031805	1
Caelo	Base cream DAC	15040601	16
Caelo	Base cream DAC	15040701	11
Caelo	Base cream DAC	15040801	6
Caelo	Base cream DAC	15040901	7
Caelo	Base cream DAC	15041001	8
Caelo	Base cream DAC	15041101	9
Caelo	Base cream DAC	15054501	1
Caelo	Base cream DAC	15064301	7
Caelo	Base cream DAC	15064401	7
Caelo	Base cream DAC	15064501	4
Caelo	Base cream DAC	15064601	2
Caelo	Base cream DAC	15064701	14
Caelo	Base cream DAC	150671	1
Caelo	Base cream DAC	15070101	12
Caelo	Base cream DAC	1507018-01	1
Caelo	Base cream DAC	15070201	12
Caelo	Base cream DAC	15071405	1
Caelo	Base cream DAC	15083001	1
Caelo	Base cream DAC	15083101	1
Caelo	Base cream DAC	15083201	1
Caelo	Base cream DAC	1509021-01	1
Caelo	Base cream DAC	1510030-01	1
Caelo	Base cream DAC	1511001-01	1
Caelo	Base cream DAC	151191001	1
Caelo	Base cream DAC	1512002-01	1
Caelo	Base cream DAC	1513301	1
Caelo	Base cream DAC	151564501	1
Caelo	Base cream DAC	15164301	1
Caelo	Base cream DAC	15164401	4
Caelo	Base cream DAC	15164501	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	15164601	15
Caelo	Base cream DAC	15164701	11
Caelo	Base cream DAC	15166601	5
Caelo	Base cream DAC	15166701	4
Caelo	Base cream DAC	15166801	11
Caelo	Base cream DAC	15166901	7
Caelo	Base cream DAC	15167001	18
Caelo	Base cream DAC	15173201	6
Caelo	Base cream DAC	15173301	1
Caelo	Base cream DAC	15173401	8
Caelo	Base cream DAC	15173501	7
Caelo	Base cream DAC	15173601	10
Caelo	Base cream DAC	15184001	4
Caelo	Base cream DAC	15184101	4
Caelo	Base cream DAC	15184201	1
Caelo	Base cream DAC	15184301	9
Caelo	Base cream DAC	15184401	17
Caelo	Base cream DAC	1518901	2
Caelo	Base cream DAC	15190501	1
Caelo	Base cream DAC	15190601	2
Caelo	Base cream DAC	15190701	1
Caelo	Base cream DAC	15190901	3
Caelo	Base cream DAC	15191001	9
Caelo	Base cream DAC	15191102	5
Caelo	Base cream DAC	15191201	1
Caelo	Base cream DAC	15191202	8
Caelo	Base cream DAC	15191301	2
Caelo	Base cream DAC	15191401	2
Caelo	Base cream DAC	1520601	1
Caelo	Base cream DAC	1524001	4
Caelo	Base cream DAC	15241901	5
Caelo	Base cream DAC	15242001	15
Caelo	Base cream DAC	15250001	6
Caelo	Base cream DAC	15250101	10
Caelo	Base cream DAC	15250201	7
Caelo	Base cream DAC	15250301	13
Caelo	Base cream DAC	15250501	17
Caelo	Base cream DAC	15250601	3
Caelo	Base cream DAC	15250701	3
Caelo	Base cream DAC	15250801	10
Caelo	Base cream DAC	15250902	24
Caelo	Base cream DAC	15272201	20
Caelo	Base cream DAC	15272301	11
Caelo	Base cream DAC	15272402	9
Caelo	Base cream DAC	15272501	1
Caelo	Base cream DAC	15272601	2
Caelo	Base cream DAC	15306101	1
Caelo	Base cream DAC	15306401	16
Caelo	Base cream DAC	15306501	8
Caelo	Base cream DAC	15306601	4
Caelo	Base cream DAC	15306701	10
Caelo	Base cream DAC	15313501	1
Caelo	Base cream DAC	15313601	4
Caelo	Base cream DAC	15315301	10
Caelo	Base cream DAC	15315401	11
Caelo	Base cream DAC	15318801	10
Caelo	Base cream DAC	15318901	10
Caelo	Base cream DAC	15357601	17
Caelo	Base cream DAC	15357701	14
Caelo	Base cream DAC	15357801	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	153868	1
Caelo	Base cream DAC	15386801	1
Caelo	Base cream DAC	15386901	5
Caelo	Base cream DAC	15387001	3
Caelo	Base cream DAC	15387101	7
Caelo	Base cream DAC	15387201	13
Caelo	Base cream DAC	15390301	2
Caelo	Base cream DAC	15390401	4
Caelo	Base cream DAC	15390501	3
Caelo	Base cream DAC	15390601	4
Caelo	Base cream DAC	15390701	2
Caelo	Base cream DAC	15390801	10
Caelo	Base cream DAC	15390901	4
Caelo	Base cream DAC	15391001	6
Caelo	Base cream DAC	1539101	1
Caelo	Base cream DAC	15391101	4
Caelo	Base cream DAC	15391201	6
Caelo	Base cream DAC	1541901	1
Caelo	Base cream DAC	15419901	13
Caelo	Base cream DAC	15420001	15
Caelo	Base cream DAC	15420001/20160309/4	1
Caelo	Base cream DAC	15420101	4
Caelo	Base cream DAC	15420201	10
Caelo	Base cream DAC	15420401	16
Caelo	Base cream DAC	1542041	1
Caelo	Base cream DAC	1566801	1
Caelo	Base cream DAC	15690518	1
Caelo	Base cream DAC	15700518	1
Caelo	Base cream DAC	15720518	1
Caelo	Base cream DAC	1587201	1
Caelo	Base cream DAC	15F30-T14-034792	1
Caelo	Base cream DAC	15H04-T08-024987	1
Caelo	Base cream DAC	15J13-T03-026895	1
Caelo	Base cream DAC	16/078/B	1
Caelo	Base cream DAC	16005101	14
Caelo	Base cream DAC	16005201	3
Caelo	Base cream DAC	16005301	8
Caelo	Base cream DAC	16005401	6
Caelo	Base cream DAC	16005501	7
Caelo	Base cream DAC	1601023-01	1
Caelo	Base cream DAC	1601027-01	1
Caelo	Base cream DAC	160102801	1
Caelo	Base cream DAC	1603015-01	1
Caelo	Base cream DAC	1603037-01	1
Caelo	Base cream DAC	1604001-01	1
Caelo	Base cream DAC	16041001	4
Caelo	Base cream DAC	16041301	3
Caelo	Base cream DAC	16041802	1
Caelo	Base cream DAC	1605101	1
Caelo	Base cream DAC	16055501	3
Caelo	Base cream DAC	16055601	3
Caelo	Base cream DAC	16055701	13
Caelo	Base cream DAC	16055801	10
Caelo	Base cream DAC	16055901	9
Caelo	Base cream DAC	1605801	1
Caelo	Base cream DAC	16058801	21
Caelo	Base cream DAC	16059101	3
Caelo	Base cream DAC	160592	1
Caelo	Base cream DAC	16059201	5
Caelo	Base cream DAC	16061402	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	160704	1
Caelo	Base cream DAC	1607601	1
Caelo	Base cream DAC	160809B	1
Caelo	Base cream DAC	16091901	6
Caelo	Base cream DAC	16097601	7
Caelo	Base cream DAC	160976012	1
Caelo	Base cream DAC	16101201	11
Caelo	Base cream DAC	16101301	6
Caelo	Base cream DAC	16101401	3
Caelo	Base cream DAC	16101901	8
Caelo	Base cream DAC	16102001	1
Caelo	Base cream DAC	16102101	4
Caelo	Base cream DAC	16102201	9
Caelo	Base cream DAC	16103701	5
Caelo	Base cream DAC	16103801	15
Caelo	Base cream DAC	16103901	11
Caelo	Base cream DAC	16104001	2
Caelo	Base cream DAC	16107417	1
Caelo	Base cream DAC	161111B/16155601	1
Caelo	Base cream DAC	16128901	7
Caelo	Base cream DAC	16131501	10
Caelo	Base cream DAC	16131901	9
Caelo	Base cream DAC	16132001	14
Caelo	Base cream DAC	16132101	15
Caelo	Base cream DAC	16132201	2
Caelo	Base cream DAC	16134701	14
Caelo	Base cream DAC	16134901	6
Caelo	Base cream DAC	16135001	19
Caelo	Base cream DAC	16135101	1
Caelo	Base cream DAC	16135201	8
Caelo	Base cream DAC	16135701	6
Caelo	Base cream DAC	16135801	3
Caelo	Base cream DAC	16135901	7
Caelo	Base cream DAC	16136001	6
Caelo	Base cream DAC	16136101	1
Caelo	Base cream DAC	16136201	9
Caelo	Base cream DAC	16136301	12
Caelo	Base cream DAC	16139701	1
Caelo	Base cream DAC	16145601	7
Caelo	Base cream DAC	16145701	13
Caelo	Base cream DAC	16145801	13
Caelo	Base cream DAC	16145901	1
Caelo	Base cream DAC	16146001	11
Caelo	Base cream DAC	16149901	17
Caelo	Base cream DAC	16150101	7
Caelo	Base cream DAC	16150201	2
Caelo	Base cream DAC	16150301	3
Caelo	Base cream DAC	16152101	2
Caelo	Base cream DAC	16152201	14
Caelo	Base cream DAC	16152401	6
Caelo	Base cream DAC	16155401	6
Caelo	Base cream DAC	16155501	8
Caelo	Base cream DAC	161555601	1
Caelo	Base cream DAC	16155601	9
Caelo	Base cream DAC	16155701	3
Caelo	Base cream DAC	16155801	5
Caelo	Base cream DAC	16158401	10
Caelo	Base cream DAC	16203301	5
Caelo	Base cream DAC	16205501	3
Caelo	Base cream DAC	16205601	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	16205801	13
Caelo	Base cream DAC	16206801	10
Caelo	Base cream DAC	16206902	1
Caelo	Base cream DAC	162070	1
Caelo	Base cream DAC	16207001	1
Caelo	Base cream DAC	16207101	1
Caelo	Base cream DAC	1620901	1
Caelo	Base cream DAC	16214801	12
Caelo	Base cream DAC	16219401	4
Caelo	Base cream DAC	1621941	1
Caelo	Base cream DAC	16219501	3
Caelo	Base cream DAC	16220201	4
Caelo	Base cream DAC	16220301	20
Caelo	Base cream DAC	16220401	25
Caelo	Base cream DAC	16220501	2
Caelo	Base cream DAC	16220601	3
Caelo	Base cream DAC	16226901	2
Caelo	Base cream DAC	16227001	3
Caelo	Base cream DAC	16227101	14
Caelo	Base cream DAC	16227201	4
Caelo	Base cream DAC	16231901	8
Caelo	Base cream DAC	16232001	10
Caelo	Base cream DAC	16232102	3
Caelo	Base cream DAC	16232201	2
Caelo	Base cream DAC	16232301	11
Caelo	Base cream DAC	16232401	4
Caelo	Base cream DAC	16232501	4
Caelo	Base cream DAC	16232601	6
Caelo	Base cream DAC	16232701	1
Caelo	Base cream DAC	16232801	1
Caelo	Base cream DAC	1623601	1
Caelo	Base cream DAC	16237801	5
Caelo	Base cream DAC	16237901	8
Caelo	Base cream DAC	16238001	1
Caelo	Base cream DAC	1623801	1
Caelo	Base cream DAC	16238102	4
Caelo	Base cream DAC	16238201	1
Caelo	Base cream DAC	16238301	15
Caelo	Base cream DAC	1624001	1
Caelo	Base cream DAC	16240301	6
Caelo	Base cream DAC	16240601	3
Caelo	Base cream DAC	16240701	11
Caelo	Base cream DAC	16241001	6
Caelo	Base cream DAC	16241601	8
Caelo	Base cream DAC	16241701	1
Caelo	Base cream DAC	16241707	1
Caelo	Base cream DAC	16242001	8
Caelo	Base cream DAC	16242201	7
Caelo	Base cream DAC	16249801	12
Caelo	Base cream DAC	16253101	7
Caelo	Base cream DAC	16253501	8
Caelo	Base cream DAC	16260501	3
Caelo	Base cream DAC	16260701	14
Caelo	Base cream DAC	16260801	12
Caelo	Base cream DAC	16260901	10
Caelo	Base cream DAC	16261002	4
Caelo	Base cream DAC	16261101	14
Caelo	Base cream DAC	16261101/1170117	1
Caelo	Base cream DAC	16261201	6
Caelo	Base cream DAC	16261301	8

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	16261401	8
Caelo	Base cream DAC	16261501	5
Caelo	Base cream DAC	16261602	4
Caelo	Base cream DAC	16261701	7
Caelo	Base cream DAC	16261801	6
Caelo	Base cream DAC	16261901	5
Caelo	Base cream DAC	16262001	4
Caelo	Base cream DAC	16262101	15
Caelo	Base cream DAC	16262301	2
Caelo	Base cream DAC	16269901	1
Caelo	Base cream DAC	16281101	1
Caelo	Base cream DAC	16318701	7
Caelo	Base cream DAC	16318702	2
Caelo	Base cream DAC	16318801	1
Caelo	Base cream DAC	16319301	4
Caelo	Base cream DAC	16319401	1
Caelo	Base cream DAC	16319501	2
Caelo	Base cream DAC	16319601	2
Caelo	Base cream DAC	16319701	3
Caelo	Base cream DAC	16325101	5
Caelo	Base cream DAC	16325801	12
Caelo	Base cream DAC	16325901	2
Caelo	Base cream DAC	16326001	19
Caelo	Base cream DAC	16326101	20
Caelo	Base cream DAC	16328901	2
Caelo	Base cream DAC	16329101	3
Caelo	Base cream DAC	16329201	6
Caelo	Base cream DAC	16349501	2
Caelo	Base cream DAC	16349502	8
Caelo	Base cream DAC	16350101	9
Caelo	Base cream DAC	16350201	5
Caelo	Base cream DAC	16350301	10
Caelo	Base cream DAC	16350401	1
Caelo	Base cream DAC	1635041	1
Caelo	Base cream DAC	163505	1
Caelo	Base cream DAC	16352701	15
Caelo	Base cream DAC	16352801	2
Caelo	Base cream DAC	16352901	5
Caelo	Base cream DAC	16359502	1
Caelo	Base cream DAC	16360201	1
Caelo	Base cream DAC	1650201	1
Caelo	Base cream DAC	1652101	1
Caelo	Base cream DAC	166349502	1
Caelo	Base cream DAC	16815-T05-030285	1
Caelo	Base cream DAC	16B15-T02-030277	2
Caelo	Base cream DAC	16B15-T04-030281	4
Caelo	Base cream DAC	16B290713	1
Caelo	Base cream DAC	16C14-T02-031202	1
Caelo	Base cream DAC	16c24-T05-031490	1
Caelo	Base cream DAC	16C24-T05-031490	3
Caelo	Base cream DAC	16C24-To5-031490	1
Caelo	Base cream DAC	16D06-T10-031951	1
Caelo	Base cream DAC	16F30-T034792	1
Caelo	Base cream DAC	16F30-T13-034789	1
Caelo	Base cream DAC	16F30-T14-034792	3
Caelo	Base cream DAC	16F-T14-034792	1
Caelo	Base cream DAC	16G20-T04-035305	1
Caelo	Base cream DAC	16G20-T05-035308	1
Caelo	Base cream DAC	17000102	4
Caelo	Base cream DAC	17000905	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	17000909	2
Caelo	Base cream DAC	17000912	1
Caelo	Base cream DAC	17000922	4
Caelo	Base cream DAC	17000923	1
Caelo	Base cream DAC	17000927	1
Caelo	Base cream DAC	170031501	1
Caelo	Base cream DAC	17003201	6
Caelo	Base cream DAC	17003301	2
Caelo	Base cream DAC	17003401	13
Caelo	Base cream DAC	1700340117003401	1
Caelo	Base cream DAC	17003501	9
Caelo	Base cream DAC	170060501	1
Caelo	Base cream DAC	17006501	18
Caelo	Base cream DAC	17006601	11
Caelo	Base cream DAC	17006701	2
Caelo	Base cream DAC	17009801	5
Caelo	Base cream DAC	17009902	11
Caelo	Base cream DAC	170100001	1
Caelo	Base cream DAC	17010001	8
Caelo	Base cream DAC	17010201	14
Caelo	Base cream DAC	170109301	1
Caelo	Base cream DAC	17014401	10
Caelo	Base cream DAC	17014501	14
Caelo	Base cream DAC	17014601	7
Caelo	Base cream DAC	17019301	4
Caelo	Base cream DAC	17019501	6
Caelo	Base cream DAC	170195501	1
Caelo	Base cream DAC	17019601	8
Caelo	Base cream DAC	170216Vi4	1
Caelo	Base cream DAC	17023301	11
Caelo	Base cream DAC	17023401	7
Caelo	Base cream DAC	17023501	14
Caelo	Base cream DAC	17023601	2
Caelo	Base cream DAC	17023701	2
Caelo	Base cream DAC	17028801	10
Caelo	Base cream DAC	17028901	13
Caelo	Base cream DAC	17029001	13
Caelo	Base cream DAC	17029101	8
Caelo	Base cream DAC	17029201	5
Caelo	Base cream DAC	17029301	2
Caelo	Base cream DAC	17031501	14
Caelo	Base cream DAC	17031601	14
Caelo	Base cream DAC	17031701	2
Caelo	Base cream DAC	17031801	2
Caelo	Base cream DAC	17031901	1
Caelo	Base cream DAC	17035701	2
Caelo	Base cream DAC	17035801	6
Caelo	Base cream DAC	17035901	4
Caelo	Base cream DAC	17041702	1
Caelo	Base cream DAC	17061305	1
Caelo	Base cream DAC	170729185	1
Caelo	Base cream DAC	17079201	1
Caelo	Base cream DAC	170824CB/17136501	1
Caelo	Base cream DAC	17089701	3
Caelo	Base cream DAC	17090501	9
Caelo	Base cream DAC	17090502	4
Caelo	Base cream DAC	17090601	1
Caelo	Base cream DAC	17090701	1
Caelo	Base cream DAC	17090901	2
Caelo	Base cream DAC	170909015284	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	170928B/17155101	1
Caelo	Base cream DAC	17094401	5
Caelo	Base cream DAC	17094501	1
Caelo	Base cream DAC	17094601	1
Caelo	Base cream DAC	1709501	1
Caelo	Base cream DAC	17097001	14
Caelo	Base cream DAC	17097101	12
Caelo	Base cream DAC	17097202	3
Caelo	Base cream DAC	17097301	7
Caelo	Base cream DAC	17097401	6
Caelo	Base cream DAC	171000501	3
Caelo	Base cream DAC	17100201	14
Caelo	Base cream DAC	17100301	14
Caelo	Base cream DAC	171003101	1
Caelo	Base cream DAC	171003801	1
Caelo	Base cream DAC	17100401	17
Caelo	Base cream DAC	17100501	20
Caelo	Base cream DAC	17103701	8
Caelo	Base cream DAC	17103701-20170704Ma1	1
Caelo	Base cream DAC	17103801	15
Caelo	Base cream DAC	17103901	4
Caelo	Base cream DAC	17104001	17
Caelo	Base cream DAC	17105701	1
Caelo	Base cream DAC	17108101	5
Caelo	Base cream DAC	17108201	8
Caelo	Base cream DAC	171114BC/17153802	1
Caelo	Base cream DAC	171128BC/17153802	1
Caelo	Base cream DAC	17116701	19
Caelo	Base cream DAC	17116801	2
Caelo	Base cream DAC	17116901	8
Caelo	Base cream DAC	17116902	11
Caelo	Base cream DAC	17117002	3
Caelo	Base cream DAC	17121401	9
Caelo	Base cream DAC	17121501	15
Caelo	Base cream DAC	17123901	9
Caelo	Base cream DAC	17124001	16
Caelo	Base cream DAC	17124101	9
Caelo	Base cream DAC	17124301	2
Caelo	Base cream DAC	17125201	4
Caelo	Base cream DAC	17127001	1
Caelo	Base cream DAC	17129901	17
Caelo	Base cream DAC	17133602	10
Caelo	Base cream DAC	17133603	1
Caelo	Base cream DAC	17136301	18
Caelo	Base cream DAC	17136501	6
Caelo	Base cream DAC	17136601	4
Caelo	Base cream DAC	1713M-01309	1
Caelo	Base cream DAC	1714601	1
Caelo	Base cream DAC	17147301	11
Caelo	Base cream DAC	17147401	9
Caelo	Base cream DAC	17147501	7
Caelo	Base cream DAC	17147601	7
Caelo	Base cream DAC	171476015345	1
Caelo	Base cream DAC	17147701	3
Caelo	Base cream DAC	17153401	4
Caelo	Base cream DAC	17153501	6
Caelo	Base cream DAC	171535501	1
Caelo	Base cream DAC	17153601	5
Caelo	Base cream DAC	17153701	8
Caelo	Base cream DAC	17153802	14

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	17153901	7
Caelo	Base cream DAC	17154001	2
Caelo	Base cream DAC	17154101	3
Caelo	Base cream DAC	17154201	3
Caelo	Base cream DAC	17154301	3
Caelo	Base cream DAC	17154401	13
Caelo	Base cream DAC	17154501	2
Caelo	Base cream DAC	17154601	14
Caelo	Base cream DAC	17154701	10
Caelo	Base cream DAC	17154801	9
Caelo	Base cream DAC	17154901	14
Caelo	Base cream DAC	171550001	1
Caelo	Base cream DAC	17155001	27
Caelo	Base cream DAC	17155101	14
Caelo	Base cream DAC	17155201	16
Caelo	Base cream DAC	171552015374	1
Caelo	Base cream DAC	17155401	8
Caelo	Base cream DAC	17155601	10
Caelo	Base cream DAC	17155701	31
Caelo	Base cream DAC	172230001	1
Caelo	Base cream DAC	17224901	9
Caelo	Base cream DAC	17225002	8
Caelo	Base cream DAC	1722501	1
Caelo	Base cream DAC	17225101	10
Caelo	Base cream DAC	17225201	10
Caelo	Base cream DAC	17225202	1
Caelo	Base cream DAC	17225501	3
Caelo	Base cream DAC	17225601	12
Caelo	Base cream DAC	17225701	1
Caelo	Base cream DAC	17225801	8
Caelo	Base cream DAC	17225901	8
Caelo	Base cream DAC	17229201	10
Caelo	Base cream DAC	17229301	13
Caelo	Base cream DAC	17229401	16
Caelo	Base cream DAC	172294401	1
Caelo	Base cream DAC	17229501	3
Caelo	Base cream DAC	17229601	10
Caelo	Base cream DAC	17229701	3
Caelo	Base cream DAC	17229801	4
Caelo	Base cream DAC	17229901	7
Caelo	Base cream DAC	17230001	21
Caelo	Base cream DAC	17230101	3
Caelo	Base cream DAC	17232401	2
Caelo	Base cream DAC	17232402	2
Caelo	Base cream DAC	17239901	17
Caelo	Base cream DAC	17239915453	1
Caelo	Base cream DAC	17240001	11
Caelo	Base cream DAC	17240101	4
Caelo	Base cream DAC	17240201	3
Caelo	Base cream DAC	17240301	7
Caelo	Base cream DAC	17240301-20171127Ma8	1
Caelo	Base cream DAC	17240401	5
Caelo	Base cream DAC	17240501	1
Caelo	Base cream DAC	17240601	5
Caelo	Base cream DAC	17240701	2
Caelo	Base cream DAC	17240801	9
Caelo	Base cream DAC	17243301	2
Caelo	Base cream DAC	17243401	12
Caelo	Base cream DAC	17243501	13
Caelo	Base cream DAC	17243601	13

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	17251501	7
Caelo	Base cream DAC	17251601	18
Caelo	Base cream DAC	17251701	19
Caelo	Base cream DAC	17263801	9
Caelo	Base cream DAC	17263901	9
Caelo	Base cream DAC	17264001	3
Caelo	Base cream DAC	17264201	1
Caelo	Base cream DAC	17264301	17
Caelo	Base cream DAC	17264401	5
Caelo	Base cream DAC	17264501	9
Caelo	Base cream DAC	17264601	3
Caelo	Base cream DAC	17264701	6
Caelo	Base cream DAC	17265001	3
Caelo	Base cream DAC	17265101	2
Caelo	Base cream DAC	17265701	2
Caelo	Base cream DAC	17265801	6
Caelo	Base cream DAC	17265901	6
Caelo	Base cream DAC	17266001	16
Caelo	Base cream DAC	1726601	1
Caelo	Base cream DAC	17266301	7
Caelo	Base cream DAC	17266401	16
Caelo	Base cream DAC	17266501	17
Caelo	Base cream DAC	17266601	22
Caelo	Base cream DAC	17266601-20180206Ma1	1
Caelo	Base cream DAC	17266701	9
Caelo	Base cream DAC	172668001	1
Caelo	Base cream DAC	17266801	22
Caelo	Base cream DAC	172668015477	1
Caelo	Base cream DAC	17266901	11
Caelo	Base cream DAC	17267001	21
Caelo	Base cream DAC	17267101	10
Caelo	Base cream DAC	17267201	6
Caelo	Base cream DAC	17267301	31
Caelo	Base cream DAC	17267401	10
Caelo	Base cream DAC	17267501	8
Caelo	Base cream DAC	172676001	1
Caelo	Base cream DAC	17267601	15
Caelo	Base cream DAC	17267701	11
Caelo	Base cream DAC	17267702	1
Caelo	Base cream DAC	17267801	14
Caelo	Base cream DAC	17268001	12
Caelo	Base cream DAC	17268301	18
Caelo	Base cream DAC	17268401	11
Caelo	Base cream DAC	17268501	17
Caelo	Base cream DAC	17268601	6
Caelo	Base cream DAC	172686015582	1
Caelo	Base cream DAC	17268701	3
Caelo	Base cream DAC	17268801	10
Caelo	Base cream DAC	17268901	5
Caelo	Base cream DAC	17269001	13
Caelo	Base cream DAC	17269101	3
Caelo	Base cream DAC	17269201	5
Caelo	Base cream DAC	17269301	4
Caelo	Base cream DAC	1734041	1
Caelo	Base cream DAC	173450801	1
Caelo	Base cream DAC	17345801	12
Caelo	Base cream DAC	17349501	4
Caelo	Base cream DAC	17349601	1
Caelo	Base cream DAC	17349801	10
Caelo	Base cream DAC	17349802	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	17349901	18
Caelo	Base cream DAC	17351901	8
Caelo	Base cream DAC	17352001	17
Caelo	Base cream DAC	17352101	15
Caelo	Base cream DAC	173522001	1
Caelo	Base cream DAC	17352201	17
Caelo	Base cream DAC	1753501	1
Caelo	Base cream DAC	1754601	1
Caelo	Base cream DAC	1755001	2
Caelo	Base cream DAC	1755701	1
Caelo	Base cream DAC	1768601	1
Caelo	Base cream DAC	17A03-T07-040044	1
Caelo	Base cream DAC	17C16-T06-042610	2
Caelo	Base cream DAC	17C16-T10-042627	2
Caelo	Base cream DAC	17E11/T08-044210	1
Caelo	Base cream DAC	17E11-T07-044186	3
Caelo	Base cream DAC	17F08-T02-045262	1
Caelo	Base cream DAC	17F08-T03-045267	1
Caelo	Base cream DAC	17H25-T06-047736	3
Caelo	Base cream DAC	17H25-T07-047741	3
Caelo	Base cream DAC	17H25-T09	1
Caelo	Base cream DAC	17H25-T11-047756	2
Caelo	Base cream DAC	17K24-T02-050485	1
Caelo	Base cream DAC	17K24-T05-050498	1
Caelo	Base cream DAC	17K24-T07-050507	1
Caelo	Base cream DAC	18000971	1
Caelo	Base cream DAC	18001301	13
Caelo	Base cream DAC	18001401	15
Caelo	Base cream DAC	18001971	1
Caelo	Base cream DAC	18002	2
Caelo	Base cream DAC	18003102	1
Caelo	Base cream DAC	18003107	1
Caelo	Base cream DAC	18003931	1
Caelo	Base cream DAC	18003933	1
Caelo	Base cream DAC	18003934	1
Caelo	Base cream DAC	18003935	3
Caelo	Base cream DAC	18003937	1
Caelo	Base cream DAC	18003938	1
Caelo	Base cream DAC	18003940	2
Caelo	Base cream DAC	18003945	1
Caelo	Base cream DAC	18005746	1
Caelo	Base cream DAC	18005747	2
Caelo	Base cream DAC	18005748	1
Caelo	Base cream DAC	18006772	1
Caelo	Base cream DAC	18006774	2
Caelo	Base cream DAC	18015101	14
Caelo	Base cream DAC	18015301	11
Caelo	Base cream DAC	18015401	6
Caelo	Base cream DAC	18016701	12
Caelo	Base cream DAC	18033702	5
Caelo	Base cream DAC	18037101	11
Caelo	Base cream DAC	18037201	5
Caelo	Base cream DAC	18037301	5
Caelo	Base cream DAC	18037401	3
Caelo	Base cream DAC	18037402	1
Caelo	Base cream DAC	18037901	6
Caelo	Base cream DAC	180397901	1
Caelo	Base cream DAC	1805101	1
Caelo	Base cream DAC	1805201	1
Caelo	Base cream DAC	1805241	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	18055601	8
Caelo	Base cream DAC	18055602	2
Caelo	Base cream DAC	180615010	1
Caelo	Base cream DAC	18071302	1
Caelo	Base cream DAC	18081601	5
Caelo	Base cream DAC	18081602	10
Caelo	Base cream DAC	18081701	3
Caelo	Base cream DAC	18081702	13
Caelo	Base cream DAC	18085201	8
Caelo	Base cream DAC	18085202	11
Caelo	Base cream DAC	18085202/1300518	1
Caelo	Base cream DAC	1809	1
Caelo	Base cream DAC	18091101	6
Caelo	Base cream DAC	18091102	10
Caelo	Base cream DAC	18091201	1
Caelo	Base cream DAC	18091202	10
Caelo	Base cream DAC	18097701	3
Caelo	Base cream DAC	18097702	20
Caelo	Base cream DAC	180977025637	1
Caelo	Base cream DAC	18104701	1
Caelo	Base cream DAC	18104801	2
Caelo	Base cream DAC	18104901	5
Caelo	Base cream DAC	18105001	10
Caelo	Base cream DAC	18105101	7
Caelo	Base cream DAC	18105201	9
Caelo	Base cream DAC	18105301	8
Caelo	Base cream DAC	18105402	26
Caelo	Base cream DAC	18105501	7
Caelo	Base cream DAC	18105602	5
Caelo	Base cream DAC	18105701	11
Caelo	Base cream DAC	18105801	21
Caelo	Base cream DAC	18126301	28
Caelo	Base cream DAC	18126401	11
Caelo	Base cream DAC	18129301	16
Caelo	Base cream DAC	18136101	1
Caelo	Base cream DAC	18137001	16
Caelo	Base cream DAC	18137101	6
Caelo	Base cream DAC	18137201	17
Caelo	Base cream DAC	18137201-20180830Ma5	1
Caelo	Base cream DAC	18137301	23
Caelo	Base cream DAC	18137401	4
Caelo	Base cream DAC	18137501	1
Caelo	Base cream DAC	18137601	43
Caelo	Base cream DAC	18137702	6
Caelo	Base cream DAC	18137801	29
Caelo	Base cream DAC	18137901	3
Caelo	Base cream DAC	18138001	33
Caelo	Base cream DAC	181380015686	1
Caelo	Base cream DAC	1813801	1
Caelo	Base cream DAC	18138101	27
Caelo	Base cream DAC	18138201	16
Caelo	Base cream DAC	18138301	26
Caelo	Base cream DAC	18138401	27
Caelo	Base cream DAC	181465601	1
Caelo	Base cream DAC	18165101	5
Caelo	Base cream DAC	18165201	7
Caelo	Base cream DAC	18165301	17
Caelo	Base cream DAC	18165401	29
Caelo	Base cream DAC	18165601	35
Caelo	Base cream DAC	181656015738	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	18165701	21
Caelo	Base cream DAC	18165801	32
Caelo	Base cream DAC	18165901	8
Caelo	Base cream DAC	1816602	2
Caelo	Base cream DAC	18166101	28
Caelo	Base cream DAC	18166201	22
Caelo	Base cream DAC	18166301	17
Caelo	Base cream DAC	18166401	26
Caelo	Base cream DAC	18166501	25
Caelo	Base cream DAC	18166602	31
Caelo	Base cream DAC	181666501	1
Caelo	Base cream DAC	181667001	1
Caelo	Base cream DAC	18166701	4
Caelo	Base cream DAC	18166801	3
Caelo	Base cream DAC	18166901	10
Caelo	Base cream DAC	18167001	22
Caelo	Base cream DAC	18167101	17
Caelo	Base cream DAC	18192501	22
Caelo	Base cream DAC	18192601	24
Caelo	Base cream DAC	18192701	31
Caelo	Base cream DAC	18192801	5
Caelo	Base cream DAC	18192901	8
Caelo	Base cream DAC	18193001	2
Caelo	Base cream DAC	18193101	34
Caelo	Base cream DAC	18193201	19
Caelo	Base cream DAC	18193301	30
Caelo	Base cream DAC	181933301	1
Caelo	Base cream DAC	18193401	2
Caelo	Base cream DAC	18200801	1
Caelo	Base cream DAC	1820401	1
Caelo	Base cream DAC	18211701	25
Caelo	Base cream DAC	18220401	31
Caelo	Base cream DAC	182322901	1
Caelo	Base cream DAC	18232301	1
Caelo	Base cream DAC	18232401	21
Caelo	Base cream DAC	18232501	29
Caelo	Base cream DAC	182325011	1
Caelo	Base cream DAC	18232601	20
Caelo	Base cream DAC	18232701	20
Caelo	Base cream DAC	18232801	13
Caelo	Base cream DAC	18232901	20
Caelo	Base cream DAC	1823501	3
Caelo	Base cream DAC	1823901	1
Caelo	Base cream DAC	18269001	25
Caelo	Base cream DAC	1826901	1
Caelo	Base cream DAC	18269101	19
Caelo	Base cream DAC	18269201	33
Caelo	Base cream DAC	18269301	31
Caelo	Base cream DAC	18269401	19
Caelo	Base cream DAC	18269501	26
Caelo	Base cream DAC	18269601	31
Caelo	Base cream DAC	18269701	34
Caelo	Base cream DAC	18269801	34
Caelo	Base cream DAC	18269901	24
Caelo	Base cream DAC	18270001	8
Caelo	Base cream DAC	1827001	1
Caelo	Base cream DAC	18270101	11
Caelo	Base cream DAC	18270401	6
Caelo	Base cream DAC	18270501	17
Caelo	Base cream DAC	1827050101	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	18270601	4
Caelo	Base cream DAC	18270701	14
Caelo	Base cream DAC	18270801	3
Caelo	Base cream DAC	18270901	20
Caelo	Base cream DAC	18271001	6
Caelo	Base cream DAC	18271101	6
Caelo	Base cream DAC	18271201	10
Caelo	Base cream DAC	18271301	6
Caelo	Base cream DAC	18272201	26
Caelo	Base cream DAC	1827221	1
Caelo	Base cream DAC	18272301	32
Caelo	Base cream DAC	18272301x6	1
Caelo	Base cream DAC	1865601	2
Caelo	Base cream DAC	18C19-T18-05352	1
Caelo	Base cream DAC	18C19-T18-053952	3
Caelo	Base cream DAC	18C19-T20-053962	1
Caelo	Base cream DAC	18C19-T22-053970	2
Caelo	Base cream DAC	18e23-t15-056314	1
Caelo	Base cream DAC	18E23-T15-056314	2
Caelo	Base cream DAC	18E23-T16-056321	2
Caelo	Base cream DAC	18G13-T09-058073	3
Caelo	Base cream DAC	18G13-T10-058076	7
Caelo	Base cream DAC	18G13-T11-058079	6
Caelo	Base cream DAC	18G13T13058087	1
Caelo	Base cream DAC	18G13-T14-058090	2
Caelo	Base cream DAC	18L20-T11-062930	1
Caelo	Base cream DAC	18L20-T12-062935	4
Caelo	Base cream DAC	18L20-T17-062947	1
Caelo	Base cream DAC	19000751003	6
Caelo	Base cream DAC	19000938	1
Caelo	Base cream DAC	19000942	2
Caelo	Base cream DAC	19000948	1
Caelo	Base cream DAC	19002685	1
Caelo	Base cream DAC	19002692	1
Caelo	Base cream DAC	19003101	9
Caelo	Base cream DAC	19003201	5
Caelo	Base cream DAC	19003278	1
Caelo	Base cream DAC	19003401	14
Caelo	Base cream DAC	19003501	17
Caelo	Base cream DAC	19003502	23
Caelo	Base cream DAC	19003601	24
Caelo	Base cream DAC	19003701	31
Caelo	Base cream DAC	19003801	22
Caelo	Base cream DAC	19003901	14
Caelo	Base cream DAC	19005	2
Caelo	Base cream DAC	19011902	1
Caelo	Base cream DAC	19019901	6
Caelo	Base cream DAC	19020001	9
Caelo	Base cream DAC	19020201	21
Caelo	Base cream DAC	19021304	1
Caelo	Base cream DAC	19051801	8
Caelo	Base cream DAC	19051802	2
Caelo	Base cream DAC	19051901	6
Caelo	Base cream DAC	19052001	3
Caelo	Base cream DAC	19052101	5
Caelo	Base cream DAC	1905210401	1
Caelo	Base cream DAC	19052301	13
Caelo	Base cream DAC	19052401	12
Caelo	Base cream DAC	19052501	13
Caelo	Base cream DAC	19052601	9

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	19052701	13
Caelo	Base cream DAC	19052801	11
Caelo	Base cream DAC	19052901	11
Caelo	Base cream DAC	19053001	10
Caelo	Base cream DAC	19053101	11
Caelo	Base cream DAC	19053201	14
Caelo	Base cream DAC	19053301	20
Caelo	Base cream DAC	19075901	1
Caelo	Base cream DAC	19076001	3
Caelo	Base cream DAC	190814A	1
Caelo	Base cream DAC	19081503	1
Caelo	Base cream DAC	19083101	1
Caelo	Base cream DAC	19101302	1
Caelo	Base cream DAC	191117501	1
Caelo	Base cream DAC	19116701	1
Caelo	Base cream DAC	19116801	35
Caelo	Base cream DAC	19116901	4
Caelo	Base cream DAC	19117001	6
Caelo	Base cream DAC	19117101	9
Caelo	Base cream DAC	191171101	1
Caelo	Base cream DAC	19117201	2
Caelo	Base cream DAC	191172301	1
Caelo	Base cream DAC	19117301	26
Caelo	Base cream DAC	19117401	20
Caelo	Base cream DAC	19117410	1
Caelo	Base cream DAC	19117501	21
Caelo	Base cream DAC	19117601	12
Caelo	Base cream DAC	19117701	19
Caelo	Base cream DAC	19117801	18
Caelo	Base cream DAC	19118001	3
Caelo	Base cream DAC	1911801	1
Caelo	Base cream DAC	19118101	31
Caelo	Base cream DAC	19118201	3
Caelo	Base cream DAC	19118301	8
Caelo	Base cream DAC	19118401	34
Caelo	Base cream DAC	19119401	1
Caelo	Base cream DAC	1912001	1
Caelo	Base cream DAC	19147801	26
Caelo	Base cream DAC	19147901	29
Caelo	Base cream DAC	19148001	32
Caelo	Base cream DAC	19153601	16
Caelo	Base cream DAC	19153801	5
Caelo	Base cream DAC	1916801	1
Caelo	Base cream DAC	19170201	5
Caelo	Base cream DAC	19170301	18
Caelo	Base cream DAC	1917039	1
Caelo	Base cream DAC	19170401	7
Caelo	Base cream DAC	19170501	22
Caelo	Base cream DAC	19170601	33
Caelo	Base cream DAC	19170701	29
Caelo	Base cream DAC	191707017	1
Caelo	Base cream DAC	19170801	2
Caelo	Base cream DAC	19170901	17
Caelo	Base cream DAC	19171001	9
Caelo	Base cream DAC	19171801	12
Caelo	Base cream DAC	19172001	8
Caelo	Base cream DAC	19172101	2
Caelo	Base cream DAC	19172201	9
Caelo	Base cream DAC	19172301	20
Caelo	Base cream DAC	19172401	24

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	19172501	29
Caelo	Base cream DAC	1917250119240701	1
Caelo	Base cream DAC	19172601	26
Caelo	Base cream DAC	19172701	17
Caelo	Base cream DAC	19172801	3
Caelo	Base cream DAC	19172901	7
Caelo	Base cream DAC	19173001	11
Caelo	Base cream DAC	19173101	5
Caelo	Base cream DAC	19173201	5
Caelo	Base cream DAC	19173301	5
Caelo	Base cream DAC	19173401	3
Caelo	Base cream DAC	19173701	21
Caelo	Base cream DAC	19173801	9
Caelo	Base cream DAC	19173901	24
Caelo	Base cream DAC	19173903	1
Caelo	Base cream DAC	19174001	16
Caelo	Base cream DAC	19174101	6
Caelo	Base cream DAC	19174201	20
Caelo	Base cream DAC	19174301	21
Caelo	Base cream DAC	19174401	29
Caelo	Base cream DAC	19174404	1
Caelo	Base cream DAC	19174501	20
Caelo	Base cream DAC	1917701	1
Caelo	Base cream DAC	19239001	16
Caelo	Base cream DAC	19239101	4
Caelo	Base cream DAC	19239201	20
Caelo	Base cream DAC	19239301	15
Caelo	Base cream DAC	19239401	6
Caelo	Base cream DAC	19239501	1
Caelo	Base cream DAC	19239601	1
Caelo	Base cream DAC	19240201	17
Caelo	Base cream DAC	19240301	21
Caelo	Base cream DAC	19240401	31
Caelo	Base cream DAC	19240501	18
Caelo	Base cream DAC	19240601	16
Caelo	Base cream DAC	1924061	1
Caelo	Base cream DAC	19240701	35
Caelo	Base cream DAC	19240801	4
Caelo	Base cream DAC	19240901	3
Caelo	Base cream DAC	19241001	1
Caelo	Base cream DAC	19252901	1
Caelo	Base cream DAC	19267802	1
Caelo	Base cream DAC	19269501	4
Caelo	Base cream DAC	19269601	4
Caelo	Base cream DAC	19269701	5
Caelo	Base cream DAC	19269801	6
Caelo	Base cream DAC	19269901	10
Caelo	Base cream DAC	19270001	4
Caelo	Base cream DAC	19270101	18
Caelo	Base cream DAC	19270201	17
Caelo	Base cream DAC	19270301	22
Caelo	Base cream DAC	19270401	27
Caelo	Base cream DAC	19270501	28
Caelo	Base cream DAC	19270601	6
Caelo	Base cream DAC	19270701	17
Caelo	Base cream DAC	1927301	1
Caelo	Base cream DAC	19301202	16
Caelo	Base cream DAC	19301701	23
Caelo	Base cream DAC	19301801	13
Caelo	Base cream DAC	1930180120001851001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	19301901	7
Caelo	Base cream DAC	19420701	1
Caelo	Base cream DAC	19472501	1
Caelo	Base cream DAC	1948001	1
Caelo	Base cream DAC	1971801	1
Caelo	Base cream DAC	19C19-T18-065187	2
Caelo	Base cream DAC	19D01-T14-065578	1
Caelo	Base cream DAC	19G08-T05-069152	1
Caelo	Base cream DAC	19H04T08	1
Caelo	Base cream DAC	200000036001	1
Caelo	Base cream DAC	200000055001	1
Caelo	Base cream DAC	20000021001	1
Caelo	Base cream DAC	20000036001	9
Caelo	Base cream DAC	20000042001	9
Caelo	Base cream DAC	20000047001	3
Caelo	Base cream DAC	20000048001	1
Caelo	Base cream DAC	200000486001	1
Caelo	Base cream DAC	20000049001	2
Caelo	Base cream DAC	20000051001	17
Caelo	Base cream DAC	20000052001	13
Caelo	Base cream DAC	20000053001	8
Caelo	Base cream DAC	20000054001	14
Caelo	Base cream DAC	20000055001	19
Caelo	Base cream DAC	20000056001	5
Caelo	Base cream DAC	20000057001	2
Caelo	Base cream DAC	20000058001	24
Caelo	Base cream DAC	20000099001	4
Caelo	Base cream DAC	200001007001	1
Caelo	Base cream DAC	200001009001	1
Caelo	Base cream DAC	200001105001	1
Caelo	Base cream DAC	200001108001	2
Caelo	Base cream DAC	200001679001	1
Caelo	Base cream DAC	200001686001	1
Caelo	Base cream DAC	200001852001	1
Caelo	Base cream DAC	200001862001	1
Caelo	Base cream DAC	200002580001	1
Caelo	Base cream DAC	200002873001	1
Caelo	Base cream DAC	20000315001	1
Caelo	Base cream DAC	200003471001	1
Caelo	Base cream DAC	2000036001	1
Caelo	Base cream DAC	200003690001	1
Caelo	Base cream DAC	2000042001	1
Caelo	Base cream DAC	20000473	1
Caelo	Base cream DAC	2000053001	1
Caelo	Base cream DAC	2000054001	1
Caelo	Base cream DAC	20000562001	1
Caelo	Base cream DAC	20000579001	2
Caelo	Base cream DAC	20000580001	8
Caelo	Base cream DAC	2000058001	1
Caelo	Base cream DAC	20000581001	13
Caelo	Base cream DAC	2000058101	2
Caelo	Base cream DAC	20000582001	16
Caelo	Base cream DAC	20000583001	7
Caelo	Base cream DAC	20000584001	6
Caelo	Base cream DAC	20000585001	5
Caelo	Base cream DAC	20000586001	4
Caelo	Base cream DAC	200006860001	1
Caelo	Base cream DAC	20000686001	15
Caelo	Base cream DAC	20000687001	12
Caelo	Base cream DAC	20000688001	13

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	20000689001	17
Caelo	Base cream DAC	20000690001	20
Caelo	Base cream DAC	20000691001	3
Caelo	Base cream DAC	20000692001	2
Caelo	Base cream DAC	20000693001	6
Caelo	Base cream DAC	20000694001	2
Caelo	Base cream DAC	20000929001	1
Caelo	Base cream DAC	200010007001	1
Caelo	Base cream DAC	200010058001	1
Caelo	Base cream DAC	20001006001	19
Caelo	Base cream DAC	20001007001	12
Caelo	Base cream DAC	20001008001	13
Caelo	Base cream DAC	20001009001	20
Caelo	Base cream DAC	20001011001	1
Caelo	Base cream DAC	20001013001	3
Caelo	Base cream DAC	20001101001	7
Caelo	Base cream DAC	20001102001	3
Caelo	Base cream DAC	20001103001	12
Caelo	Base cream DAC	20001104001	15
Caelo	Base cream DAC	20001105001	14
Caelo	Base cream DAC	20001106001	20
Caelo	Base cream DAC	20001107001	7
Caelo	Base cream DAC	200011105001	2
Caelo	Base cream DAC	2000113001	1
Caelo	Base cream DAC	200016585001	1
Caelo	Base cream DAC	200016678001	1
Caelo	Base cream DAC	20001677001	20
Caelo	Base cream DAC	20001678001	22
Caelo	Base cream DAC	20001679001	16
Caelo	Base cream DAC	2000167901	1
Caelo	Base cream DAC	20001680001	14
Caelo	Base cream DAC	20001682001	3
Caelo	Base cream DAC	20001683001	6
Caelo	Base cream DAC	20001684001	1
Caelo	Base cream DAC	20001685001	14
Caelo	Base cream DAC	2000168600	1
Caelo	Base cream DAC	20001686001	13
Caelo	Base cream DAC	20001687001	13
Caelo	Base cream DAC	20001688001	9
Caelo	Base cream DAC	20001689001	7
Caelo	Base cream DAC	20001689002	10
Caelo	Base cream DAC	20001850001	8
Caelo	Base cream DAC	2000185001	1
Caelo	Base cream DAC	20001851001	9
Caelo	Base cream DAC	20001852001	9
Caelo	Base cream DAC	20001853001	14
Caelo	Base cream DAC	20001854001	9
Caelo	Base cream DAC	20001855001	10
Caelo	Base cream DAC	20001856001	1
Caelo	Base cream DAC	20001857001	3
Caelo	Base cream DAC	20001858001	4
Caelo	Base cream DAC	20001860001	7
Caelo	Base cream DAC	20001861001	7
Caelo	Base cream DAC	20001862001	12
Caelo	Base cream DAC	20001863001	7
Caelo	Base cream DAC	20001864001	5
Caelo	Base cream DAC	20001865001	4
Caelo	Base cream DAC	20001867001	1
Caelo	Base cream DAC	20001868001	4
Caelo	Base cream DAC	2000197001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	20002062001	6
Caelo	Base cream DAC	20002063001	5
Caelo	Base cream DAC	20002065001	8
Caelo	Base cream DAC	20002066001	2
Caelo	Base cream DAC	20002067001	7
Caelo	Base cream DAC	20002068001	8
Caelo	Base cream DAC	20002069001	1
Caelo	Base cream DAC	20002328001	3
Caelo	Base cream DAC	20002866001	6
Caelo	Base cream DAC	20002867001	1
Caelo	Base cream DAC	20002868001	1
Caelo	Base cream DAC	20002869001	3
Caelo	Base cream DAC	20002871001	3
Caelo	Base cream DAC	20002872001	6
Caelo	Base cream DAC	20002873001	14
Caelo	Base cream DAC	20002874001	13
Caelo	Base cream DAC	20002875001	1
Caelo	Base cream DAC	20002876001	7
Caelo	Base cream DAC	20002877001	9
Caelo	Base cream DAC	20003181001	1
Caelo	Base cream DAC	20003182001	12
Caelo	Base cream DAC	200031820011	1
Caelo	Base cream DAC	20003184001	2
Caelo	Base cream DAC	20003186001	7
Caelo	Base cream DAC	20003187001	10
Caelo	Base cream DAC	20003188001	15
Caelo	Base cream DAC	20003189001	14
Caelo	Base cream DAC	20003190001	14
Caelo	Base cream DAC	20003191001	12
Caelo	Base cream DAC	20003192001	4
Caelo	Base cream DAC	20003193001	1
Caelo	Base cream DAC	20003194001	8
Caelo	Base cream DAC	20003195001	15
Caelo	Base cream DAC	20003196001	12
Caelo	Base cream DAC	20003197001	5
Caelo	Base cream DAC	20003287001	1
Caelo	Base cream DAC	20003288001	9
Caelo	Base cream DAC	20003288003	6
Caelo	Base cream DAC	2000328801	2
Caelo	Base cream DAC	2000328803	1
Caelo	Base cream DAC	2000333288003	1
Caelo	Base cream DAC	20003469001	12
Caelo	Base cream DAC	2000347	1
Caelo	Base cream DAC	20003470001	11
Caelo	Base cream DAC	20003471001	7
Caelo	Base cream DAC	20003472001	15
Caelo	Base cream DAC	20003473001	9
Caelo	Base cream DAC	20003474001	18
Caelo	Base cream DAC	20003476001	1
Caelo	Base cream DAC	20003477002	3
Caelo	Base cream DAC	20003544	1
Caelo	Base cream DAC	20003829002	4
Caelo	Base cream DAC	20003830001	21
Caelo	Base cream DAC	2000383001	2
Caelo	Base cream DAC	20003831001	8
Caelo	Base cream DAC	20003832001	2
Caelo	Base cream DAC	20003833001	2
Caelo	Base cream DAC	200038340001	1
Caelo	Base cream DAC	20003834001	2
Caelo	Base cream DAC	20003835001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	20003836001	2
Caelo	Base cream DAC	2000431001	1
Caelo	Base cream DAC	20004314001	13
Caelo	Base cream DAC	20004315001	16
Caelo	Base cream DAC	20004316001	18
Caelo	Base cream DAC	20004316001x2	1
Caelo	Base cream DAC	20004317001	10
Caelo	Base cream DAC	20004318001	12
Caelo	Base cream DAC	20004319001	7
Caelo	Base cream DAC	2000432001	1
Caelo	Base cream DAC	20004321001	3
Caelo	Base cream DAC	20004322001	1
Caelo	Base cream DAC	20004323001	9
Caelo	Base cream DAC	20004324001	3
Caelo	Base cream DAC	20004328001	3
Caelo	Base cream DAC	20004329001	5
Caelo	Base cream DAC	20004330001	4
Caelo	Base cream DAC	2000580001	1
Caelo	Base cream DAC	2000582001	1
Caelo	Base cream DAC	200069001	1
Caelo	Base cream DAC	2000692001	1
Caelo	Base cream DAC	2001013001	2
Caelo	Base cream DAC	2001105001	1
Caelo	Base cream DAC	2001106001	1
Caelo	Base cream DAC	20011701	1
Caelo	Base cream DAC	2001677001	2
Caelo	Base cream DAC	2001678001	1
Caelo	Base cream DAC	20018550001	1
Caelo	Base cream DAC	2001861001	1
Caelo	Base cream DAC	2001863001	1
Caelo	Base cream DAC	20021503	1
Caelo	Base cream DAC	2002866001	1
Caelo	Base cream DAC	2003186001	1
Caelo	Base cream DAC	2003470001	2
Caelo	Base cream DAC	2003475001	1
Caelo	Base cream DAC	2003830001	1
Caelo	Base cream DAC	201103001	1
Caelo	Base cream DAC	2020216	2
Caelo	Base cream DAC	2025-T05	1
Caelo	Base cream DAC	2062001intern	1
Caelo	Base cream DAC	20B10_T12-075397	1
Caelo	Base cream DAC	20J14-T06-083251	1
Caelo	Base cream DAC	210001253001	1
Caelo	Base cream DAC	210002526001	1
Caelo	Base cream DAC	21000601002	2
Caelo	Base cream DAC	21000617001	1
Caelo	Base cream DAC	21000812002	1
Caelo	Base cream DAC	21000813001	22
Caelo	Base cream DAC	21000814001	6
Caelo	Base cream DAC	21000815001	5
Caelo	Base cream DAC	2100081600	1
Caelo	Base cream DAC	21000816001	11
Caelo	Base cream DAC	21000817001	2
Caelo	Base cream DAC	21000818001	7
Caelo	Base cream DAC	21000820001	4
Caelo	Base cream DAC	21000821001	2
Caelo	Base cream DAC	21000822001	1
Caelo	Base cream DAC	21000824	1
Caelo	Base cream DAC	21000826	1
Caelo	Base cream DAC	21001243001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	21001243002	3
Caelo	Base cream DAC	21001245001	1
Caelo	Base cream DAC	21001246001	2
Caelo	Base cream DAC	21001247001	5
Caelo	Base cream DAC	21001249001	6
Caelo	Base cream DAC	21001250001	16
Caelo	Base cream DAC	21001251001	9
Caelo	Base cream DAC	21001252001	9
Caelo	Base cream DAC	21001253001	5
Caelo	Base cream DAC	21001254001	1
Caelo	Base cream DAC	21001256001	1
Caelo	Base cream DAC	21001257001	2
Caelo	Base cream DAC	21001258001	9
Caelo	Base cream DAC	21001259001	7
Caelo	Base cream DAC	21001260001	16
Caelo	Base cream DAC	21001765001	4
Caelo	Base cream DAC	21001765002	2
Caelo	Base cream DAC	21001766001	2
Caelo	Base cream DAC	21001767001	6
Caelo	Base cream DAC	21001769001	2
Caelo	Base cream DAC	21001771001	2
Caelo	Base cream DAC	21001772001	6
Caelo	Base cream DAC	21001773001	4
Caelo	Base cream DAC	21001774001	4
Caelo	Base cream DAC	21001775001	8
Caelo	Base cream DAC	21001776001	3
Caelo	Base cream DAC	21001777001	1
Caelo	Base cream DAC	21001892	1
Caelo	Base cream DAC	210023291001	1
Caelo	Base cream DAC	21002366001	1
Caelo	Base cream DAC	21002384001	1
Caelo	Base cream DAC	21002386	1
Caelo	Base cream DAC	21002386001	1
Caelo	Base cream DAC	21002387001	4
Caelo	Base cream DAC	21002388001	6
Caelo	Base cream DAC	21002389001	6
Caelo	Base cream DAC	21002390001	9
Caelo	Base cream DAC	21002391001	14
Caelo	Base cream DAC	21002522001	1
Caelo	Base cream DAC	21002523001	6
Caelo	Base cream DAC	21002525001	3
Caelo	Base cream DAC	21002604001	3
Caelo	Base cream DAC	21002605001	5
Caelo	Base cream DAC	21002606001	2
Caelo	Base cream DAC	21002607001	8
Caelo	Base cream DAC	21002608001	5
Caelo	Base cream DAC	21002609001	4
Caelo	Base cream DAC	21002610001	1
Caelo	Base cream DAC	21002708001	1
Caelo	Base cream DAC	21002709001	2
Caelo	Base cream DAC	21002710001	2
Caelo	Base cream DAC	21002711001	5
Caelo	Base cream DAC	2100271101	1
Caelo	Base cream DAC	21002712001	5
Caelo	Base cream DAC	21002713001	2
Caelo	Base cream DAC	21002714001	1
Caelo	Base cream DAC	21002715001	2
Caelo	Base cream DAC	21002718001	2
Caelo	Base cream DAC	21002719001	2
Caelo	Base cream DAC	21003063001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	21003064001	2
Caelo	Base cream DAC	21003065001	1
Caelo	Base cream DAC	21003066001	4
Caelo	Base cream DAC	21003070001	4
Caelo	Base cream DAC	21003071001	2
Caelo	Base cream DAC	21003072001	3
Caelo	Base cream DAC	210030800001	1
Caelo	Base cream DAC	2100388001	1
Caelo	Base cream DAC	21004025002	1
Caelo	Base cream DAC	21004026001	2
Caelo	Base cream DAC	21004028001	1
Caelo	Base cream DAC	21004032001	1
Caelo	Base cream DAC	21004033001	1
Caelo	Base cream DAC	21004199	1
Caelo	Base cream DAC	21005253001	1
Caelo	Base cream DAC	2102719001	1
Caelo	Base cream DAC	21081407	1
Caelo	Base cream DAC	210826	1
Caelo	Base cream DAC	210923(21001247001)	1
Caelo	Base cream DAC	211124(21001775001)	1
Caelo	Base cream DAC	2121403	1
Caelo	Base cream DAC	213M-01309	1
Caelo	Base cream DAC	21C24-T13-087234	1
Caelo	Base cream DAC	2200002777001	1
Caelo	Base cream DAC	22000273001	1
Caelo	Base cream DAC	22000274001	1
Caelo	Base cream DAC	22000276001	1
Caelo	Base cream DAC	22000277001	2
Caelo	Base cream DAC	22000619001	1
Caelo	Base cream DAC	220117	1
Caelo	Base cream DAC	220209(21002607001)	1
Caelo	Base cream DAC	22031303	1
Caelo	Base cream DAC	220412(21002712001)	1
Caelo	Base cream DAC	22041306	1
Caelo	Base cream DAC	220608(21004026001)	1
Caelo	Base cream DAC	220728(22000279001)	1
Caelo	Base cream DAC	22091802	1
Caelo	Base cream DAC	2213V01309	1
Caelo	Base cream DAC	223711-779	1
Caelo	Base cream DAC	23041403	1
Caelo	Base cream DAC	23061506	1
Caelo	Base cream DAC	23091703	1
Caelo	Base cream DAC	23800219	1
Caelo	Base cream DAC	24091301	1
Caelo	Base cream DAC	25011401	1
Caelo	Base cream DAC	25021402	1
Caelo	Base cream DAC	25021701	1
Caelo	Base cream DAC	2514U1309	1
Caelo	Base cream DAC	26011602	1
Caelo	Base cream DAC	26061204	1
Caelo	Base cream DAC	26091405	1
Caelo	Base cream DAC	268820	2
Caelo	Base cream DAC	27111703	1
Caelo	Base cream DAC	272084	2
Caelo	Base cream DAC	27290917	1
Caelo	Base cream DAC	27300917	1
Caelo	Base cream DAC	27310917	3
Caelo	Base cream DAC	273416352701	1
Caelo	Base cream DAC	273417229201	1
Caelo	Base cream DAC	273717268701	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	2740	1
Caelo	Base cream DAC	2753	1
Caelo	Base cream DAC	275438	2
Caelo	Base cream DAC	275591	1
Caelo	Base cream DAC	277111	1
Caelo	Base cream DAC	2779	1
Caelo	Base cream DAC	2782	1
Caelo	Base cream DAC	2786	1
Caelo	Base cream DAC	279960	1
Caelo	Base cream DAC	279963	1
Caelo	Base cream DAC	28031401	1
Caelo	Base cream DAC	28031404	1
Caelo	Base cream DAC	280913B	1
Caelo	Base cream DAC	28111708	1
Caelo	Base cream DAC	28111811	1
Caelo	Base cream DAC	2817	1
Caelo	Base cream DAC	2831	1
Caelo	Base cream DAC	287876	1
Caelo	Base cream DAC	2892	1
Caelo	Base cream DAC	2894	1
Caelo	Base cream DAC	2901311309	1
Caelo	Base cream DAC	292122	1
Caelo	Base cream DAC	29220416	6
Caelo	Base cream DAC	294834	1
Caelo	Base cream DAC	29550618	1
Caelo	Base cream DAC	295898	1
Caelo	Base cream DAC	296229	1
Caelo	Base cream DAC	298259	2
Caelo	Base cream DAC	298260	1
Caelo	Base cream DAC	29860117	2
Caelo	Base cream DAC	29870117	1
Caelo	Base cream DAC	29880117	1
Caelo	Base cream DAC	2991016	1
Caelo	Base cream DAC	299323	1
Caelo	Base cream DAC	2x16261801	1
Caelo	Base cream DAC	2x18192701	1
Caelo	Base cream DAC	2x18269501	1
Caelo	Base cream DAC	3001016	2
Caelo	Base cream DAC	30061713	1
Caelo	Base cream DAC	3011016	1
Caelo	Base cream DAC	30111201	1
Caelo	Base cream DAC	301157	1
Caelo	Base cream DAC	3013M-01309	1
Caelo	Base cream DAC	301743	2
Caelo	Base cream DAC	301744	1
Caelo	Base cream DAC	301759	2
Caelo	Base cream DAC	303058	1
Caelo	Base cream DAC	303059	1
Caelo	Base cream DAC	303061	1
Caelo	Base cream DAC	303419	1
Caelo	Base cream DAC	303421	1
Caelo	Base cream DAC	303428	1
Caelo	Base cream DAC	304352	1
Caelo	Base cream DAC	304357	1
Caelo	Base cream DAC	305711	1
Caelo	Base cream DAC	305714	1
Caelo	Base cream DAC	305732	1
Caelo	Base cream DAC	305735	1
Caelo	Base cream DAC	3061701	1
Caelo	Base cream DAC	306615	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	306618	2
Caelo	Base cream DAC	306619	1
Caelo	Base cream DAC	306620	1
Caelo	Base cream DAC	306624	2
Caelo	Base cream DAC	307833	1
Caelo	Base cream DAC	307964	2
Caelo	Base cream DAC	3081702	1
Caelo	Base cream DAC	308795	3
Caelo	Base cream DAC	308796	1
Caelo	Base cream DAC	31031405	1
Caelo	Base cream DAC	31031506	1
Caelo	Base cream DAC	310754	1
Caelo	Base cream DAC	310756	1
Caelo	Base cream DAC	31081205	1
Caelo	Base cream DAC	3121302	1
Caelo	Base cream DAC	3254	1
Caelo	Base cream DAC	3262	1
Caelo	Base cream DAC	3268	1
Caelo	Base cream DAC	3271218	1
Caelo	Base cream DAC	3283	1
Caelo	Base cream DAC	3315	1
Caelo	Base cream DAC	3329	1
Caelo	Base cream DAC	3346	1
Caelo	Base cream DAC	3347	1
Caelo	Base cream DAC	3413E-01309	1
Caelo	Base cream DAC	3425	1
Caelo	Base cream DAC	3513I-01309	1
Caelo	Base cream DAC	35391020	1
Caelo	Base cream DAC	36530319	1
Caelo	Base cream DAC	3811016	1
Caelo	Base cream DAC	39210516	5
Caelo	Base cream DAC	39590217	2
Caelo	Base cream DAC	39600117	1
Caelo	Base cream DAC	39630217	2
Caelo	Base cream DAC	4113E-01309	1
Caelo	Base cream DAC	412/2	1
Caelo	Base cream DAC	412/3	1
Caelo	Base cream DAC	4121	1
Caelo	Base cream DAC	4240919	1
Caelo	Base cream DAC	44950616	2
Caelo	Base cream DAC	4512Q-01309	1
Caelo	Base cream DAC	45340616	1
Caelo	Base cream DAC	45348616	1
Caelo	Base cream DAC	45380616	5
Caelo	Base cream DAC	45960718	1
Caelo	Base cream DAC	4717A-01309	1
Caelo	Base cream DAC	47890419	3
Caelo	Base cream DAC	4913E01309	1
Caelo	Base cream DAC	4918A-01309	1
Caelo	Base cream DAC	5012Q-01309	1
Caelo	Base cream DAC	50205/1Gra	1
Caelo	Base cream DAC	5091308	1
Caelo	Base cream DAC	513Q-01309	1
Caelo	Base cream DAC	515/2	1
Caelo	Base cream DAC	5289100	1
Caelo	Base cream DAC	5321200	2
Caelo	Base cream DAC	5408000	1
Caelo	Base cream DAC	5489900	5
Caelo	Base cream DAC	5490000	3
Caelo	Base cream DAC	5490100	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	5537000	2
Caelo	Base cream DAC	5537400	1
Caelo	Base cream DAC	5537500	2
Caelo	Base cream DAC	55740320	1
Caelo	Base cream DAC	55850317	1
Caelo	Base cream DAC	5788000	1
Caelo	Base cream DAC	5788100	1
Caelo	Base cream DAC	5909200	2
Caelo	Base cream DAC	5909300	1
Caelo	Base cream DAC	5909500	1
Caelo	Base cream DAC	5909600	2
Caelo	Base cream DAC	5x17031501	1
Caelo	Base cream DAC	6002237002	1
Caelo	Base cream DAC	6002237003	2
Caelo	Base cream DAC	6002237005	1
Caelo	Base cream DAC	6003682004	1
Caelo	Base cream DAC	6003682012	1
Caelo	Base cream DAC	6003682014	1
Caelo	Base cream DAC	6003682015	1
Caelo	Base cream DAC	6004859004	1
Caelo	Base cream DAC	6004859005	4
Caelo	Base cream DAC	6004859006	1
Caelo	Base cream DAC	6004860001	1
Caelo	Base cream DAC	60610519	1
Caelo	Base cream DAC	618E-01309	1
Caelo	Base cream DAC	625570918	1
Caelo	Base cream DAC	640/3	1
Caelo	Base cream DAC	6500119	1
Caelo	Base cream DAC	650118	1
Caelo	Base cream DAC	66666666666	1
Caelo	Base cream DAC	66666666666666	1
Caelo	Base cream DAC	6671116	1
Caelo	Base cream DAC	69500118	1
Caelo	Base cream DAC	69510118	1
Caelo	Base cream DAC	69520118	1
Caelo	Base cream DAC	7071803	1
Caelo	Base cream DAC	7082009	1
Caelo	Base cream DAC	713I-01309	1
Caelo	Base cream DAC	72/AKD1	1
Caelo	Base cream DAC	72240417	1
Caelo	Base cream DAC	72260417	2
Caelo	Base cream DAC	72270417	1
Caelo	Base cream DAC	731/1	3
Caelo	Base cream DAC	731/4	6
Caelo	Base cream DAC	74/AKD2	1
Caelo	Base cream DAC	75/AKD7	1
Caelo	Base cream DAC	7560418	2
Caelo	Base cream DAC	7580418	1
Caelo	Base cream DAC	76571018	2
Caelo	Base cream DAC	76591018	1
Caelo	Base cream DAC	79/AKD16	1
Caelo	Base cream DAC	8002875008	2
Caelo	Base cream DAC	8003325003	5
Caelo	Base cream DAC	8003325004	1
Caelo	Base cream DAC	8003325005	2
Caelo	Base cream DAC	8003325011	1
Caelo	Base cream DAC	8004134004	1
Caelo	Base cream DAC	8004134005	2
Caelo	Base cream DAC	8004134006	1
Caelo	Base cream DAC	8004134008	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream DAC	8004996001	1
Caelo	Base cream DAC	8005713009	1
Caelo	Base cream DAC	8011302	1
Caelo	Base cream DAC	80300218	1
Caelo	Base cream DAC	80316-250-376	1
Caelo	Base cream DAC	8061802	1
Caelo	Base cream DAC	8091808	1
Caelo	Base cream DAC	8111302	1
Caelo	Base cream DAC	8620717	1
Caelo	Base cream DAC	86450517	1
Caelo	Base cream DAC	86460517	2
Caelo	Base cream DAC	86470517	1
Caelo	Base cream DAC	86480517	1
Caelo	Base cream DAC	86490517	4
Caelo	Base cream DAC	86580517	1
Caelo	Base cream DAC	8707	1
Caelo	Base cream DAC	8723	1
Caelo	Base cream DAC	88660717	1
Caelo	Base cream DAC	89(17229901)	1
Caelo	Base cream DAC	90(17229601)	1
Caelo	Base cream DAC	91(17251601)	1
Caelo	Base cream DAC	913I-01309	1
Caelo	Base cream DAC	91744011	1
Caelo	Base cream DAC	92(17266601)	1
Caelo	Base cream DAC	92703011	1
Caelo	Base cream DAC	93(17266901)	1
Caelo	Base cream DAC	93780318	1
Caelo	Base cream DAC	94(17269001)	1
Caelo	Base cream DAC	95(18085202)	1
Caelo	Base cream DAC	96(18037901)	1
Caelo	Base cream DAC	97(18138301)	1
Caelo	Base cream DAC	9876543	1
Caelo	Base cream DAC	99(18126301)	1
Caelo	Base cream DAC	AKD6	1
Caelo	Base cream DAC	AP210720-01	1
Caelo	Base cream DAC	Caelo14227701	1
Caelo	Base cream DAC	CH_B19117601	1
Caelo	Base cream DAC	Ch31	1
Caelo	Base cream DAC	CH5490000	1
Caelo	Base cream DAC	Chargenummer18193301	1
Caelo	Base cream DAC	CH-B17268601	1
Caelo	Base cream DAC	CH-B18269001	1
Caelo	Base cream DAC	CHB19170901	1
Caelo	Base cream DAC	T01-0769405	1
Caelo	Base cream DAC	testmessung	1
Caeol/ Noweda	Base cream DAC	17014401	1
Caeol/Noweda	Base cream DAC	18001401	1
Caeol/Noweda	Base cream DAC	19147801	1
Caeol/Noweda	Base cream DAC	21000817001	1
Caeol/Phönix	Base cream DAC	17029201	1
Caeol/Phönix	Base cream DAC	17240301	1
Caeol/Phönix	Base cream DAC	17251701	1
Caeol/Phönix	Base cream DAC	18015101	1
Caeolo ,	Base cream DAC	17264401	1
Caeolo/Krieger	Base cream DAC	17240301	2
Caeolo/Noweda	Base cream DAC	16152101	1
Caeolo/Noweda	Base cream DAC	17268801	1
Caeolo/Noweda	Base cream DAC	18001301	1
Caeolo/Sanacorp	Base cream DAC	18166801	1
Caeolo	Base cream DAC	16005301	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH / ...	Base cream DAC	20001689001	1
Caesar & Loretz GmbH / ...	Base cream DAC	21003067002	1
Caesar & Loretz GmbH / ...	Base cream DAC	21001257001	1
Caesar & Loretz GmbH / ...	Base cream DAC	21001258001	1
Caesar & Loretz GmbH / ...	Base cream DAC	21002389001	1
Caesar & Loretz GmbH / ...	Base cream DAC	21001249001	1
Caesar & Loretz GmbH / ...	Base cream DAC	21001259001	1
Caesar & Loretz GmbH / ...	Base cream DAC	20001682001	1
Caesar & Loretz GmbH / ...	Base cream DAC	21001250001	2
Caesar & Loretz GmbH / K	Base cream DAC	19003502	1
Caesar & Loretz GmbH / ...	Base cream DAC	19117701	1
Caesar & Loretz GmbH / ...	Base cream DAC	19052801	1
Caesar & Loretz GmbH / ...	Base cream DAC	19147801	3
Caesar & Loretz GmbH / ...	Base cream DAC	305728	1
Caesar & Loretz GmbH / ...	Base cream DAC	19117801	1
Caesar & Loretz GmbH / ...	Base cream DAC	19005676	1
Caesar & Loretz GmbH / ...	Base cream DAC	19147901	1
Caesar & Loretz GmbH / ...	Base cream DAC	19172501	2
Caesar & Loretz GmbH / ...	Base cream DAC	19002691	1
Caesar & Loretz GmbH Hi...	Base cream DAC	1308013-01	1
Caesar & Loretz GmbH Je...	Base cream DAC	20000686001	4
Caesar & Loretz GmbH Je...	Base cream DAC	20003190001	1
Caesar & Loretz GmbH No...	Base cream DAC	21000813001	1
Caesar & Loretz GmbH Ph...	Base cream DAC	22000279001	1
Caesar & Loretz GmbH Sa...	Base cream DAC	20004315001	2
Caesar & Loretz GmbH, 4...	Base cream DAC	11278901	1
Caesar & Loretz GmbH, 4...	Base cream DAC	12062601	1
Caesar & Loretz GmbH, 4...	Base cream DAC	12339101	1
Caesar & Loretz GmbH, 4...	Base cream DAC	13139702	1
Caesar & Loretz GmbH, P...	Base cream DAC	20001680001	1
Caesar & Loretz GmbH, P...	Base cream DAC	20001851001	1
Caesar & Loretz GmbH, P...	Base cream DAC	20002872001	1
Caesar & Loretz GmbH, P...	Base cream DAC	20003187001	1
Caesar & Loretz GmbH, P...	Base cream DAC	20003469001	1
Caesar & Loretz GmbH/ A...	Base cream DAC	19269901	1
Caesar & Loretz GmbH/ A...	Base cream DAC	20001683001	1
Caesar & Loretz GmbH/ A...	Base cream DAC	20000581001	1
Caesar & Loretz GmbH/ F...	Base cream DAC	19052701	1
Caesar & Loretz GmbH/ G...	Base cream DAC	19171001	1
Caesar & Loretz GmbH/ G...	Base cream DAC	19270501	1
Caesar & Loretz GmbH/ G...	Base cream DAC	20000582001	1
Caesar & Loretz GmbH/ G...	Base cream DAC	20000586001	1
Caesar & Loretz GmbH/ G...	Base cream DAC	20001006001	1
Caesar & Loretz GmbH/ G...	Base cream DAC	20001104001	2
Caesar & Loretz GmbH/ G...	Base cream DAC	20001678001	1
Caesar & Loretz GmbH/ G...	Base cream DAC	20001687001	1
Caesar & Loretz GmbH/ G...	Base cream DAC	20003196001	1
Caesar & Loretz GmbH/ G...	Base cream DAC	20003472001	1
Caesar & Loretz GmbH/ G...	Base cream DAC	20003473001	1
Caesar & Loretz GmbH/ G...	Base cream DAC	21000818001	1
Caesar & Loretz GmbH/ J...	Base cream DAC	21002522002	1
Caesar & Loretz GmbH/ K...	Base cream DAC	19239201	1
Caesar & Loretz GmbH/ N...	Base cream DAC	18269001	1
Caesar & Loretz GmbH/ N...	Base cream DAC	20000687001	2
Caesar & Loretz GmbH/ P...	Base cream DAC	20000054001	2
Caesar & Loretz GmbH/ P...	Base cream DAC	20001678001	1
Caesar & Loretz GmbH/ P...	Base cream DAC	20001867001	1
Caesar & Loretz GmbH/ P...	Base cream DAC	20002875001	1
Caesar & Loretz GmbH/ P...	Base cream DAC	21001246001	1
Caesar & Loretz GmbH/ P...	Base cream DAC	21004031001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/ S...	Base cream DAC	19171801	1
Caesar & Loretz GmbH/ S...	Base cream DAC	20001680001	1
Caesar & Loretz GmbH/ S...	Base cream DAC	20001860001	1
Caesar & Loretz GmbH/AEP	Base cream DAC	19118101	2
Caesar & Loretz GmbH/AEP	Base cream DAC	19269901	1
Caesar & Loretz GmbH/AEP	Base cream DAC	19270401	2
Caesar & Loretz GmbH/AHD	Base cream DAC	19117701	1
Caesar & Loretz GmbH/AHD	Base cream DAC	19172701	1
Caesar & Loretz GmbH/AHD	Base cream DAC	19240201	1
Caesar & Loretz GmbH/AHD	Base cream DAC	20001103001	1
Caesar & Loretz GmbH/AHD	Base cream DAC	20001689001	1
Caesar & Loretz GmbH/AHD	Base cream DAC	20001853001	1
Caesar & Loretz GmbH/AHD	Base cream DAC	20003829002	1
Caesar & Loretz GmbH/AHD	Base cream DAC	21001772001	1
Caesar & Loretz GmbH/AHD	Base cream DAC	21001776001	2
Caesar & Loretz GmbH/AHD	Base cream DAC	21002608001	2
Caesar & Loretz GmbH/Al...	Base cream DAC	19240901	1
Caesar & Loretz GmbH/Al...	Base cream DAC	19170201	1
Caesar & Loretz GmbH/Al...	Base cream DAC	19240801	1
Caesar & Loretz GmbH/Al...	Base cream DAC	20003195001	1
Caesar & Loretz GmbH/Al...	Base cream DAC	21001257001	1
Caesar & Loretz GmbH/Al...	Base cream DAC	21001767001	1
Caesar & Loretz GmbH/Al...	Base cream DAC	21002388001	1
Caesar & Loretz GmbH/Fi...	Base cream DAC	19240601	1
Caesar & Loretz GmbH/Fi...	Base cream DAC	19117601	1
Caesar & Loretz GmbH/Fi...	Base cream DAC	18232601	1
Caesar & Loretz GmbH/Fi...	Base cream DAC	19270101	1
Caesar & Loretz GmbH/Fi...	Base cream DAC	21001773001	1
Caesar & Loretz GmbH/Fi...	Base cream DAC	21003080001	1
Caesar & Loretz GmbH/G	Base cream DAC	18269501	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	18232501	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	18232601	3
Caesar & Loretz GmbH/Gehe	Base cream DAC	19020201	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	19052601	2
Caesar & Loretz GmbH/Gehe	Base cream DAC	19117601	2
Caesar & Loretz GmbH/Gehe	Base cream DAC	19118101	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	19239301	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	19270301	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	20000051001	2
Caesar & Loretz GmbH/Gehe	Base cream DAC	20000583	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	20000586001	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	20000687001	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	20001006001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	20001006001	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	20001008001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	20001008001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	20001104001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	20001854001	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	20001856001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	20003189001	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	20003193001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	20003193001	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	20003473001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	20003473001	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	20004317001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	21000813001	1
Caesar & Loretz GmbH/Gehe	Base cream DAC	21001247001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	21001247001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	21001253001	1
Caesar & Loretz GmbH/GEHE	Base cream DAC	21002388001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/GEHE	Base cream DAC	21002711001	1
Caesar & Loretz GmbH/Ge...	Base cream DAC	20000694001	2
Caesar & Loretz GmbH/Ge...	Base cream DAC	20001107001	1
Caesar & Loretz GmbH/Ge...	Base cream DAC	20001866001	1
Caesar & Loretz GmbH/Ge...	Base cream DAC	20002069001	1
Caesar & Loretz GmbH/Ge...	Base cream DAC	19240301	1
Caesar & Loretz GmbH/Ge...	Base cream DAC	19270201	1
Caesar & Loretz GmbH/GE...	Base cream DAC	19174001	1
Caesar & Loretz GmbH/Go...	Base cream DAC	19147901	1
Caesar & Loretz GmbH/Je...	Base cream DAC	19117601	1
Caesar & Loretz GmbH/Je...	Base cream DAC	19172501	1
Caesar & Loretz GmbH/Je...	Base cream DAC	19174501	1
Caesar & Loretz GmbH/Je...	Base cream DAC	19239301	1
Caesar & Loretz GmbH/Je...	Base cream DAC	19270201	1
Caesar & Loretz GmbH/Je...	Base cream DAC	20000053001	1
Caesar & Loretz GmbH/Je...	Base cream DAC	20001103001	1
Caesar & Loretz GmbH/Je...	Base cream DAC	20003192001	1
Caesar & Loretz GmbH/Je...	Base cream DAC	20003469001	1
Caesar & Loretz GmbH/Je...	Base cream DAC	20003477002	1
Caesar & Loretz GmbH/Je...	Base cream DAC	20004322001	1
Caesar & Loretz GmbH/Je...	Base cream DAC	21002710001	2
Caesar & Loretz GmbH/JE...	Base cream DAC	21002712001	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	21001766001	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	19053001	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	19174001	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	19301701	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	20000686001	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	20000687001	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	20003189001	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	20004315001	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	21001252001	1
Caesar & Loretz GmbH/Kr...	Base cream DAC	21001253001	1
Caesar & Loretz GmbH/No...	Base cream DAC	19020201	1
Caesar & Loretz GmbH/No...	Base cream DAC	17129901	1
Caesar & Loretz GmbH/No...	Base cream DAC	18269001	2
Caesar & Loretz GmbH/No...	Base cream DAC	19003401	1
Caesar & Loretz GmbH/No...	Base cream DAC	19003701	1
Caesar & Loretz GmbH/No...	Base cream DAC	19003901	1
Caesar & Loretz GmbH/No...	Base cream DAC	19005674	1
Caesar & Loretz GmbH/No...	Base cream DAC	19117501	1
Caesar & Loretz GmbH/No...	Base cream DAC	19118401	1
Caesar & Loretz GmbH/No...	Base cream DAC	19147801	2
Caesar & Loretz GmbH/No...	Base cream DAC	19170601	1
Caesar & Loretz GmbH/No...	Base cream DAC	19170701	1
Caesar & Loretz GmbH/No...	Base cream DAC	19171001	2
Caesar & Loretz GmbH/No...	Base cream DAC	19172201	6
Caesar & Loretz GmbH/No...	Base cream DAC	19172301	1
Caesar & Loretz GmbH/No...	Base cream DAC	19172901	1
Caesar & Loretz GmbH/No...	Base cream DAC	19173901	1
Caesar & Loretz GmbH/No...	Base cream DAC	19270401	1
Caesar & Loretz GmbH/No...	Base cream DAC	20000581001	1
Caesar & Loretz GmbH/No...	Base cream DAC	20000584001	2
Caesar & Loretz GmbH/No...	Base cream DAC	20001009001	1
Caesar & Loretz GmbH/No...	Base cream DAC	20001105001	1
Caesar & Loretz GmbH/No...	Base cream DAC	20001686001	1
Caesar & Loretz GmbH/no...	Base cream DAC	20001687001	2
Caesar & Loretz GmbH/No...	Base cream DAC	20001687001	1
Caesar & Loretz GmbH/No...	Base cream DAC	20003197001	1
Caesar & Loretz GmbH/No...	Base cream DAC	21000821001	1
Caesar & Loretz GmbH/No...	Base cream DAC	21001770001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/No…	Base cream DAC	21001772001	1
Caesar & Loretz GmbH/P	Base cream DAC	19173001	1
Caesar & Loretz GmbH/phö	Base cream DAC	20000586001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	19020001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	19051801	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	19240501	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	19270301	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20001680001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20002068001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	21001251001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	21001773001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	21002524001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	21003072002	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	19003701	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	19172901	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	19301202	1
Caesar & Loretz GmbH/ph…	Base cream DAC	20000058001	5
Caesar & Loretz GmbH/Ph…	Base cream DAC	20000686001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20000689001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20001102001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20001103001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20001678001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20001867001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20002065001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20002869001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20003187001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20003189001	1
Caesar & Loretz GmbH/ph…	Base cream DAC	20003196001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20003288001	2
Caesar & Loretz GmbH/Ph…	Base cream DAC	20003474001	5
Caesar & Loretz GmbH/Ph…	Base cream DAC	20003832001	4
Caesar & Loretz GmbH/Ph…	Base cream DAC	20004315001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	20004317001	2
Caesar & Loretz GmbH/Ph…	Base cream DAC	20004328001	6
Caesar & Loretz GmbH/Ph…	Base cream DAC	20004606	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	21000820	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	21002388001	1
Caesar & Loretz GmbH/Ph…	Base cream DAC	21002523001	1
Caesar & Loretz GmbH/Sana	Base cream DAC	21002525001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	18269401	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	19118101	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	19147901	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	19153601	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	19170701	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	19239001	1
Caesar & Loretz GmbH/sa…	Base cream DAC	19239201	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	19270601	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	19301901	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	200004317001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20000582001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20001105001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20001850001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20002872001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20003189001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20003288001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20003472001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20003473001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20003830001	2
Caesar & Loretz GmbH/Sa…	Base cream DAC	2000383001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	20004318001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Sa…	Base cream DAC	20004323001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	2003189001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	21001252001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	21001258001	2
Caesar & Loretz GmbH/Sa…	Base cream DAC	21001260001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	21001767001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	21002391001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	21002606001	2
Caesar & Loretz GmbH/Sa…	Base cream DAC	21003064001	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	AP210212-01	1
Caesar & Loretz GmbH/Sa…	Base cream DAC	AP210622-06	1
Caesar & Loretz GmbH	Base cream DAC	18138101	1
Caesar & Loretz GmbH	Base cream DAC	18167001	1
Caesar & Loretz GmbH	Base cream DAC	18193001	1
Caesar & Loretz GmbH	Base cream DAC	18232701	2
Caesar & Loretz GmbH	Base cream DAC	18232801	2
Caesar & Loretz GmbH	Base cream DAC	18269001	3
Caesar & Loretz GmbH	Base cream DAC	18269101	2
Caesar & Loretz GmbH	Base cream DAC	18269201	1
Caesar & Loretz GmbH	Base cream DAC	18269301	2
Caesar & Loretz GmbH	Base cream DAC	18269401	6
Caesar & Loretz GmbH	Base cream DAC	18269501	9
Caesar & Loretz GmbH	Base cream DAC	18269601	2
Caesar & Loretz GmbH	Base cream DAC	18269701	2
Caesar & Loretz GmbH	Base cream DAC	18269801	5
Caesar & Loretz GmbH	Base cream DAC	18269901	9
Caesar & Loretz GmbH	Base cream DAC	18270001	4
Caesar & Loretz GmbH	Base cream DAC	18270401	2
Caesar & Loretz GmbH	Base cream DAC	18270501	1
Caesar & Loretz GmbH	Base cream DAC	18270701	3
Caesar & Loretz GmbH	Base cream DAC	18270801	2
Caesar & Loretz GmbH	Base cream DAC	18270901	9
Caesar & Loretz GmbH	Base cream DAC	18271001	4
Caesar & Loretz GmbH	Base cream DAC	18271101	4
Caesar & Loretz GmbH	Base cream DAC	18271301	3
Caesar & Loretz GmbH	Base cream DAC	18272201	4
Caesar & Loretz GmbH	Base cream DAC	18272301	10
Caesar & Loretz GmbH	Base cream DAC	19000946	3
Caesar & Loretz GmbH	Base cream DAC	19003101	2
Caesar & Loretz GmbH	Base cream DAC	19003502	5
Caesar & Loretz GmbH	Base cream DAC	19003505	1
Caesar & Loretz GmbH	Base cream DAC	19003601	2
Caesar & Loretz GmbH	Base cream DAC	19003701	5
Caesar & Loretz GmbH	Base cream DAC	19003801	1
Caesar & Loretz GmbH	Base cream DAC	19003901	6
Caesar & Loretz GmbH	Base cream DAC	19019901	2
Caesar & Loretz GmbH	Base cream DAC	19020201	7
Caesar & Loretz GmbH	Base cream DAC	19040801	1
Caesar & Loretz GmbH	Base cream DAC	19052001	1
Caesar & Loretz GmbH	Base cream DAC	19052401	4
Caesar & Loretz GmbH	Base cream DAC	19052501	1
Caesar & Loretz GmbH	Base cream DAC	19052601	4
Caesar & Loretz GmbH	Base cream DAC	19052701	6
Caesar & Loretz GmbH	Base cream DAC	19052801	1
Caesar & Loretz GmbH	Base cream DAC	19052901	3
Caesar & Loretz GmbH	Base cream DAC	19053001	1
Caesar & Loretz GmbH	Base cream DAC	19053101	4
Caesar & Loretz GmbH	Base cream DAC	19053201	1
Caesar & Loretz GmbH	Base cream DAC	19053301	3
Caesar & Loretz GmbH	Base cream DAC	19075901	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Base cream DAC	19076001	5
Caesar & Loretz GmbH	Base cream DAC	19116801	9
Caesar & Loretz GmbH	Base cream DAC	19116901	1
Caesar & Loretz GmbH	Base cream DAC	19117001	1
Caesar & Loretz GmbH	Base cream DAC	19117101	1
Caesar & Loretz GmbH	Base cream DAC	19117201	1
Caesar & Loretz GmbH	Base cream DAC	19117301	3
Caesar & Loretz GmbH	Base cream DAC	19117401	1
Caesar & Loretz GmbH	Base cream DAC	19117501	3
Caesar & Loretz GmbH	Base cream DAC	19117601	7
Caesar & Loretz GmbH	Base cream DAC	19117701	1
Caesar & Loretz GmbH	Base cream DAC	19117801	4
Caesar & Loretz GmbH	Base cream DAC	19118001	2
Caesar & Loretz GmbH	Base cream DAC	19118101	3
Caesar & Loretz GmbH	Base cream DAC	19118301	2
Caesar & Loretz GmbH	Base cream DAC	19118401	7
Caesar & Loretz GmbH	Base cream DAC	191272501	1
Caesar & Loretz GmbH	Base cream DAC	19147801	4
Caesar & Loretz GmbH	Base cream DAC	19147901	4
Caesar & Loretz GmbH	Base cream DAC	19148001	6
Caesar & Loretz GmbH	Base cream DAC	19153601	4
Caesar & Loretz GmbH	Base cream DAC	19153801	2
Caesar & Loretz GmbH	Base cream DAC	19170201	3
Caesar & Loretz GmbH	Base cream DAC	19170301	5
Caesar & Loretz GmbH	Base cream DAC	19170401	2
Caesar & Loretz GmbH	Base cream DAC	19170501	3
Caesar & Loretz GmbH	Base cream DAC	19170601	2
Caesar & Loretz GmbH	Base cream DAC	19170701	11
Caesar & Loretz GmbH	Base cream DAC	19171001	2
Caesar & Loretz GmbH	Base cream DAC	19171801	4
Caesar & Loretz GmbH	Base cream DAC	19172001	3
Caesar & Loretz GmbH	Base cream DAC	19172101	2
Caesar & Loretz GmbH	Base cream DAC	19172201	1
Caesar & Loretz GmbH	Base cream DAC	19172301	1
Caesar & Loretz GmbH	Base cream DAC	19172401	4
Caesar & Loretz GmbH	Base cream DAC	19172501	14
Caesar & Loretz GmbH	Base cream DAC	19172601	9
Caesar & Loretz GmbH	Base cream DAC	19172701	9
Caesar & Loretz GmbH	Base cream DAC	19172801	3
Caesar & Loretz GmbH	Base cream DAC	19173001	3
Caesar & Loretz GmbH	Base cream DAC	19173101	1
Caesar & Loretz GmbH	Base cream DAC	19173201	3
Caesar & Loretz GmbH	Base cream DAC	19173301	1
Caesar & Loretz GmbH	Base cream DAC	19173401	1
Caesar & Loretz GmbH	Base cream DAC	19173701	3
Caesar & Loretz GmbH	Base cream DAC	19173901	6
Caesar & Loretz GmbH	Base cream DAC	19174001	1
Caesar & Loretz GmbH	Base cream DAC	19174101	3
Caesar & Loretz GmbH	Base cream DAC	19174201	3
Caesar & Loretz GmbH	Base cream DAC	19174301	9
Caesar & Loretz GmbH	Base cream DAC	19174401	6
Caesar & Loretz GmbH	Base cream DAC	19174501	3
Caesar & Loretz GmbH	Base cream DAC	19239001	2
Caesar & Loretz GmbH	Base cream DAC	19239201	9
Caesar & Loretz GmbH	Base cream DAC	19239301	4
Caesar & Loretz GmbH	Base cream DAC	19239401	3
Caesar & Loretz GmbH	Base cream DAC	19240201	3
Caesar & Loretz GmbH	Base cream DAC	19240301	4
Caesar & Loretz GmbH	Base cream DAC	19240401	8
Caesar & Loretz GmbH	Base cream DAC	19240501	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Base cream DAC	19240601	7
Caesar & Loretz GmbH	Base cream DAC	19240701	5
Caesar & Loretz GmbH	Base cream DAC	19240801	2
Caesar & Loretz GmbH	Base cream DAC	19269501	1
Caesar & Loretz GmbH	Base cream DAC	19269601	1
Caesar & Loretz GmbH	Base cream DAC	19269701	2
Caesar & Loretz GmbH	Base cream DAC	19269801	4
Caesar & Loretz GmbH	Base cream DAC	19269901	1
Caesar & Loretz GmbH	Base cream DAC	19270001	4
Caesar & Loretz GmbH	Base cream DAC	19270101	2
Caesar & Loretz GmbH	Base cream DAC	19270201	11
Caesar & Loretz GmbH	Base cream DAC	19270301	3
Caesar & Loretz GmbH	Base cream DAC	19270501	5
Caesar & Loretz GmbH	Base cream DAC	19270601	4
Caesar & Loretz GmbH	Base cream DAC	19270701	7
Caesar & Loretz GmbH	Base cream DAC	19301202	7
Caesar & Loretz GmbH	Base cream DAC	19301701	2
Caesar & Loretz GmbH	Base cream DAC	19301801	5
Caesar & Loretz GmbH	Base cream DAC	19301901	1
Caesar & Loretz GmbH	Base cream DAC	20000036001	1
Caesar & Loretz GmbH	Base cream DAC	20000042001	3
Caesar & Loretz GmbH	Base cream DAC	20000047001	1
Caesar & Loretz GmbH	Base cream DAC	2000004701	1
Caesar & Loretz GmbH	Base cream DAC	20000051001	8
Caesar & Loretz GmbH	Base cream DAC	20000052001	6
Caesar & Loretz GmbH	Base cream DAC	20000053001	3
Caesar & Loretz GmbH	Base cream DAC	20000054001	2
Caesar & Loretz GmbH	Base cream DAC	20000055001	1
Caesar & Loretz GmbH	Base cream DAC	20000056001	1
Caesar & Loretz GmbH	Base cream DAC	20000057001	3
Caesar & Loretz GmbH	Base cream DAC	20000099001	1
Caesar & Loretz GmbH	Base cream DAC	20000311001	1
Caesar & Loretz GmbH	Base cream DAC	2000055001	1
Caesar & Loretz GmbH	Base cream DAC	20000579001	2
Caesar & Loretz GmbH	Base cream DAC	20000580001	9
Caesar & Loretz GmbH	Base cream DAC	2000058001	1
Caesar & Loretz GmbH	Base cream DAC	20000581001	3
Caesar & Loretz GmbH	Base cream DAC	20000582001	5
Caesar & Loretz GmbH	Base cream DAC	20000583001	3
Caesar & Loretz GmbH	Base cream DAC	20000584001	2
Caesar & Loretz GmbH	Base cream DAC	20000586001	2
Caesar & Loretz GmbH	Base cream DAC	20000686001	5
Caesar & Loretz GmbH	Base cream DAC	20000687001	8
Caesar & Loretz GmbH	Base cream DAC	20000688001	2
Caesar & Loretz GmbH	Base cream DAC	20000689001	6
Caesar & Loretz GmbH	Base cream DAC	20000690001	2
Caesar & Loretz GmbH	Base cream DAC	20000691001	4
Caesar & Loretz GmbH	Base cream DAC	20000692001	2
Caesar & Loretz GmbH	Base cream DAC	20000694001	1
Caesar & Loretz GmbH	Base cream DAC	20001006001	5
Caesar & Loretz GmbH	Base cream DAC	20001007001	5
Caesar & Loretz GmbH	Base cream DAC	20001008001	7
Caesar & Loretz GmbH	Base cream DAC	20001009001	5
Caesar & Loretz GmbH	Base cream DAC	20001101001	2
Caesar & Loretz GmbH	Base cream DAC	20001102001	1
Caesar & Loretz GmbH	Base cream DAC	20001103001	8
Caesar & Loretz GmbH	Base cream DAC	20001105001	4
Caesar & Loretz GmbH	Base cream DAC	20001106001	7
Caesar & Loretz GmbH	Base cream DAC	20001108001	2
Caesar & Loretz GmbH	Base cream DAC	20001677001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Base cream DAC	20001678001	5
Caesar & Loretz GmbH	Base cream DAC	20001679001	3
Caesar & Loretz GmbH	Base cream DAC	20001680001	4
Caesar & Loretz GmbH	Base cream DAC	20001682001	1
Caesar & Loretz GmbH	Base cream DAC	20001683001	1
Caesar & Loretz GmbH	Base cream DAC	20001684001	2
Caesar & Loretz GmbH	Base cream DAC	20001685001	3
Caesar & Loretz GmbH	Base cream DAC	20001686001	7
Caesar & Loretz GmbH	Base cream DAC	20001688001	1
Caesar & Loretz GmbH	Base cream DAC	20001689002	1
Caesar & Loretz GmbH	Base cream DAC	20001850001	1
CAESAR & LORETZ GMBH	Base cream DAC	20001850001	1
Caesar & Loretz GmbH	Base cream DAC	20001852001	5
Caesar & Loretz GmbH	Base cream DAC	20001854001	5
Caesar & Loretz GmbH	Base cream DAC	20001855001	1
Caesar & Loretz GmbH	Base cream DAC	20001860001	2
Caesar & Loretz GmbH	Base cream DAC	20001861001	2
Caesar & Loretz GmbH	Base cream DAC	20001862001	4
Caesar & Loretz GmbH	Base cream DAC	20001865001	6
Caesar & Loretz GmbH	Base cream DAC	20001866001	2
Caesar & Loretz GmbH	Base cream DAC	20001867001	1
Caesar & Loretz GmbH	Base cream DAC	20001868001	2
Caesar & Loretz GmbH	Base cream DAC	20002065001	6
Caesar & Loretz GmbH	Base cream DAC	20002066001	2
Caesar & Loretz GmbH	Base cream DAC	20002067001	3
Caesar & Loretz GmbH	Base cream DAC	20002068001	1
Caesar & Loretz GmbH	Base cream DAC	20002069001	1
Caesar & Loretz GmbH	Base cream DAC	20002870001	4
Caesar & Loretz GmbH	Base cream DAC	20002872001	1
Caesar & Loretz GmbH	Base cream DAC	20002873001	4
Caesar & Loretz GmbH	Base cream DAC	20002874001	7
Caesar & Loretz GmbH	Base cream DAC	20002876001	1
Caesar & Loretz GmbH	Base cream DAC	20002877001	3
Caesar & Loretz GmbH	Base cream DAC	2000287701	1
Caesar & Loretz GmbH	Base cream DAC	20003182001	1
Caesar & Loretz GmbH	Base cream DAC	20003186001	2
Caesar & Loretz GmbH	Base cream DAC	20003187001	7
Caesar & Loretz GmbH	Base cream DAC	20003188001	4
Caesar & Loretz GmbH	Base cream DAC	20003189001	2
Caesar & Loretz GmbH	Base cream DAC	20003190001	10
Caesar & Loretz GmbH	Base cream DAC	20003191001	3
Caesar & Loretz GmbH	Base cream DAC	20003192001	1
Caesar & Loretz GmbH	Base cream DAC	20003194001	2
Caesar & Loretz GmbH	Base cream DAC	20003195001	6
Caesar & Loretz GmbH	Base cream DAC	20003196001	1
Caesar & Loretz GmbH	Base cream DAC	20003197001	2
Caesar & Loretz GmbH	Base cream DAC	20003287001	2
Caesar & Loretz GmbH	Base cream DAC	20003288001	1
Caesar & Loretz GmbH	Base cream DAC	20003469001	5
Caesar & Loretz GmbH	Base cream DAC	20003470001	3
Caesar & Loretz GmbH	Base cream DAC	2000347001	2
Caesar & Loretz GmbH	Base cream DAC	20003471001	1
Caesar & Loretz GmbH	Base cream DAC	20003472001	1
Caesar & Loretz GmbH	Base cream DAC	20003473001	5
Caesar & Loretz GmbH	Base cream DAC	20003474001	11
Caesar & Loretz GmbH	Base cream DAC	20003476001	5
Caesar & Loretz GmbH	Base cream DAC	20003477002	2
Caesar & Loretz GmbH	Base cream DAC	20003731001	1
Caesar & Loretz GmbH	Base cream DAC	20003829002	1
Caesar & Loretz GmbH	Base cream DAC	20003830001	7

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Base cream DAC	20003831001	1
Caesar & Loretz GmbH	Base cream DAC	20003832001	1
Caesar & Loretz GmbH	Base cream DAC	20003833001	1
Caesar & Loretz GmbH	Base cream DAC	20003834001	2
Caesar & Loretz GmbH	Base cream DAC	20003835001	1
Caesar & Loretz GmbH	Base cream DAC	20004313001	1
Caesar & Loretz GmbH	Base cream DAC	20004314001	2
Caesar & Loretz GmbH	Base cream DAC	20004315001	5
Caesar & Loretz GmbH	Base cream DAC	20004317001	2
Caesar & Loretz GmbH	Base cream DAC	20004318001	2
Caesar & Loretz GmbH	Base cream DAC	20004319001	3
Caesar & Loretz GmbH	Base cream DAC	20004322001	2
Caesar & Loretz GmbH	Base cream DAC	20004323001	5
Caesar & Loretz GmbH	Base cream DAC	20004328001	4
Caesar & Loretz GmbH	Base cream DAC	20004329001	1
Caesar & Loretz GmbH	Base cream DAC	20004331001	2
Caesar & Loretz GmbH	Base cream DAC	210001259001	1
Caesar & Loretz GmbH	Base cream DAC	21000812002	1
Caesar & Loretz GmbH	Base cream DAC	21000813001	2
Caesar & Loretz GmbH	Base cream DAC	21000814001	6
Caesar & Loretz GmbH	Base cream DAC	21000816001	5
Caesar & Loretz GmbH	Base cream DAC	21000817001	7
Caesar & Loretz GmbH	Base cream DAC	21000818001	2
Caesar & Loretz GmbH	Base cream DAC	21000819001	1
Caesar & Loretz GmbH	Base cream DAC	21000820001	1
Caesar & Loretz GmbH	Base cream DAC	21001243001	2
Caesar & Loretz GmbH	Base cream DAC	21001243002	7
Caesar & Loretz GmbH	Base cream DAC	21001245001	2
Caesar & Loretz GmbH	Base cream DAC	21001246001	2
Caesar & Loretz GmbH	Base cream DAC	21001247001	2
Caesar & Loretz GmbH	Base cream DAC	21001249001	2
Caesar & Loretz GmbH	Base cream DAC	21001250001	7
Caesar & Loretz GmbH	Base cream DAC	21001251001	12
Caesar & Loretz GmbH	Base cream DAC	21001252001	1
Caesar & Loretz GmbH	Base cream DAC	21001253001	1
Caesar & Loretz GmbH	Base cream DAC	21001254001	3
Caesar & Loretz GmbH	Base cream DAC	21001256001	1
Caesar & Loretz GmbH	Base cream DAC	21001258001	2
Caesar & Loretz GmbH	Base cream DAC	21001259001	6
Caesar & Loretz GmbH	Base cream DAC	21001765001	1
Caesar & Loretz GmbH	Base cream DAC	21001766001	1
Caesar & Loretz GmbH	Base cream DAC	21001767001	1
Caesar & Loretz GmbH	Base cream DAC	21001769001	5
Caesar & Loretz GmbH	Base cream DAC	21001770001	1
Caesar & Loretz GmbH	Base cream DAC	21001772001	7
Caesar & Loretz GmbH	Base cream DAC	21001774001	1
Caesar & Loretz GmbH	Base cream DAC	21001775001	3
Caesar & Loretz GmbH	Base cream DAC	21001776001	2
Caesar & Loretz GmbH	Base cream DAC	21001778001	1
Caesar & Loretz GmbH	Base cream DAC	21001779001	2
Caesar & Loretz GmbH	Base cream DAC	21002384001	1
Caesar & Loretz GmbH	Base cream DAC	21002385001	1
Caesar & Loretz GmbH	Base cream DAC	21002387001	3
Caesar & Loretz GmbH	Base cream DAC	21002388001	2
Caesar & Loretz GmbH	Base cream DAC	21002389001	1
Caesar & Loretz GmbH	Base cream DAC	21002390001	2
Caesar & Loretz GmbH	Base cream DAC	21002391001	2
Caesar & Loretz GmbH	Base cream DAC	21002522002	2
Caesar & Loretz GmbH	Base cream DAC	21002523001	2
Caesar & Loretz GmbH	Base cream DAC	21002524001	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Base cream DAC	21002525001	1
Caesar & Loretz GmbH	Base cream DAC	21002604001	1
Caesar & Loretz GmbH	Base cream DAC	21002605001	2
Caesar & Loretz GmbH	Base cream DAC	21002607001	1
Caesar & Loretz GmbH	Base cream DAC	21002608001	2
Caesar & Loretz GmbH	Base cream DAC	21002609001	1
Caesar & Loretz GmbH	Base cream DAC	21002708001	1
Caesar & Loretz GmbH	Base cream DAC	21002710001	2
Caesar & Loretz GmbH	Base cream DAC	21002711001	2
Caesar & Loretz GmbH	Base cream DAC	21002713001	1
Caesar & Loretz GmbH	Base cream DAC	21002714001	3
Caesar & Loretz GmbH	Base cream DAC	21002718001	4
Caesar & Loretz GmbH	Base cream DAC	21003063001	1
Caesar & Loretz GmbH	Base cream DAC	21003064001	2
Caesar & Loretz GmbH	Base cream DAC	21003066001	2
Caesar & Loretz GmbH	Base cream DAC	21003068001	2
Caesar & Loretz GmbH	Base cream DAC	21003069001	1
Caesar & Loretz GmbH	Base cream DAC	21003070001	1
Caesar & Loretz GmbH	Base cream DAC	21003071001	4
Caesar & Loretz GmbH	Base cream DAC	21003072001	1
Caesar & Loretz GmbH	Base cream DAC	21003072002	2
Caesar & Loretz GmbH	Base cream DAC	21003073001	1
Caesar & Loretz GmbH	Base cream DAC	21003803002	2
Caesar & Loretz GmbH	Base cream DAC	21004028001	1
Caesar & Loretz GmbH	Base cream DAC	21004029001	2
Caesar & Loretz GmbH	Base cream DAC	22000274001	1
Caesar & Loretz GmbH	Base cream DAC	22000276001	1
Caesar & Loretz GmbH	Base cream DAC	22000279001	1
Caesar & Loretz GmbH	Base cream DAC	22000635001	1
Caesar & Loretz GmbH	Base cream DAC	AP20101901	1
Caesar & Loretz GmbHFie...	Base cream DAC	19053301	1
Caesar & Loretz Hilden/...	Base cream DAC	20001854001	1
Caesar & Loretz Hilden/...	Base cream DAC	20002067001	1
Caesar & Loretz Hilden/...	Base cream DAC	20003469001	1
Caesar & Loretz/ Caesar...	Base cream DAC	18037201	1
Caesar & Loretz/ Noweda	Base cream DAC	18105101	1
Caesar & Loretz/AHC	Base cream DAC	38540516	3
Caesar & Loretz/AHD	Base cream DAC	21002388001	1
Caesar & Loretz/Noweda	Base cream DAC	15184401	1
Caesar & Loretz/Noweda	Base cream DAC	17154001	1
Caesar & Loretz	Base cream DAC	19003201	1
Caesar /phönix	Base cream DAC	13139901	2
Caesar und Loretz GmbH	Base cream DAC	17155001	1
Caesar&Lorenz	Base cream DAC	20003288003	1
Caesar&Lorenz	Base cream DAC	21000814001	1
Caesar&Lorenz	Base cream DAC	21002522002	1
Caesar&Loretz GmbH 7Anzag	Base cream DAC	39630217	1
Caesar&Loretz GmbH/Gehe	Base cream DAC	19116901	1
Caesar&Loretz GmbH	Base cream DAC	16241601	1
Caesar&Loretz GmbH	Base cream DAC	16329201	3
Caesar&Loretz GmbH	Base cream DAC	18192501	1
Caesar&loretz,Anzag	Base cream DAC	15250101	1
Caesar&Loretz/Caesar&Lo...	Base cream DAC	15272601	1
Caesar&Loretz/Noweda	Base cream DAC	20000690001	1
Caesar&Loretz/Noweda	Base cream DAC	20001687001	1
Caesar&Loretz/Noweda	Base cream DAC	21000815001	1
Caesar&Loretz	Base cream DAC	16005201	1
Caesar&Loretz	Base cream DAC	16219401	1
Caesar&Loretz	Base cream DAC	16350501	1
Caesar&Loretz	Base cream DAC	17031901	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caeser & Loretz GmbH	Base cream DAC	20003833001	1
Caeser und Loretz GmbH	Base cream DAC	19117701	2
Caeser und Loretz GmbH	Base cream DAC	19153601	1
Calea KEHR	Base cream DAC	19174001	1
Caleo/ Ebert	Base cream DAC	18126301	1
Caleo/ Gehe	Base cream DAC	18036501	1
Caleo/ Noweda	Base cream DAC	16261201	2
Caleo/ Noweda	Base cream DAC	18192501	1
Caleo/ Noweda	Base cream DAC	1866401	1
Caleo/Fiebig	Base cream DAC	16242201	1
Caleo/noweda	Base cream DAC	17349801	1
calo	Base cream DAC	13012401	1
Calo	Base cream DAC	15306701	1
Carelo/Noweda	Base cream DAC	18165801	1
Carlo	Base cream DAC	20001677001	1
Cealo / Noweda	Base cream DAC	14092001	1
Cealo/ Noweda	Base cream DAC	17000921	1
Cealo/AHD	Base cream DAC	6003682014	1
Cealo/AHD	Base cream DAC	6004859003	2
Cealo/Anzag	Base cream DAC	19240701	1
Cealo/Gehe	Base cream DAC	12175101	1
Cealo/Gehe	Base cream DAC	18138401	1
Cealo/Gehe	Base cream DAC	18165301	2
Cealo/GEHE	Base cream DAC	20000058001	1
Cealo/Jenne	Base cream DAC	220906(22000630001)	1
Cealo/Noweda	Base cream DAC	18166101	1
Cealo/Phönix	Base cream DAC	16329201	1
Cealo/Phönix	Base cream DAC	18165301	1
Cealo/Phönix	Base cream DAC	20003187001	1
Cealo/Sanacorp	Base cream DAC	16261501	1
Cealo/Sanacorp	Base cream DAC	171338001	1
Cealo/Sanacorp	Base cream DAC	19053001	4
Cealo	Base cream DAC	12249401	1
Cealo	Base cream DAC	142990001	1
Cealo	Base cream DAC	15184301	1
Cealo	Base cream DAC	16055801	1
Cealo	Base cream DAC	17264601	1
Cealo	Base cream DAC	18005240	2
cealo	Base cream DAC	19051801	1
celo/phönix	Base cream DAC	13377901	3
Celo	Base cream DAC	16005101	1
celo	Base cream DAC	16329201	1
Celo	Base cream DAC	1923901	1
chaelo/gehe	Base cream DAC	17251701	1
cordes/noweda	Base cream DAC	18270901	1
D'Oroderm	Base cream DAC	1346001	1
DORODERM GmbH & Co.KG	Base cream DAC	1346001	2
DAC 2011	Base cream DAC	12061901	1
DAC 2011	Base cream DAC	13188401	1
Defektur	Base cream DAC	16325901	2
Delta	Base cream DAC	17154401	2
Delta	Base cream DAC	18037101	2
Delta	Base cream DAC	18105402	7
Dermasence	Base cream DAC	260820	1
Direkt/Phönix	Base cream DAC	50211015	4
doroderm GmbH	Base cream DAC	1202001	2
D'oroderm GmBH	Base cream DAC	1346001	4
D'Oroderm GmBH	Base cream DAC	1346001	1
Doroderm/ Noweda	Base cream DAC	1202001	4
D'ORODERM/Noweda	Base cream DAC	1346001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
D'oroderm	Base cream DAC	1346001	4
D'ORODERM	Base cream DAC	1346001	1
Dr. August Wolff/Phönix	Base cream DAC	18272301	1
Dr. Wolff	Base cream DAC	14325601	1
E Plus	Base cream DAC	18000961	3
E Plus	Base cream DAC	18005744	1
Easy Höchst	Base cream DAC	18E23-T16-056321	1
Ebert & Jacobi	Base cream DAC	19000951	1
Ebert & Jacobi	Base cream DAC	6862441	1
Ebert und Jacobi	Base cream DAC	18105402	1
Ebert	Base cream DAC	14053601	1
Ebert	Base cream DAC	14090401	1
eigene Herstellung	Base cream DAC	16261801	1
Eimer/ Noweda	Base cream DAC	72240417	1
Eimerbacher Gmbh,Gesche...	Base cream DAC	61361217-20180830Ma6	1
Eimermacher / Anzag	Base cream DAC	48560921	1
Eimermacher / Sanacorp	Base cream DAC	86440517	1
Eimermacher / Sonnenapo...	Base cream DAC	40150120	1
Eimermacher / Sonnenapo...	Base cream DAC	62550918	1
Eimermacher Direktbezug	Base cream DAC	57080315	1
Eimermacher Ensbona	Base cream DAC	14150817	1
Eimermacher Ensbona	Base cream DAC	61361217	2
Eimermacher GmbH	Base cream DAC	47880419	2
Eimermacher GmbH	Base cream DAC	70570420	4
Eimermacher GmbH	Base cream DAC	71940619	3
Eimermacher GmbH	Base cream DAC	80400719	2
Eimermacher/ 4	Base cream DAC	570903158	1
Eimermacher/ Eimermacher	Base cream DAC	80340218	1
Eimermacher/ Noweda	Base cream DAC	71950619	1
Eimermacher/ Phoenix	Base cream DAC	80400719	3
Eimermacher/AHD	Base cream DAC	48560921	7
Eimermacher/Alliance	Base cream DAC	63340317	2
Eimermacher/BC	Base cream DAC	14120715	1
Eimermacher/BC	Base cream DAC	39590217	1
Eimermacher/BC	Base cream DAC	57090315	1
Eimermacher/BC	Base cream DAC	8630717	2
Eimermacher/Brunnencenter	Base cream DAC	1200216	1
Eimermacher/Brunnencenter	Base cream DAC	39590217	1
Eimermacher/Brunnencenter	Base cream DAC	6671116	2
Eimermacher/Direkt	Base cream DAC	10067198	1
Eimermacher/Direkt	Base cream DAC	15730518	8
Eimermacher/Direkt	Base cream DAC	40150120	5
Eimermacher/Direkt	Base cream DAC	61361217	5
Eimermacher/Direkt	Base cream DAC	80600520	5
Eimermacher/Direkt	Base cream DAC	98770122	3
Eimermacher/Eimermacher	Base cream DAC	14130715	5
Eimermacher/Eimermacher	Base cream DAC	60630519	1
Eimermacher/Ensbona	Base cream DAC	14130715	1
Eimermacher/Ensbona	Base cream DAC	29230416	2
Eimermacher/Ensbona	Base cream DAC	63340317	1
Eimermacher/Fiebig	Base cream DAC	13181119	1
Eimermacher/Fiebig	Base cream DAC	55770320	1
Eimermacher/Gehe	Base cream DAC	40140120	2
Eimermacher/Gehe	Base cream DAC	71950619	2
Eimermacher/Gehe	Base cream DAC	87231118	1
Eimermacher/Noweda	Base cream DAC	14120715	2
Eimermacher/Noweda	Base cream DAC	36510319	2
Eimermacher/Noweda	Base cream DAC	39590217	1
Eimermacher/Noweda	Base cream DAC	70570420	1
Eimermacher/Noweda	Base cream DAC	8630717	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Eimermacher/Phoenix	Base cream DAC	60630519	1
Eimermacher/Phoenix	Base cream DAC	71940619	1
Eimermacher/Phoenix	Base cream DAC	80340218	1
Eimermacher/Phoenix	Base cream DAC	80400719	2
Eimermacher/Phoenix	Base cream DAC	95980718	1
Eimermacher/Phönix	Base cream DAC	15730518	1
Eimermacher/Sanacorp	Base cream DAC	14120715	1
Eimermacher/Sanacorp	Base cream DAC	74420221	2
Eimermacher	Base cream DAC	12170214	5
Eimermacher	Base cream DAC	13510119	6
Eimermacher	Base cream DAC	14130817	1
Eimermacher	Base cream DAC	14150817	5
Eimermacher	Base cream DAC	15660621	3
Eimermacher	Base cream DAC	15670621	1
Eimermacher	Base cream DAC	19440920	4
Eimermacher	Base cream DAC	23090414	1
Eimermacher	Base cream DAC	23780219	1
Eimermacher	Base cream DAC	2770713	1
Eimermacher	Base cream DAC	28310913	2
Eimermacher	Base cream DAC	3301218	1
Eimermacher	Base cream DAC	3370720	4
Eimermacher	Base cream DAC	36140913	1
Eimermacher	Base cream DAC	36500319	2
Eimermacher	Base cream DAC	39590217	5
Eimermacher	Base cream DAC	40140120	2
Eimermacher	Base cream DAC	40160120	4
Eimermacher	Base cream DAC	47870419	1
Eimermacher	Base cream DAC	47880419	3
Eimermacher	Base cream DAC	502110015	1
Eimermacher	Base cream DAC	50211015	1
Eimermacher	Base cream DAC	50221015	1
Eimermacher	Base cream DAC	52830317	1
Eimermacher	Base cream DAC	55770320	1
Eimermacher	Base cream DAC	57080315	1
Eimermacher	Base cream DAC	57090315	2
Eimermacher	Base cream DAC	58641021	2
Eimermacher	Base cream DAC	60640519	1
Eimermacher	Base cream DAC	61371217	4
Eimermacher	Base cream DAC	61381217	1
Eimermacher	Base cream DAC	62550918	1
Eimermacher	Base cream DAC	70570420	7
EIMERMACHER	Base cream DAC	71940619	1
Eimermacher	Base cream DAC	71940819	1
Eimermacher	Base cream DAC	72240417	11
Eimermacher	Base cream DAC	74420221	2
Eimermacher	Base cream DAC	76561018	1
Eimermacher	Base cream DAC	79000916	4
Eimermacher	Base cream DAC	80410719	3
Eimermacher	Base cream DAC	80600520	1
Eimermacher	Base cream DAC	86440517	1
Eimermacher	Base cream DAC	87231118	1
Eimermacher	Base cream DAC	8811114	1
Eimermacher	Base cream DAC	97870214	2
EimermacherGmbH-Geschen...	Base cream DAC	14150817-20180404Ma9	1
Eimmermacher	Base cream DAC	6681116	1
Engel apotheke	Base cream DAC	2119Q-07011	1
Engel-Apotheke	Base cream DAC	2119I-07011	1
Engel-Apotheke	Base cream DAC	2219Q-07011	1
Ensboa	Base cream DAC	2020216	1
Ensboa	Base cream DAC	63340317	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ensboa	Base cream DAC	64570816	2
Ensboa	Base cream DAC	6681116	1
Ensbona / Eimermacher, ...	Base cream DAC	13161119	1
Ensbona / Eimermacher, ...	Base cream DAC	15670621	1
Ensbona / Eimermacher, ...	Base cream DAC	40160120	6
Ensbona / Eimermacher, ...	Base cream DAC	60630519	3
Ensbona / Eimermacher	Base cream DAC	80340218	2
Ensbona / Ferd. Eimerma...	Base cream DAC	55350716	5
Ensbona / Ferdinand Eim...	Base cream DAC	15670621	4
Ensbona / Ferdinand Eim...	Base cream DAC	3311218	3
Ensbona / Ferdinand Eim...	Base cream DAC	4271019	3
Ensbona / Ferdinand Eim...	Base cream DAC	48560921	1
Ensbona / Ferdinand Eim...	Base cream DAC	61361217	1
Ensbona / Ferdinand Eim...	Base cream DAC	80600520	3
Ensbona / Jenne	Base cream DAC	13161119	1
Ensbona / Phönix	Base cream DAC	47880419	3
Ensbona / Phönix	Base cream DAC	804000719	1
Ensbona / Phönix	Base cream DAC	80400719	2
Ensbona /	Base cream DAC	15730518	1
Ensbona /	Base cream DAC	23790219	1
Ensbona /	Base cream DAC	47880419	1
Ensbona /	Base cream DAC	80400719	1
Ensbona Phoenix	Base cream DAC	74420221	4
Ensbona/ Eimermacher	Base cream DAC	70570420	1
Ensbona/ Gehe	Base cream DAC	13161119	2
Ensbona/ Gehe	Base cream DAC	15660621	2
Ensbona/ Gehe	Base cream DAC	40150120	1
Ensbona/ Gehe	Base cream DAC	70570420	1
Ensbona/ Gehe	Base cream DAC	74420221	2
Ensbona/ Gehe	Base cream DAC	80400719	1
Ensbona/ Gehe	Base cream DAC	80600520	1
Ensbona/ Noweda	Base cream DAC	39590217	1
Ensbona/ Sanacorp	Base cream DAC		2
Ensbona/ Sanacorp	Base cream DAC	1200216	3
Ensbona/ Sanacorp	Base cream DAC	50211015	1
Ensbona/4	Base cream DAC	72240417	1
Ensbona/Alliance	Base cream DAC	8630717	1
Ensbona/Anzag	Base cream DAC	13161119	2
Ensbona/Anzag	Base cream DAC	44960616	1
Ensbona/Anzag	Base cream DAC	50211015	4
Ensbona/Anzag	Base cream DAC	80400719	3
Ensbona/E&J	Base cream DAC	14150817	2
Ensbona/E&J	Base cream DAC	15730518	1
Ensbona/E&J	Base cream DAC	39590217	1
Ensbona/E&J	Base cream DAC	72240417	3
Ensbona/E&J	Base cream DAC	95980718	1
Ensbona/Eimermacher	Base cream DAC	14110817	1
Ensbona/Eimermacher	Base cream DAC	14120715	1
Ensbona/Eimermacher	Base cream DAC	14130715	1
Ensbona/Eimermacher	Base cream DAC	29220416	1
Ensbona/Eimermacher	Base cream DAC	29230416	1
Ensbona/Eimermacher	Base cream DAC	40150120	1
Ensbona/Eimermacher	Base cream DAC	45150616	1
Ensbona/Eimermacher	Base cream DAC	61361217	1
ensbona/Eimermacher	Base cream DAC	68931121	1
ensbona/Eimermacher	Base cream DAC	70570420	4
Ensbona/Eimermacher	Base cream DAC	71940619	1
ENSBONA/Eimermacher	Base cream DAC	79000916	2
Ensbona/Gehe	Base cream DAC	14150817	2
Ensbona/gehe	Base cream DAC	33012178	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ensbona/gehe	Base cream DAC	35600319	1
Ensbona/Gehe	Base cream DAC	39590217	3
Ensbona/Gehe	Base cream DAC	4271019	1
Ensbona/Gehe	Base cream DAC	44960616	1
Ensbona/Gehe	Base cream DAC	633350317	1
Ensbona/Gehe	Base cream DAC	63350317	1
Ensbona/Gehe	Base cream DAC	7580418	1
Ensbona/Gehe	Base cream DAC	80400719	1
Ensbona/Gehe	Base cream DAC	80600520	1
Ensbona/Gehe	Base cream DAC	87231118	1
Ensbona/Gehe	Base cream DAC	95980718	1
Ensbona/Krieger	Base cream DAC	36510319	2
Ensbona/Krieger	Base cream DAC	60630519	1
Ensbona/Nordwalde	Base cream DAC	47870419	3
Ensbona/Nordwalde	Base cream DAC	63350317	1
Ensbona/Noweda	Base cream DAC	13161119	1
ensbona/Noweda	Base cream DAC	14120715	1
Ensbona/Noweda	Base cream DAC	14150817	1
Ensbona/Noweda	Base cream DAC	19440920	2
Ensbona/Noweda	Base cream DAC	36510319	1
Ensbona/Noweda	Base cream DAC	40150120	1
Ensbona/Noweda	Base cream DAC	44960616	1
Ensbona/Noweda	Base cream DAC	70570420	12
Ensbona/Noweda	Base cream DAC	71940619	2
Ensbona/Noweda	Base cream DAC	71950619	3
Ensbona/Noweda	Base cream DAC	74420221	4
Ensbona/Noweda	Base cream DAC	80400719	5
Ensbona/Noweda	Base cream DAC	80600520	7
Ensbona/Phönix	Base cream DAC	36510319	2
Ensbona/Phönix	Base cream DAC	4271019	3
Ensbona/phönix	Base cream DAC	50211015	1
Ensbona/Phönix	Base cream DAC	60630519	1
Ensbona/Phönix	Base cream DAC	70570420	1
Ensbona/phönix	Base cream DAC	72240417	1
Ensbona/Röntgen	Base cream DAC	60630519	1
Ensbona/Sanacorp	Base cream DAC	22251214	2
Ensbona/Sanacorp	Base cream DAC	29220416	1
Ensbona/Sanacorp	Base cream DAC	39590217	1
Ensbona/Sanacorp	Base cream DAC	57090315	3
Ensbona/Sanacorp	Base cream DAC	63350317	1
Ensbona/Sanacorp	Base cream DAC	71940619	3
Ensbona/Sanacorp	Base cream DAC	72240417	2
Ensbona/Sanacorp	Base cream DAC	87231118	1
Ensbona	Base cream DAC	1111	1
Ensbona	Base cream DAC	1200216	3
Ensbona	Base cream DAC	13510119	1
Ensbona	Base cream DAC	13520119	3
Ensbona	Base cream DAC	14110817	6
Ensbona	Base cream DAC	14120715	2
Ensbona	Base cream DAC	14130715	1
Ensbona	Base cream DAC	14130817	1
Ensbona	Base cream DAC	15660621	2
Ensbona	Base cream DAC	15670621	5
Ensbona	Base cream DAC	15730518	3
Ensbona	Base cream DAC	20001581	1
Ensbona	Base cream DAC	20003544	1
Ensbona	Base cream DAC	2020216	2
ENSBONA	Base cream DAC	2020216	1
ENSBONA	Base cream DAC	22251214	1
Ensbona	Base cream DAC	23780219	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ensbona	Base cream DAC	29220416	1
ENSBONA	Base cream DAC	29580618	1
Ensbona	Base cream DAC	3301218	1
ensbona	Base cream DAC	3370720	1
Ensbona	Base cream DAC	3370720	1
Ensbona	Base cream DAC	3371116	1
Ensbona	Base cream DAC	36510319	5
Ensbona	Base cream DAC	39590217	2
Ensbona	Base cream DAC	4271019	1
Ensbona	Base cream DAC	47870419	1
Ensbona	Base cream DAC	47880419	3
Ensbona	Base cream DAC	48520921	3
Ensbona	Base cream DAC	48560921	5
Ensbona	Base cream DAC	52830317	9
Ensbona	Base cream DAC	55350716	15
Ensbona	Base cream DAC	57090315	4
Ensbona	Base cream DAC	58641021	2
Ensbona	Base cream DAC	58691021	2
Ensbona	Base cream DAC	61381217	2
Ensbona	Base cream DAC	62550918	1
Ensbona	Base cream DAC	63350317	4
ENSBONA	Base cream DAC	63350317	1
Ensbona	Base cream DAC	6671116	3
Ensbona	Base cream DAC	70570420	1
Ensbona	Base cream DAC	71940619	2
Ensbona	Base cream DAC	71950619	1
Ensbona	Base cream DAC	72250417	2
ensbona	Base cream DAC	74000513	1
Ensbona	Base cream DAC	74420221	4
Ensbona	Base cream DAC	7580418	2
Ensbona	Base cream DAC	76561018	2
ensbona	Base cream DAC	79000916	1
Ensbona	Base cream DAC	79000916	8
Ensbona	Base cream DAC	80340218	4
Ensbona	Base cream DAC	80600520	1
Ensbona	Base cream DAC	86440517	2
Ensbona	Base cream DAC	87231118	6
Ensbona	Base cream DAC	8811114	1
Ensbona	Base cream DAC	93780318	1
Ensbona	Base cream DAC	95980718	3
Ensbona	Base cream DAC	98480713	1
EnsbonaIPhoenix	Base cream DAC	48560921	1
EnsbonaIPhoenix	Base cream DAC	68931121	1
EnsbonaIPhoenix	Base cream DAC	70570420	2
EnsbonaIPhoenix	Base cream DAC	71950619	1
EnsbonaNoweda	Base cream DAC	72240417	1
Enzbona/Eimermacher	Base cream DAC	14120715	2
Enzbona/Eimermacher	Base cream DAC	29220416	1
E-plus	Base cream DAC	308799	1
Esbona/Alliance	Base cream DAC	10067198	1
Eur	Base cream DAC	1407022-01	1
EuRh	Base cream DAC	19001	2
EuRho / 2	Base cream DAC	40170120	3
EuRho / 2	Base cream DAC	80390719	1
EuRho / Gehe	Base cream DAC	68941121	1
EuRho / GEHE	Base cream DAC	80390719	1
EuRho / Phoenix	Base cream DAC	14140817	1
EuRho / Phoenix	Base cream DAC	1506046-01	1
EuRho / Phoenix	Base cream DAC	15720518	1
EuRho / Phoenix	Base cream DAC	27350917	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
EuRho / Phoenix	Base cream DAC	29550618	1
EuRho / Phoenix	Base cream DAC	55360616	1
EuRho / Phoenix	Base cream DAC	76571018	1
EuRho / Phoenix	Base cream DAC	86470517	1
EuRho Anzag ek:33,16 03...	Base cream DAC	1111027-01	1
EuRho/ AHD	Base cream DAC	18081702	1
EuRho/ Ebert	Base cream DAC	1401026-01	1
EuRho/ Noweda 29.10.18	Base cream DAC	45940718	2
EuRho/Anzag	Base cream DAC	98(18081602)	1
EuRho/Gehe	Base cream DAC	13151119	2
EuRho/Gehe	Base cream DAC	3380720	1
EuRho/Gehe	Base cream DAC	35401020	3
EuRho/Gehe	Base cream DAC	40170120	2
EuRho/Gehe	Base cream DAC	48550921	2
EuRho/Gehe	Base cream DAC	71980619	1
EuRho/Gehe	Base cream DAC	92080819	1
EuRho/Gehe16.03.2022	Base cream DAC	58651021	1
Eurho/Noweda	Base cream DAC	1508001-01	1
EuRho/Noweda	Base cream DAC	15620621	1
EuRho/Noweda	Base cream DAC	19400920	1
EuRho/Noweda	Base cream DAC	19420920	3
EuRho/Noweda	Base cream DAC	29550618	1
EuRho/Noweda	Base cream DAC	35401020	1
EuRho/Noweda	Base cream DAC	51580217	2
EuRho/Nowedw 22.03.2021	Base cream DAC	70560420	1
EuRho/Phoenix	Base cream DAC	1311031-01	1
EuRho/Phoenix	Base cream DAC	1346019	1
Eurho/Phoenix	Base cream DAC	13C05-T03-001756	1
EuRho/Phoenix	Base cream DAC	74410221	1
EuRho/Phönix	Base cream DAC	1312002-01	1
EuRho/Phönix	Base cream DAC	1312037-01	1
EuRho/Phönix	Base cream DAC	1502017-01	1
EuRho	Base cream DAC	1108002-01	1
EuRho	Base cream DAC	1111048-01	1
EuRho	Base cream DAC	1111050-01	1
EuRho	Base cream DAC	1204022-01	1
EuRho	Base cream DAC	1209037-01	1
EuRho	Base cream DAC	1210011-01	2
EuRho	Base cream DAC	1301023-01	1
EuRho	Base cream DAC	1302009-01	1
EuRho	Base cream DAC	1302036-01	1
EuRho	Base cream DAC	130400501	1
EuRho	Base cream DAC	13K29-B32-288245	1
EuRho	Base cream DAC	1401026-01	2
EuRho	Base cream DAC	14140817	1
EuRho	Base cream DAC	1501050-01	1
EuRho	Base cream DAC	1502008-01	1
EuRho	Base cream DAC	1502029-01	2
EuRho	Base cream DAC	1508001-01	1
EuRho	Base cream DAC	1511002-01	3
EuRho	Base cream DAC	1603028-01	1
EuRho	Base cream DAC	1606028-01	1
EuRho	Base cream DAC	27320917	1
EuRho	Base cream DAC	27350917	1
EuRho	Base cream DAC	2981016	2
EuRho	Base cream DAC	3001016	1
EuRho	Base cream DAC	3570117	1
Eurho	Base cream DAC	38540516	1
EuRho	Base cream DAC	39570117	1
EuRho	Base cream DAC	44950616	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
EuRho	Base cream DAC	45340616	1
EuRho	Base cream DAC	51580217	1
EuRho	Base cream DAC	55360616	1
EuRho	Base cream DAC	60620519	1
EuRho	Base cream DAC	68941121	1
EuRho	Base cream DAC	69530118	1
EuRho	Base cream DAC	70540420	1
EuRho	Base cream DAC	72440816	1
EuRho	Base cream DAC	80300218	1
EuRho	Base cream DAC	80580520	1
EuRho	Base cream DAC	86450517	1
Eurho	Base cream DAC	93750318	3
EuRhoNoweda 11.3..17	Base cream DAC	91350916	2
EuRhoNoweda28.06.2017	Base cream DAC	39620117	2
Eurho-Pharma	Base cream DAC	45940718	1
Euro OCT	Base cream DAC	1210055-01	1
Euro OCT	Base cream DAC	1307047-01	1
Euro OTC	Base cream DAC		1
Euro OTC	Base cream DAC	11033-01	1
Euro OTC	Base cream DAC	1107040-01	1
Euro OTC	Base cream DAC	1110037-01	2
Euro OTC	Base cream DAC	11110023-01	1
Euro OTC	Base cream DAC	1111009-01	1
Euro OTC	Base cream DAC	1111028-01	1
Euro OTC	Base cream DAC	1111041-01	1
Euro OTC	Base cream DAC	1111042-01	1
Euro OTC	Base cream DAC	1111051-01	2
Euro OTC	Base cream DAC	11811116	6
Euro OTC	Base cream DAC	11821116	8
Euro OTC	Base cream DAC	11831116	3
Euro OTC	Base cream DAC	11841116	7
Euro OTC	Base cream DAC	118471116	1
Euro OTC	Base cream DAC	1204004-01	3
Euro OTC	Base cream DAC	1204023-01	1
Euro OTC	Base cream DAC	1204024-01	1
Euro OTC	Base cream DAC	1204025-01	2
Euro OTC	Base cream DAC	1205004-01	1
Euro OTC	Base cream DAC	1205018-01	3
Euro OTC	Base cream DAC	1205019-01	1
Euro OTC	Base cream DAC	1205040-01	1
Euro OTC	Base cream DAC	1205041-01	1
Euro OTC	Base cream DAC	1205044-01	2
Euro OTC	Base cream DAC	120903701	1
Euro OTC	Base cream DAC	1209037-01	4
Euro OTC	Base cream DAC	1209038-01	2
Euro OTC	Base cream DAC	1209039-01	1
Euro OTC	Base cream DAC	1210011-01	3
Euro OTC	Base cream DAC	1210044-01	4
Euro OTC	Base cream DAC	1210053-01	1
Euro OTC	Base cream DAC	121005401	1
Euro OTC	Base cream DAC	1210054-01	1
Euro OTC	Base cream DAC	1210055-01	3
Euro OTC	Base cream DAC	1212025-01	1
Euro OTC	Base cream DAC	1212027-01	1
Euro OTC	Base cream DAC	121202801	1
Euro OTC	Base cream DAC	1212028-01	2
Euro OTC	Base cream DAC	121209-01	1
Euro OTC	Base cream DAC	12339301	1
Euro OTC	Base cream DAC	129037-01	1
Euro OTC	Base cream DAC	1301022-01	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Base cream DAC	130102301	1
Euro OTC	Base cream DAC	1301023-01	8
Euro OTC	Base cream DAC	1301040-01	1
Euro OTC	Base cream DAC	1301042-01	1
Euro OTC	Base cream DAC	1301043-01	1
Euro OTC	Base cream DAC	1301044-01	1
Euro OTC	Base cream DAC	130201001	1
Euro OTC	Base cream DAC	1302036-01	1
Euro OTC	Base cream DAC	1302037-01	1
Euro OTC	Base cream DAC	1304004-01	1
Euro OTC	Base cream DAC	1304005-01	2
Euro OTC	Base cream DAC	1304006-01	5
Euro OTC	Base cream DAC	1305012-01	1
Euro OTC	Base cream DAC	1305013-01	1
Euro OTC	Base cream DAC	1306001-01	6
Euro OTC	Base cream DAC	1306002-01	1
Euro OTC	Base cream DAC	1306007-01	1
Euro OTC	Base cream DAC	1306009-01	2
Euro OTC	Base cream DAC	1306019-01	1
Euro OTC	Base cream DAC	1306020-01	6
Euro OTC	Base cream DAC	130603001	1
Euro OTC	Base cream DAC	1306030-01	1
Euro OTC	Base cream DAC	1306031-01	1
Euro OTC	Base cream DAC	1306042-01	1
Euro OTC	Base cream DAC	1306044-01	2
Euro OTC	Base cream DAC	1307003-01	2
Euro OTC	Base cream DAC	130703101	1
Euro OTC	Base cream DAC	1307031-01	3
Euro OTC	Base cream DAC	1307034-01	2
Euro OTC	Base cream DAC	1307035-01	1
Euro OTC	Base cream DAC	130703601	2
Euro OTC	Base cream DAC	1307044-01	3
Euro OTC	Base cream DAC	1307045-01	1
Euro OTC	Base cream DAC	1307046-01	1
Euro OTC	Base cream DAC	130704701	2
Euro OTC	Base cream DAC	1307047-01	1
Euro OTC	Base cream DAC	130704801	1
Euro OTC	Base cream DAC	1308010-01	1
Euro OTC	Base cream DAC	1308011-01	1
Euro OTC	Base cream DAC	1308013-01	4
Euro OTC	Base cream DAC	1308021-01	3
Euro OTC	Base cream DAC	1308022-01	6
Euro OTC	Base cream DAC	13080224-01	1
Euro OTC	Base cream DAC	1308023-01	3
Euro OTC	Base cream DAC	1308024-01	8
Euro OTC	Base cream DAC	1309005-01	3
Euro OTC	Base cream DAC	1309006-01	1
Euro OTC	Base cream DAC	1309007-01	8
Euro OTC	Base cream DAC	1309008-01	1
Euro OTC	Base cream DAC	1309013-01	7
Euro OTC	Base cream DAC	1309015-01	3
Euro OTC	Base cream DAC	131007-01	1
Euro OTC	Base cream DAC	1311004-01	2
Euro OTC	Base cream DAC	1311005-01	5
Euro OTC	Base cream DAC	1311007-01	3
Euro OTC	Base cream DAC	131100801	1
Euro OTC	Base cream DAC	1311008-01	2
Euro OTC	Base cream DAC	131100901	1
Euro OTC	Base cream DAC	1311009-01	1
Euro OTC	Base cream DAC	131101601	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Base cream DAC	1311018-01	1
Euro OTC	Base cream DAC	131103101	1
Euro OTC	Base cream DAC	1311031-01	1
Euro OTC	Base cream DAC	13111004-01	1
Euro OTC	Base cream DAC	13113101	1
Euro OTC	Base cream DAC	131200101	1
Euro OTC	Base cream DAC	1312001-01	2
Euro OTC	Base cream DAC	1312003-01	1
Euro OTC	Base cream DAC	1312004-01	1
Euro OTC	Base cream DAC	1312020-01	1
Euro OTC	Base cream DAC	1312021-01	1
Euro OTC	Base cream DAC	1312035-01	6
Euro OTC	Base cream DAC	1312036-01	1
Euro OTC	Base cream DAC	131203701	1
Euro OTC	Base cream DAC	1312037-01	1
Euro OTC	Base cream DAC	1312038-01	6
Euro OTC	Base cream DAC	1312039-01	6
Euro OTC	Base cream DAC	13131119	3
Euro OTC	Base cream DAC	13141119	4
Euro OTC	Base cream DAC	13151119	8
Euro OTC	Base cream DAC	13171119	9
Euro OTC	Base cream DAC	13190119	1
Euro OTC	Base cream DAC	13201101	1
Euro OTC	Base cream DAC	13312201	1
Euro OTC	Base cream DAC	13460119	4
Euro OTC	Base cream DAC	13470119	6
Euro OTC	Base cream DAC	13480119	8
Euro OTC	Base cream DAC	13490119	32
Euro OTC	Base cream DAC	13500119	6
Euro OTC	Base cream DAC	135151119	1
Euro OTC	Base cream DAC	140102001	1
Euro OTC	Base cream DAC	1401020-01	4
Euro OTC	Base cream DAC	1401021-01	1
Euro OTC	Base cream DAC	1401022-01	5
Euro OTC	Base cream DAC	1401023-01	6
Euro OTC	Base cream DAC	1401024-01	6
Euro OTC	Base cream DAC	1401025-01	8
Euro OTC	Base cream DAC	140102601	1
Euro OTC	Base cream DAC	1401026-01	3
Euro OTC	Base cream DAC	1407018-01	7
Euro OTC	Base cream DAC	1407019-01	2
Euro OTC	Base cream DAC	1407020-01	1
Euro OTC	Base cream DAC	1407021-01	1
Euro OTC	Base cream DAC	140702201	1
Euro OTC	Base cream DAC	1407022-01	2
Euro OTC	Base cream DAC	1407023-01	1
Euro OTC	Base cream DAC	1407054-01	3
Euro OTC	Base cream DAC	140705501	1
Euro OTC	Base cream DAC	1407055-01	2
Euro OTC	Base cream DAC	1409056-01	1
Euro OTC	Base cream DAC	14090801	1
Euro OTC	Base cream DAC	1410817	1
Euro OTC	Base cream DAC	1411031-01	1
Euro OTC	Base cream DAC	1412002-01	4
Euro OTC	Base cream DAC	14140817	19
Euro OTC	Base cream DAC	14140871	1
Euro OTC	Base cream DAC	14223101	1
Euro OTC	Base cream DAC	14232001	1
Euro OTC	Base cream DAC	1501007-01	1
Euro OTC	Base cream DAC	150100801	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Base cream DAC	1501008-01	1
Euro OTC	Base cream DAC	1501009-01	1
Euro OTC	Base cream DAC	1501019-01	1
Euro OTC	Base cream DAC	1501020-01	1
Euro OTC	Base cream DAC	1501040-01	1
Euro OTC	Base cream DAC	1501050-01	3
Euro OTC	Base cream DAC	1501051-01	4
Euro OTC	Base cream DAC	1501052-01	1
Euro OTC	Base cream DAC	1501053-01	2
Euro OTC	Base cream DAC	1501054-01	1
Euro OTC	Base cream DAC	1501055-01	1
Euro OTC	Base cream DAC	150150-01	1
Euro OTC	Base cream DAC	150200701	1
Euro OTC	Base cream DAC	1502007-01	5
Euro OTC	Base cream DAC	150200801	1
Euro OTC	Base cream DAC	1502008-01	7
Euro OTC	Base cream DAC	1502015-01	5
Euro OTC	Base cream DAC	1502016	1
Euro OTC	Base cream DAC	1502016-01	4
Euro OTC	Base cream DAC	1502017-01	7
Euro OTC	Base cream DAC	1502025-01	1
Euro OTC	Base cream DAC	150202601	1
Euro OTC	Base cream DAC	1502026-01	6
Euro OTC	Base cream DAC	1502027-01	8
Euro OTC	Base cream DAC	1502028	1
Euro OTC	Base cream DAC	1502028-01	4
Euro OTC	Base cream DAC	1502029-01	2
Euro OTC	Base cream DAC	150215-01	1
Euro OTC	Base cream DAC	1506026-01	1
Euro OTC	Base cream DAC	1506026-011	1
Euro OTC	Base cream DAC	1506028-01	3
Euro OTC	Base cream DAC	1506045-01	9
Euro OTC	Base cream DAC	150604601	1
Euro OTC	Base cream DAC	1506046-01	4
Euro OTC	Base cream DAC	15060-46-01	1
Euro OTC	Base cream DAC	1506047-01	4
Euro OTC	Base cream DAC	1506053	1
Euro OTC	Base cream DAC	1506053-01	14
Euro OTC	Base cream DAC	1507017_01	1
Euro OTC	Base cream DAC	1507017-01	9
Euro OTC	Base cream DAC	1507018-01	2
Euro OTC	Base cream DAC	1508001-01	12
Euro OTC	Base cream DAC	1509021-01	16
Euro OTC	Base cream DAC	1509021-21	1
Euro OTC	Base cream DAC	1509025-01	1
Euro OTC	Base cream DAC	1509026-01	2
Euro OTC	Base cream DAC	1509028-01	1
Euro OTC	Base cream DAC	1510027-01	1
Euro OTC	Base cream DAC	151003001	1
Euro OTC	Base cream DAC	1510030-01	15
Euro OTC	Base cream DAC	1511001-01	7
Euro OTC	Base cream DAC	15110011-01	1
Euro OTC	Base cream DAC	151100201	1
Euro OTC	Base cream DAC	1511002-01	16
Euro OTC	Base cream DAC	1511002-02	2
Euro OTC	Base cream DAC	151200201	1
Euro OTC	Base cream DAC	1512002-01	10
Euro OTC	Base cream DAC	1512013-01	1
Euro OTC	Base cream DAC	1520202801	1
Euro OTC	Base cream DAC	15420101	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Base cream DAC	15502028-01	1
Euro OTC	Base cream DAC	1560621	1
Euro OTC	Base cream DAC	15620621	4
Euro OTC	Base cream DAC	15630621	12
Euro OTC	Base cream DAC	15640621	2
Euro OTC	Base cream DAC	15650621	1
Euro OTC	Base cream DAC	15690518	11
Euro OTC	Base cream DAC	15700518	6
Euro OTC	Base cream DAC	15710518	1
Euro OTC	Base cream DAC	15720518	28
Euro OTC	Base cream DAC	15728518	1
Euro OTC	Base cream DAC	15900322	1
Euro OTC	Base cream DAC	1601025-01	1
Euro OTC	Base cream DAC	1601027-01	2
Euro OTC	Base cream DAC	1601028-01	3
Euro OTC	Base cream DAC	1601030-01	1
Euro OTC	Base cream DAC	1601055-01	2
Euro OTC	Base cream DAC	160123-01	1
Euro OTC	Base cream DAC	1603015-01	4
Euro OTC	Base cream DAC	160301601	1
Euro OTC	Base cream DAC	1603016-01	6
Euro OTC	Base cream DAC	160302801	1
Euro OTC	Base cream DAC	1603028-01	10
Euro OTC	Base cream DAC	1603029-01	8
Euro OTC	Base cream DAC	1603030-01	1
Euro OTC	Base cream DAC	1603037-01	2
Euro OTC	Base cream DAC	1603038-01	2
Euro OTC	Base cream DAC	1603039-01	1
Euro OTC	Base cream DAC	1604023-01	1
Euro OTC	Base cream DAC	1604040-01	2
Euro OTC	Base cream DAC	160404101	1
Euro OTC	Base cream DAC	1604042-01	3
Euro OTC	Base cream DAC	1605014-01	2
Euro OTC	Base cream DAC	16249801	2
Euro OTC	Base cream DAC	16721117	1
Euro OTC	Base cream DAC	16B15-T04-030281	1
Euro OTC	Base cream DAC	16Do6-T10-031949	1
Euro OTC	Base cream DAC	16G20-T06-035312	1
Euro OTC	Base cream DAC	17006701	1
Euro OTC	Base cream DAC	17023401	1
Euro OTC	Base cream DAC	17031701	2
Euro OTC	Base cream DAC	170318181	2
Euro OTC	Base cream DAC	17267401	1
Euro OTC	Base cream DAC	17A03-T08-040047	1
Euro OTC	Base cream DAC	180208BC/86498517	1
Euro OTC	Base cream DAC	181113081	1
Euro OTC	Base cream DAC	18137201	1
Euro OTC	Base cream DAC	18138001	1
Euro OTC	Base cream DAC	18138101	2
Euro OTC	Base cream DAC	18166602	1
Euro OTC	Base cream DAC	18232601	1
Euro OTC	Base cream DAC	18270001	1
Euro OTC	Base cream DAC	18720518	1
Euro OTC	Base cream DAC	19000942	1
Euro OTC	Base cream DAC	19005671	1
Euro OTC	Base cream DAC	19020201	2
Euro OTC	Base cream DAC	19400920	5
Euro OTC	Base cream DAC	19410920	2
Euro OTC	Base cream DAC	19420920	5
Euro OTC	Base cream DAC	20002397	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Base cream DAC	20291016	1
Euro OTC	Base cream DAC	2308178	1
Euro OTC	Base cream DAC	238002019	1
Euro OTC	Base cream DAC	23800219	16
Euro OTC	Base cream DAC	23810219	4
Euro OTC	Base cream DAC	23820219	3
Euro OTC	Base cream DAC	23830219	1
Euro OTC	Base cream DAC	23840219	6
Euro OTC	Base cream DAC	255700618	1
Euro OTC	Base cream DAC	27290917	3
Euro OTC	Base cream DAC	27300917	10
Euro OTC	Base cream DAC	27310917	1
Euro OTC	Base cream DAC	27320917	8
Euro OTC	Base cream DAC	27320919	1
Euro OTC	Base cream DAC	27340917	14
Euro OTC	Base cream DAC	27346917	1
Euro OTC	Base cream DAC	27350917	23
Euro OTC	Base cream DAC	29550618	25
Euro OTC	Base cream DAC	29550619	1
Euro OTC	Base cream DAC	29560618	3
Euro OTC	Base cream DAC	29570618	5
Euro OTC	Base cream DAC	2957068	1
Euro OTC	Base cream DAC	2981016	19
Euro OTC	Base cream DAC	298116	1
Euro OTC	Base cream DAC	29860117	5
Euro OTC	Base cream DAC	29870117	4
Euro OTC	Base cream DAC	29880117	2
Euro OTC	Base cream DAC	2991016	26
Euro OTC	Base cream DAC	29910169	1
Euro OTC	Base cream DAC	3001016	16
Euro OTC	Base cream DAC	300116	1
Euro OTC	Base cream DAC	3011016	17
Euro OTC	Base cream DAC	305711	1
Euro OTC	Base cream DAC	3271218	5
Euro OTC	Base cream DAC	32811218	1
Euro OTC	Base cream DAC	3281218	14
Euro OTC	Base cream DAC	3291218	6
Euro OTC	Base cream DAC	3360720	4
Euro OTC	Base cream DAC	3380720	10
Euro OTC	Base cream DAC	33807720	1
Euro OTC	Base cream DAC	3390720	1
Euro OTC	Base cream DAC	35391020	8
Euro OTC	Base cream DAC	35401020	24
Euro OTC	Base cream DAC	35411020	7
Euro OTC	Base cream DAC	35421020	4
Euro OTC	Base cream DAC	35840516	1
Euro OTC	Base cream DAC	35980217	1
Euro OTC	Base cream DAC	3601016	1
Euro OTC	Base cream DAC	36520319	6
Euro OTC	Base cream DAC	36530319	8
Euro OTC	Base cream DAC	36540319	6
Euro OTC	Base cream DAC	3661016	1
Euro OTC	Base cream DAC	36920117	1
Euro OTC	Base cream DAC	3695474	1
Euro OTC	Base cream DAC	38540516	13
Euro OTC	Base cream DAC	3854056	1
Euro OTC	Base cream DAC	39210516	1
Euro OTC	Base cream DAC	39218516	1
Euro OTC	Base cream DAC	3931218	1
Euro OTC	Base cream DAC	39570117	13

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Base cream DAC	39570177	1
Euro OTC	Base cream DAC	395802017	1
Euro OTC	Base cream DAC	39580217	6
Euro OTC	Base cream DAC	39600117	1
Euro OTC	Base cream DAC	39620117	4
Euro OTC	Base cream DAC	39630217	19
Euro OTC	Base cream DAC	40130120	10
Euro OTC	Base cream DAC	40170120	10
Euro OTC	Base cream DAC	40180120	1
Euro OTC	Base cream DAC	4210919	3
Euro OTC	Base cream DAC	421919	1
Euro OTC	Base cream DAC	4230919	6
Euro OTC	Base cream DAC	4240919	43
Euro OTC	Base cream DAC	4251019	10
Euro OTC	Base cream DAC	44731117	1
Euro OTC	Base cream DAC	44950616	19
Euro OTC	Base cream DAC	44960616	2
Euro OTC	Base cream DAC	450380616	1
Euro OTC	Base cream DAC	45330616	18
Euro OTC	Base cream DAC	45340616	11
Euro OTC	Base cream DAC	45380616	21
Euro OTC	Base cream DAC	4570718	1
Euro OTC	Base cream DAC	45940718	2
Euro OTC	Base cream DAC	45950718	10
Euro OTC	Base cream DAC	45960718	4
Euro OTC	Base cream DAC	45970718	35
Euro OTC	Base cream DAC	46701117	4
Euro OTC	Base cream DAC	46711117	3
Euro OTC	Base cream DAC	4671117	1
Euro OTC	Base cream DAC	46721117	2
Euro OTC	Base cream DAC	467311117	1
Euro OTC	Base cream DAC	46731117	9
Euro OTC	Base cream DAC	47890419	21
Euro OTC	Base cream DAC	478904719	1
Euro OTC	Base cream DAC	47898419	2
Euro OTC	Base cream DAC	47900419	1
Euro OTC	Base cream DAC	47908419	1
Euro OTC	Base cream DAC	47910419	3
Euro OTC	Base cream DAC	47920419	6
Euro OTC	Base cream DAC	47930419	5
Euro OTC	Base cream DAC	4850921	1
Euro OTC	Base cream DAC	48530921	2
Euro OTC	Base cream DAC	48540921	1
Euro OTC	Base cream DAC	48550921	6
Euro OTC	Base cream DAC	485510921	1
Euro OTC	Base cream DAC	49650616	2
Euro OTC	Base cream DAC	49660616	2
Euro OTC	Base cream DAC	51560217	4
Euro OTC	Base cream DAC	51570217	9
Euro OTC	Base cream DAC	51580217	30
Euro OTC	Base cream DAC	515880217	1
Euro OTC	Base cream DAC	51850217	1
Euro OTC	Base cream DAC	524490616	1
Euro OTC	Base cream DAC	52490616	6
Euro OTC	Base cream DAC	52500616	1
Euro OTC	Base cream DAC	553600616	2
Euro OTC	Base cream DAC	55360616	12
Euro OTC	Base cream DAC	55740320	11
Euro OTC	Base cream DAC	55740320P-200720-3	1
Euro OTC	Base cream DAC	55750320	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Base cream DAC	55760320	3
Euro OTC	Base cream DAC	55790320	8
Euro OTC	Base cream DAC	55840317	3
Euro OTC	Base cream DAC	55850317	2
Euro OTC	Base cream DAC	5650900	1
Euro OTC	Base cream DAC	58651021	8
Euro OTC	Base cream DAC	58661021	6
Euro OTC	Base cream DAC	58671021	3
Euro OTC	Base cream DAC	58681021	3
Euro OTC	Base cream DAC	6004859004	1
Euro OTC	Base cream DAC	6004860001	1
Euro OTC	Base cream DAC	60590519	2
Euro OTC	Base cream DAC	60600519	3
Euro OTC	Base cream DAC	60610519	26
Euro OTC	Base cream DAC	60620519	26
Euro OTC	Base cream DAC	606220519	1
Euro OTC	Base cream DAC	61391217	7
Euro OTC	Base cream DAC	62530918	18
Euro OTC	Base cream DAC	62540918	3
Euro OTC	Base cream DAC	62560918	29
Euro OTC	Base cream DAC	62568918	1
Euro OTC	Base cream DAC	62570918	2
Euro OTC	Base cream DAC	62991016	1
Euro OTC	Base cream DAC	6610519	1
Euro OTC	Base cream DAC	68921121	3
Euro OTC	Base cream DAC	68941121	3
Euro OTC	Base cream DAC	69500118	16
Euro OTC	Base cream DAC	69510118	9
Euro OTC	Base cream DAC	6951018	1
Euro OTC	Base cream DAC	69520118	12
Euro OTC	Base cream DAC	69530118	7
Euro OTC	Base cream DAC	701228	1
Euro OTC	Base cream DAC	70540420	10
Euro OTC	Base cream DAC	70560420	9
Euro OTC	Base cream DAC	70560426	1
Euro OTC	Base cream DAC	70580420	3
Euro OTC	Base cream DAC	71960619	2
Euro OTC	Base cream DAC	71970619	14
Euro OTC	Base cream DAC	71980619	17
Euro OTC	Base cream DAC	71990619	17
Euro OTC	Base cream DAC	72260417	2
Euro OTC	Base cream DAC	72270417	3
Euro OTC	Base cream DAC	72430816	2
Euro OTC	Base cream DAC	72440816	4
Euro OTC	Base cream DAC	74400221	2
Euro OTC	Base cream DAC	74410221	12
Euro OTC	Base cream DAC	7550418	19
Euro OTC	Base cream DAC	7560418	9
Euro OTC	Base cream DAC	7570418	7
Euro OTC	Base cream DAC	7578418	1
Euro OTC	Base cream DAC	76571018	27
Euro OTC	Base cream DAC	76581018	8
Euro OTC	Base cream DAC	76591018	10
Euro OTC	Base cream DAC	79000916	1
Euro OTC	Base cream DAC	79131121	1
Euro OTC	Base cream DAC	8003325004	1
Euro OTC	Base cream DAC	8004134007	1
Euro OTC	Base cream DAC	80300218	28
Euro OTC	Base cream DAC	80320218	4
Euro OTC	Base cream DAC	80330218	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Base cream DAC	80370719	2
Euro OTC	Base cream DAC	80380719	8
Euro OTC	Base cream DAC	80390719	24
Euro OTC	Base cream DAC	803907190	1
Euro OTC	Base cream DAC	80580520	7
Euro OTC	Base cream DAC	80610520	4
Euro OTC	Base cream DAC	80616-8	1
Euro OTC	Base cream DAC	80630520	3
Euro OTC	Base cream DAC	80640520	4
Euro OTC	Base cream DAC	80719	1
Euro OTC	Base cream DAC	8620717	26
Euro OTC	Base cream DAC	86450517	10
Euro OTC	Base cream DAC	86460517	2
Euro OTC	Base cream DAC	86470517	8
Euro OTC	Base cream DAC	86479517	1
Euro OTC	Base cream DAC	86480517	4
Euro OTC	Base cream DAC	86490517	12
Euro OTC	Base cream DAC	8660717	6
Euro OTC	Base cream DAC	87211118	6
Euro OTC	Base cream DAC	87221118	12
Euro OTC	Base cream DAC	8722118	1
Euro OTC	Base cream DAC	87241118	23
Euro OTC	Base cream DAC	87251118	10
Euro OTC	Base cream DAC	88600321	4
Euro OTC	Base cream DAC	8860231	1
Euro OTC	Base cream DAC	88610321	7
Euro OTC	Base cream DAC	88620321	9
Euro OTC	Base cream DAC	91310616	1
Euro OTC	Base cream DAC	91310916	4
Euro OTC	Base cream DAC	91320916	1
Euro OTC	Base cream DAC	91330916	2
Euro OTC	Base cream DAC	91340916	20
Euro OTC	Base cream DAC	91350916	4
Euro OTC	Base cream DAC	92070819	7
Euro OTC	Base cream DAC	92080819	25
Euro OTC	Base cream DAC	92090819	11
Euro OTC	Base cream DAC	93730318	4
Euro OTC	Base cream DAC	93740318	9
Euro OTC	Base cream DAC	93740319	1
Euro OTC	Base cream DAC	93750318	1
Euro OTC	Base cream DAC	93760318	7
Euro OTC	Base cream DAC	93770318	7
Euro OTC	Base cream DAC	937770318	1
Euro OTC	Base cream DAC	97570413	1
Euro OTC	Base cream DAC	B55850317	1
Euro OTC	Base cream DAC	B72430816	1
Euro OTC	Base cream DAC	T09-0753806	1
Euro OTG/ Euro OTG Pharma	Base cream DAC	1501041-01	1
Euro OTG	Base cream DAC	1309008-01	2
Euro/ Phönix	Base cream DAC	1117Q-01309	1
Euro/ Phönix	Base cream DAC	15700518	1
Euro/ Phönix	Base cream DAC	27290917	1
Euro/ Phönix	Base cream DAC	4317E-01309	1
Euro/ Phönix	Base cream DAC	91310916	1
euro/Fiebig24.05.2019	Base cream DAC	13470119	2
Euro/Gehe	Base cream DAC	1312002-01	1
Euro/Phönix	Base cream DAC	29550618	1
Euro/Phönix	Base cream DAC	76571018	1
Euro	Base cream DAC	13470119	1
Euro	Base cream DAC	1501040-01	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Europ Ots Pharma	Base cream DAC	1501040-01	1
Europharm/Otto	Base cream DAC	1111028-01	2
Europharm/Otto	Base cream DAC	1411030-01	1
EuroPharm	Base cream DAC	1501008-01	2
F.Eimermacher GmbH&Co.KG	Base cream DAC	79000916	3
F.Eimermacher GmbH	Base cream DAC	79000916	2
F.Eimermacher/Ph	Base cream DAC	47880419	1
Fag	Base cream DAC	18G13-T11-058079	1
Fagorn/Alliance	Base cream DAC	16G20-T05-035308	2
Fagron	Base cream DAC		6
Fagron	Base cream DAC	11297301	1
Fagron	Base cream DAC	1130-T01	1
Fagron	Base cream DAC	117U-01309	1
Fagron	Base cream DAC	11831116	1
Fagron	Base cream DAC	11B11-T05	4
Fagron	Base cream DAC	123456789	1
Fagron	Base cream DAC	12C02-T08	5
Fagron	Base cream DAC	12C02-T09	1
Fagron	Base cream DAC	12C26-T04	1
Fagron	Base cream DAC	12C26-T08	2
Fagron	Base cream DAC	12C26-T14	1
Fagron	Base cream DAC	12G25-T03	1
Fagron	Base cream DAC	12G25-T04	2
Fagron	Base cream DAC	12G25-T06	2
Fagron	Base cream DAC	12G25-T10	1
Fagron	Base cream DAC	12G25-T12	2
Fagron	Base cream DAC	13111101	1
Fagron	Base cream DAC	13249901	1
Fagron	Base cream DAC	13311701	1
Fagron	Base cream DAC	13378001	1
Fagron	Base cream DAC	13380901	1
Fagron	Base cream DAC	13A08-T06-000034	1
Fagron	Base cream DAC	13A09T10000232	1
Fagron	Base cream DAC	13A09-T10-000232	3
Fagron	Base cream DAC	13A09-T12-000238	1
Fagron	Base cream DAC	13A09-T12-236	1
Fagron	Base cream DAC	13A09-T14-000244	1
Fagron	Base cream DAC	13A09-T14-ooo244	1
Fagron	Base cream DAC	13A09-T18-000259	2
Fagron	Base cream DAC	13A09-T19-00194	1
Fagron	Base cream DAC	13A09-T19-001949	1
Fagron	Base cream DAC	13A09-T19-001952	1
Fagron	Base cream DAC	13C05-T-003297	1
Fagron	Base cream DAC	13C05-T03-00175	1
Fagron	Base cream DAC	13C05-T03-001755	1
Fagron	Base cream DAC	13C05T03001756	1
Fagron	Base cream DAC	13C05-T03-001756	7
Fagron	Base cream DAC	13C05-T04-001760	1
Fagron	Base cream DAC	13C05-T06-001767	1
Fagron	Base cream DAC	13C05-T09-001778	3
Fagron	Base cream DAC	13C05-T10-003297	1
Fagron	Base cream DAC	13C05T10003301	1
Fagron	Base cream DAC	13C05-T10-003301	2
Fagron	Base cream DAC	13E20-T01-003865	1
Fagron	Base cream DAC	13E21-T04-003893	1
Fagron	Base cream DAC	13E21-T04-003894	4
Fagron	Base cream DAC	13E21-T05-003897	6
Fagron	Base cream DAC	13E21-T06-003900	1
Fagron	Base cream DAC	13E21-T07-003903	3
Fagron	Base cream DAC	13E21-T08-003906	11

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	13E21-T09-003910	1
Fagron	Base cream DAC	13E22-T04-003975	1
Fagron	Base cream DAC	13E22-T05-003978	1
Fagron	Base cream DAC	13E22t06003981	1
Fagron	Base cream DAC	13E22-T07-003984	1
Fagron	Base cream DAC	13E22-T08-003987	2
Fagron	Base cream DAC	13E22T09003991	1
Fagron	Base cream DAC	13E23-004023	1
Fagron	Base cream DAC	13E23-T06-004008	3
Fagron	Base cream DAC	13E23-T07-004011	3
Fagron	Base cream DAC	13E23-T08-004015	1
Fagron	Base cream DAC	13E23-T09	3
Fagron	Base cream DAC	13E23T10004023	1
Fagron	Base cream DAC	13E23-T10-004023	1
Fagron	Base cream DAC	13E23-T12	1
Fagron	Base cream DAC	13E23-T16-004035	2
Fagron	Base cream DAC	13h14_t02_006207	1
Fagron	Base cream DAC	13H14-T01-006202	1
Fagron	Base cream DAC	13H14T01006203	1
Fagron	Base cream DAC	13H14-T01-006203	2
Fagron	Base cream DAC	13H14T02006207	1
Fagron	Base cream DAC	13H14-T02-006207	1
Fagron	Base cream DAC	13H14-T03-006212	1
Fagron	Base cream DAC	13H14-T04-006218	3
Fagron	Base cream DAC	13H14-T06-006224	1
Fagron	Base cream DAC	13H14T080	1
Fagron	Base cream DAC	13H14-T09	1
Fagron	Base cream DAC	13H14-T10-007314	1
Fagron	Base cream DAC	13K12-T02-008039	5
Fagron	Base cream DAC	13K12-T04008048	1
Fagron	Base cream DAC	13K12-T06-0004	1
Fagron	Base cream DAC	13K12-T07-008057	1
Fagron	Base cream DAC	13K12-T08-008063	1
Fagron	Base cream DAC	1408-T08-011710	1
Fagron	Base cream DAC	14151501	1
Fagron	Base cream DAC	14223201	1
Fagron	Base cream DAC	14322301	1
Fagron	Base cream DAC	14A10-T05-009253	1
Fagron	Base cream DAC	14A10-T05-009254	1
Fagron	Base cream DAC	14A10-T06	1
Fagron	Base cream DAC	14A10-T06-009259	6
Fagron	Base cream DAC	14A13-T02-009280	1
Fagron	Base cream DAC	14A13-T04009286	1
Fagron	Base cream DAC	14A13-T04-009286	1
Fagron	Base cream DAC	14A13T05009289	1
Fagron	Base cream DAC	14A13-T06	1
Fagron	Base cream DAC	14A13-T07-009298	1
Fagron	Base cream DAC	14B28T04010673	1
Fagron	Base cream DAC	14D085T045011692	1
Fagron	Base cream DAC	14D08-T01-011683	4
Fagron	Base cream DAC	14D-08-T01-011683	1
Fagron	Base cream DAC	14d08t02011686	1
Fagron	Base cream DAC	14D08-T02-011686	4
Fagron	Base cream DAC	14D08-T03-01168	1
Fagron	Base cream DAC	14D08-T03-011689	7
Fagron	Base cream DAC	14D08-T-03-011689	1
Fagron	Base cream DAC	14d08-t04-011632	1
Fagron	Base cream DAC	14D08-T04-011692	8
Fagron	Base cream DAC	14D08-T05-011697	6
Fagron	Base cream DAC	14D08-T05-011698	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	14D08-T06-011702	1
Fagron	Base cream DAC	14D08-T08-011710	4
Fagron	Base cream DAC	14D08-T10-011716	2
Fagron	Base cream DAC	14Do8-T04-011692	1
Fagron	Base cream DAC	14F05T06012961	1
Fagron	Base cream DAC	14F05-T06-012961	7
Fagron	Base cream DAC	14F05-T07	1
Fagron	Base cream DAC	14F05-T07-012965	4
Fagron	Base cream DAC	14F05-T07-012966	1
Fagron	Base cream DAC	14F05T08	2
Fagron	Base cream DAC	14F05-T08-012969	1
Fagron	Base cream DAC	14F05-T24	1
Fagron	Base cream DAC	14F05-T24-012983	7
Fagron	Base cream DAC	14F06-T04	1
Fagron	Base cream DAC	14F06-T04-013010	2
Fagron	Base cream DAC	14F06-T05-013014	1
Fagron	Base cream DAC	14FO6-T04-013010	1
Fagron	Base cream DAC	14J06-T08-015886	10
Fagron	Base cream DAC	14J07-T06-015957	5
Fagron	Base cream DAC	14J07-T07	1
Fagron	Base cream DAC	14j07-T07-015961	1
Fagron	Base cream DAC	14J07-T07-015961	2
Fagron	Base cream DAC	14J07-T08-015964	4
Fagron	Base cream DAC	14J07-T09	1
Fagron	Base cream DAC	14J07-T09-015967	3
Fagron	Base cream DAC	14J07-T10-015971	2
Fagron	Base cream DAC	14J07-T10-015972	2
Fagron	Base cream DAC	14J07-T11-015975	2
Fagron	Base cream DAC	14J07-T12	1
Fagron	Base cream DAC	14J07-T12-015978	1
Fagron	Base cream DAC	14J07-T13-015981	3
Fagron	Base cream DAC	14J07-T14-015986	1
Fagron	Base cream DAC	14J23-T04-016463	2
Fagron	Base cream DAC	14K05_T07	1
Fagron	Base cream DAC	14K05-016793	1
Fagron	Base cream DAC	14k05-t05-016793	1
Fagron	Base cream DAC	14K05-T05-016793	2
Fagron	Base cream DAC	14K05-T05-061793	1
Fagron	Base cream DAC	14k05-t06-016796	1
Fagron	Base cream DAC	14K05-T06-016796	4
Fagron	Base cream DAC	14k05t07016800	1
Fagron	Base cream DAC	14k05-t07016800	1
Fagron	Base cream DAC	14K05-T07-016800	8
Fagron	Base cream DAC	14K05-T08-016808	1
Fagron	Base cream DAC	15/3-T03-026895	1
Fagron	Base cream DAC	15011-T04-020384	1
Fagron	Base cream DAC	15173601	1
Fagron	Base cream DAC	15241801	1
Fagron	Base cream DAC	15690518	1
Fagron	Base cream DAC	1586	1
Fagron	Base cream DAC	15B19-T13-019450	1
Fagron	Base cream DAC	15C11-T04-020383	1
Fagron	Base cream DAC	15C11-T04-020384	4
Fagron	Base cream DAC	15C11T05020388	1
Fagron	Base cream DAC	15C11-T05020388	1
Fagron	Base cream DAC	15C11-T05-020388	8
Fagron	Base cream DAC	15C11-T06-020392	2
Fagron	Base cream DAC	15C11-T07	2
Fagron	Base cream DAC	15c11t07020396	1
Fagron	Base cream DAC	15C11-T07-020396	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	15C11-T09	1
Fagron	Base cream DAC	15C11-T09-020405	1
Fagron	Base cream DAC	15C11-T10-020408	2
Fagron	Base cream DAC	15C11-T11-020411	4
Fagron	Base cream DAC	15C11T13020416	1
Fagron	Base cream DAC	15C11-T13-020416	1
Fagron	Base cream DAC	15C11-T14-020420	2
Fagron	Base cream DAC	15C11-To4-020384	1
Fagron	Base cream DAC	15E27-T02-022881	6
Fagron	Base cream DAC	15E27-T02-22881	1
Fagron	Base cream DAC	15G09-19-024414	1
Fagron	Base cream DAC	15G09-T19-024414	1
Fagron	Base cream DAC	15G09-T19-024415	2
Fagron	Base cream DAC	15G09-T19-024416	2
Fagron	Base cream DAC	15H01-T13-025003	1
Fagron	Base cream DAC	15H04-T05-024975	15
Fagron	Base cream DAC	15H04-T06	1
Fagron	Base cream DAC	15h04-t06-024978	2
Fagron	Base cream DAC	15H04T06024978	2
Fagron	Base cream DAC	15H04-T06-024978	9
Fagron	Base cream DAC	15H04-T07	1
Fagron	Base cream DAC	15H04-T07-024983	2
Fagron	Base cream DAC	15H04-T08	1
Fagron	Base cream DAC	15H04-T08-024987	2
Fagron	Base cream DAC	15H04-T09-024991	2
Fagron	Base cream DAC	15H04-T10-024994	3
Fagron	Base cream DAC	15H04T11024997	1
Fagron	Base cream DAC	15H04-T11-024997	5
Fagron	Base cream DAC	15H04-T12-025000	2
Fagron	Base cream DAC	15H04-T13-025003	3
Fagron	Base cream DAC	15H04-T14-025007	5
Fagron	Base cream DAC	15h3-T03-026895	1
Fagron	Base cream DAC	15I13-T03-026895	1
Fagron	Base cream DAC	15J13-T03-026895	7
Fagron	Base cream DAC	15J13-T03-26895	1
Fagron	Base cream DAC	15J13-T04-026901	1
Fagron	Base cream DAC	15J15-T01-027034	1
Fagron	Base cream DAC	15l17-T01_028772	1
Fagron	Base cream DAC	15L17-T01-028772	3
Fagron	Base cream DAC	15l17-T03-028775	4
Fagron	Base cream DAC	15L17-T03-028775	8
Fagron	Base cream DAC	15L17-T04	1
Fagron	Base cream DAC	15L17-T04-028778	2
Fagron	Base cream DAC	15L17-T05-028785	2
Fagron	Base cream DAC	15L17-T06-028791	1
Fagron	Base cream DAC	16091901	1
Fagron	Base cream DAC	16145601	1
Fagron	Base cream DAC	1614-T02-031202	1
Fagron	Base cream DAC	16220401	1
Fagron	Base cream DAC	16261501	1
Fagron	Base cream DAC	16815-T04-030282	1
Fagron	Base cream DAC	16920-t05-035308	1
Fagron	Base cream DAC	16A25-T02-029645	1
Fagron	Base cream DAC	16B15_T01_030274	1
Fagron	Base cream DAC	16b15-f04-030281	1
Fagron	Base cream DAC	16B15-T01-0300274	1
Fagron	Base cream DAC	16b15-t01-030274	1
Fagron	Base cream DAC	16b15-T01-030274	1
Fagron	Base cream DAC	16B15-T01-030274	10
Fagron	Base cream DAC	16b15t02-030277	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	16B15-T02-030277	10
Fagron	Base cream DAC	16B15-T04-03028	1
Fagron	Base cream DAC	16B15-T04-030281	8
Fagron	Base cream DAC	16B15-T04-030282	1
Fagron	Base cream DAC	16B15-T05_030285	1
Fagron	Base cream DAC	16B15-T05-030285	2
Fagron	Base cream DAC	16B28-T06-064721	1
Fagron	Base cream DAC	16C14-T01-031199	3
Fagron	Base cream DAC	16C14-T02	1
Fagron	Base cream DAC	16c14t02-031202	1
Fagron	Base cream DAC	16C14-T02-031202	3
Fagron	Base cream DAC	16C14-T03	1
Fagron	Base cream DAC	16C14T03-031205	1
Fagron	Base cream DAC	16C14-T03-031205	2
Fagron	Base cream DAC	16c24-t05031490	1
Fagron	Base cream DAC	16c24-t05-031490	1
Fagron	Base cream DAC	16C24-T05031490	1
Fagron	Base cream DAC	16C24-T05-031490	10
Fagron	Base cream DAC	16c24-t06-031494	2
Fagron	Base cream DAC	16C24-T06-031494	10
Fagron	Base cream DAC	16C-T06-031494	1
Fagron	Base cream DAC	16D06H07-031930	1
Fagron	Base cream DAC	16D06-T04-0311914	1
Fagron	Base cream DAC	16D06-T04-031914	8
Fagron	Base cream DAC	16D06-T05-031922	1
Fagron	Base cream DAC	16D06-T05-031923	5
Fagron	Base cream DAC	16D06-T06-031926	2
Fagron	Base cream DAC	16D06-T07-031930	1
Fagron	Base cream DAC	16D06-T07-031931	2
Fagron	Base cream DAC	16D06-T07-0319930	1
Fagron	Base cream DAC	16D06-T08-031938	5
Fagron	Base cream DAC	16D06-T09-031941	6
Fagron	Base cream DAC	16D06-T10-031950	1
Fagron	Base cream DAC	16F01-T10-033893	2
Fagron	Base cream DAC	16f30-t13-034789	2
Fagron	Base cream DAC	16F30-T13-034789	17
Fagron	Base cream DAC	16f30-T14-034792	1
Fagron	Base cream DAC	16F30-T14-034792	16
Fagron	Base cream DAC	16F30-T15-034796	3
Fagron	Base cream DAC	16F30-T15-034797	6
Fagron	Base cream DAC	16F30-T16-034800	3
Fagron	Base cream DAC	16G20/T10/035327	1
Fagron	Base cream DAC	16G20-T04-035304	3
Fagron	Base cream DAC	16G20-T04-035305	13
Fagron	Base cream DAC	16G20-T05-035308	18
Fagron	Base cream DAC	16g20-t06-035312	1
Fagron	Base cream DAC	16G20t06035312	1
Fagron	Base cream DAC	16G20-T06-035312	10
Fagron	Base cream DAC	16G20-T07-035317	2
Fagron	Base cream DAC	16g20-t08-035321	1
Fagron	Base cream DAC	16G20-T08-035321	6
Fagron	Base cream DAC	16G20-T09-035324	2
Fagron	Base cream DAC	16G20-T10-035327	3
Fagron	Base cream DAC	16J11-T01-037607	4
Fagron	Base cream DAC	16J11-T02-037610	1
Fagron	Base cream DAC	16J11-T03-037614	2
Fagron	Base cream DAC	16J11-T03-037615	1
Fagron	Base cream DAC	16J11-T04-037619	4
Fagron	Base cream DAC	16J11-T05-037623	1
Fagron	Base cream DAC	16J11-T05-037624	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	17023401	1
Fagron	Base cream DAC	17103801	1
Fagron	Base cream DAC	1719Q-01309	1
Fagron	Base cream DAC	17229901	1
Fagron	Base cream DAC	17240001	1
Fagron	Base cream DAC	17243301	1
Fagron	Base cream DAC	17269301	1
Fagron	Base cream DAC	17a03_t08_040047	1
Fagron	Base cream DAC	17A03_T13_040067	1
Fagron	Base cream DAC	17A03-T07-040044	11
Fagron	Base cream DAC	17A03-T08-040047	24
Fagron	Base cream DAC	17A03-T-08-040047	1
Fagron	Base cream DAC	17A03-T09-040052	1
Fagron	Base cream DAC	17A03t10040056	1
Fagron	Base cream DAC	17A03-T10-040056	5
Fagron	Base cream DAC	17A03T11040060	1
Fagron	Base cream DAC	17A03-T11-040060	1
Fagron	Base cream DAC	17A03-T12-040064	2
Fagron	Base cream DAC	17A03-T13-040067	6
Fagron	Base cream DAC	17A03-T13-040070	1
Fagron	Base cream DAC	17A03-T15-040074	8
Fagron	Base cream DAC	17A03-To8-040047	1
Fagron	Base cream DAC	17A13-T09-040052	1
Fagron	Base cream DAC	17A3-T07-040044	1
Fagron	Base cream DAC	17A3-T08-040047	1
Fagron	Base cream DAC	17C16-T06-042610	3
Fagron	Base cream DAC	17C16-T06-042611	1
Fagron	Base cream DAC	17C16-T08-042619	2
Fagron	Base cream DAC	17C16-T09-042624	1
Fagron	Base cream DAC	17C16-T10-042627	1
Fagron	Base cream DAC	17C17-T06-042610	1
Fagron	Base cream DAC	17D01-T14-065578	1
Fagron	Base cream DAC	17E11-T07-044186	9
Fagron	Base cream DAC	17E11-T0744186	1
Fagron	Base cream DAC	17E11-T08	1
Fagron	Base cream DAC	17E11t08044210	1
Fagron	Base cream DAC	17E11-T10	1
Fagron	Base cream DAC	17E11-T10-044214	4
Fagron	Base cream DAC	17ET10-044241	1
Fagron	Base cream DAC	17F08-T02_045262	1
Fagron	Base cream DAC	17f08-t02-045262	1
Fagron	Base cream DAC	17F08T02045262	1
Fagron	Base cream DAC	17F08-T02-045262	27
Fagron	Base cream DAC	17F08-T02-045262	1
Fagron	Base cream DAC	17F08-T03-045267	11
Fagron	Base cream DAC	17F08-T03-05267	1
Fagron	Base cream DAC	17F08T04045271	1
Fagron	Base cream DAC	17F08T04-045271	1
Fagron	Base cream DAC	17F08-T04-045271	5
Fagron	Base cream DAC	17F08-T05-045274	4
Fagron	Base cream DAC	17F08-T06-045278	1
Fagron	Base cream DAC	17F08-T06-045279	7
Fagron	Base cream DAC	17F08-T07-045282	4
Fagron	Base cream DAC	17Fo8-T03-045267	1
Fagron	Base cream DAC	17H25_T06_047736	1
Fagron	Base cream DAC	17h25-t06-047736	1
Fagron	Base cream DAC	17H25-T06-047736	31
Fagron	Base cream DAC	17H25-T06-0477360687	1
Fagron	Base cream DAC	17H25-T07-04774	1
Fagron	Base cream DAC	17H25-T07-047741	11

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	17H25-T08	2
Fagron	Base cream DAC	17H25-T08-047745	6
Fagron	Base cream DAC	17H25-T09-047748	4
Fagron	Base cream DAC	17H25-T10-047753	8
Fagron	Base cream DAC	17H25-T12-047760	4
Fagron	Base cream DAC	17H25-T9-047748	1
Fagron	Base cream DAC	17K24-T02-050485	6
Fagron	Base cream DAC	17k24-t03-050489	2
Fagron	Base cream DAC	17k24-T03-050489	2
Fagron	Base cream DAC	17K24-T03-050489	11
Fagron	Base cream DAC	17K24-T04-050494	5
Fagron	Base cream DAC	17k24-t04-050495	1
Fagron	Base cream DAC	17K24-T04-050495	3
Fagron	Base cream DAC	17K24-T05	1
Fagron	Base cream DAC	17K24T05050498	1
Fagron	Base cream DAC	17K24-T05-050498	4
Fagron	Base cream DAC	17K24-T06-050503	3
Fagron	Base cream DAC	17K24-T07-050507	11
Fagron	Base cream DAC	17K24-T07-050508	4
Fagron	Base cream DAC	18126301	2
Fagron	Base cream DAC	18137201	1
Fagron	Base cream DAC	18165701	2
Fagron	Base cream DAC	18166401	2
Fagron	Base cream DAC	18166701	1
Fagron	Base cream DAC	18166901	1
Fagron	Base cream DAC	18270101	1
Fagron	Base cream DAC	185473-1	1
Fagron	Base cream DAC	18C13-T10-058076	1
Fagron	Base cream DAC	18C19-T16-053945	6
Fagron	Base cream DAC	18C19-T17-053948	23
Fagron	Base cream DAC	18C19-T17-0553948	2
Fagron	Base cream DAC	18c19-t18-053952	3
Fagron	Base cream DAC	18c19-T18-053952	1
Fagron	Base cream DAC	18C19-T18-053952	18
Fagron	Base cream DAC	18C19-T19-053948	1
Fagron	Base cream DAC	18C19-T19-053957	1
Fagron	Base cream DAC	18C19-T20	1
Fagron	Base cream DAC	18C19-T20-05362	1
Fagron	Base cream DAC	18C19T20053962	1
Fagron	Base cream DAC	18C19T20-053962	1
Fagron	Base cream DAC	18C19-T20-053962	6
Fagron	Base cream DAC	18C19T21-053965	1
Fagron	Base cream DAC	18C19-T21-053965	4
Fagron	Base cream DAC	18C19-T22-0536970	1
Fagron	Base cream DAC	18c19-t22-053971	1
Fagron	Base cream DAC	18C19-T22-053971	7
Fagron	Base cream DAC	18C19-T23	2
Fagron	Base cream DAC	18C19-T23-053974	5
Fagron	Base cream DAC	18C19-T24	2
Fagron	Base cream DAC	18C19-T24-053978	1
Fagron	Base cream DAC	18C-T17-053948	1
Fagron	Base cream DAC	18E23-T15	1
Fagron	Base cream DAC	18e23-t15-056314	1
Fagron	Base cream DAC	18E23T15056314	1
Fagron	Base cream DAC	18E23-T15-056314	17
Fagron	Base cream DAC	18-E23-T15-056414	1
Fagron	Base cream DAC	18E23-T15-156314	1
Fagron	Base cream DAC	18E23-T16-056321	10
Fagron	Base cream DAC	18E23-T16-056322	1
Fagron	Base cream DAC	18E23-T17-056325	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	18E23-T18-056338	3
Fagron	Base cream DAC	18E23-T19-056343	1
Fagron	Base cream DAC	18E-23T19-056343	1
Fagron	Base cream DAC	18E23-T20	3
Fagron	Base cream DAC	18E23-T20-056346	2
Fagron	Base cream DAC	18E23-T21-056349	1
Fagron	Base cream DAC	18E23-T22-056352	7
Fagron	Base cream DAC	18E23-T22-o56352	1
Fagron	Base cream DAC	18E23-T23-056356	1
Fagron	Base cream DAC	18E23-T23-056357	3
Fagron	Base cream DAC	18G13-T09_058073	1
Fagron	Base cream DAC	18G13-T09-058073	18
Fagron	Base cream DAC	18G13-T09-05B073	1
Fagron	Base cream DAC	18G13-T10-058076	27
Fagron	Base cream DAC	18G13-T11_058079	1
Fagron	Base cream DAC	18G13-T11-058079	24
Fagron	Base cream DAC	18G13-T12-058084	7
Fagron	Base cream DAC	18G13-T13-058087	5
Fagron	Base cream DAC	18G13-T14-058090	4
Fagron	Base cream DAC	18G13-T15-058093	4
Fagron	Base cream DAC	18G13-T16-058086	1
Fagron	Base cream DAC	18G13-T16-058096	3
Fagron	Base cream DAC	18G13-T6-058096	1
Fagron	Base cream DAC	18G13-To9-o58o73	1
Fagron	Base cream DAC	18G-T14-058090	1
Fagron	Base cream DAC	18H20-T16-059356	3
Fagron	Base cream DAC	18KL20-T12-062935	1
Fagron	Base cream DAC	18l19-t15-062894	1
Fagron	Base cream DAC	18L19-T15-062894	22
Fagron	Base cream DAC	18L20-T11-062930	14
Fagron	Base cream DAC	18L20-T12-062935	12
Fagron	Base cream DAC	18L20-T12-062936	5
Fagron	Base cream DAC	18L20T13-062940	1
Fagron	Base cream DAC	18L20-T13-062940	2
Fagron	Base cream DAC	18L20-T14-062943	1
Fagron	Base cream DAC	18L20-T17	1
Fagron	Base cream DAC	18L20T17062947	1
Fagron	Base cream DAC	18L20-T17-062947	2
Fagron	Base cream DAC	18L20-T17-062948	4
Fagron	Base cream DAC	18L20-T19-062951	7
Fagron	Base cream DAC	18L20-T21	1
Fagron	Base cream DAC	18L20-T21-062957	1
Fagron	Base cream DAC	18W23-T15-056314	1
Fagron	Base cream DAC	19269701	1
Fagron	Base cream DAC	19B28-08-064729	1
Fagron	Base cream DAC	19B28T06064721	1
Fagron	Base cream DAC	19B28-T06-064721	5
Fagron	Base cream DAC	19B28-T06-064722	1
Fagron	Base cream DAC	19B28-T06-065722	2
Fagron	Base cream DAC	19B28-T07	1
Fagron	Base cream DAC	19B28T07064725	1
Fagron	Base cream DAC	19B28-T07-064725	4
Fagron	Base cream DAC	19B28-T08-064729	4
Fagron	Base cream DAC	19B28-T09-064734	2
Fagron	Base cream DAC	19B28-T09-064735	1
Fagron	Base cream DAC	19C12-T05-065270	1
Fagron	Base cream DAC	19C19-T22-065192	1
Fagron	Base cream DAC	19C21-T04-065267	2
Fagron	Base cream DAC	19C21-T05	2
Fagron	Base cream DAC	19C21-T05-065270	7

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	19D01-T13-065575	15
Fagron	Base cream DAC	19D01-T13-067064	1
Fagron	Base cream DAC	19d01t14065578	1
Fagron	Base cream DAC	19D01-T14065578	1
Fagron	Base cream DAC	19D01-T14-065578	18
Fagron	Base cream DAC	19D01-T15-065582	2
Fagron	Base cream DAC	19Do1-T13-065575	2
Fagron	Base cream DAC	19DO1-T13-065575	1
Fagron	Base cream DAC	19Do1-T14-065578	1
Fagron	Base cream DAC	19DO1-T14-065578	1
Fagron	Base cream DAC	19G08_T03_069142	1
Fagron	Base cream DAC	19G08_T04-069148	1
Fagron	Base cream DAC	19g08-t03-069142	1
Fagron	Base cream DAC	19G08T03069142	2
Fagron	Base cream DAC	19G08-T03-069142	21
Fagron	Base cream DAC	19G08-T04-069148	15
Fagron	Base cream DAC	19G08-T05_069152	1
Fagron	Base cream DAC	19G08-T05-0691502	1
Fagron	Base cream DAC	19G08-T05-069152	16
Fagron	Base cream DAC	19G08-T05-0699152	1
Fagron	Base cream DAC	19g08-t06-069156	1
Fagron	Base cream DAC	19G08-T06-069156	11
Fagron	Base cream DAC	19G08-T06-069157	2
Fagron	Base cream DAC	19G08-T07	1
Fagron	Base cream DAC	19G08-T07-069160	1
Fagron	Base cream DAC	19G08-T08-069163	2
Fagron	Base cream DAC	19G08-T09-069166	4
Fagron	Base cream DAC	19G08-T10-069169	7
Fagron	Base cream DAC	19G08-T11-069172	6
Fagron	Base cream DAC	19G08-T12-069175	1
Fagron	Base cream DAC	19G08-T13-069179	5
Fagron	Base cream DAC	19G08-T13-069180	1
Fagron	Base cream DAC	19G08-T14-069183	1
Fagron	Base cream DAC	19G18-T05-0691502	1
Fagron	Base cream DAC	19G8-T04-069148	1
Fagron	Base cream DAC	19Go8-T04-069148	1
Fagron	Base cream DAC	19Go8-T12-o69175	1
Fagron	Base cream DAC	19Go8To4069148	1
Fagron	Base cream DAC	19GO8To5069152	1
Fagron	Base cream DAC	19Go8-TO6-069156	1
Fagron	Base cream DAC	19H19-T09-070981	2
Fagron	Base cream DAC	19H19-T10_070985	1
Fagron	Base cream DAC	19H19-T10-070985	2
Fagron	Base cream DAC	19H19-T10-070986	1
Fagron	Base cream DAC	19H19-T11-070989	3
Fagron	Base cream DAC	19H19-T12-0709902	1
Fagron	Base cream DAC	19H19-T12-070992	1
Fagron	Base cream DAC	19H19-T14	2
Fagron	Base cream DAC	19H19-T14-07098	1
Fagron	Base cream DAC	19H19-T14-070998	6
Fagron	Base cream DAC	19H19-T15	1
Fagron	Base cream DAC	19H19-T15-071001	5
Fagron	Base cream DAC	19H9-T09-070981	1
Fagron	Base cream DAC	19J15T14072756	1
Fagron	Base cream DAC	19l13-t03-074060	1
Fagron	Base cream DAC	19L13-T04-074063	2
Fagron	Base cream DAC	19L20-T19-06295	1
Fagron	Base cream DAC	19L23-T04-074063	1
Fagron	Base cream DAC	1BG13-T16-058096	1
Fagron	Base cream DAC	20/04-T07-082563	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	20/14-T06-083251	1
Fagron	Base cream DAC	2003183001	1
Fagron	Base cream DAC	2004-T04-082552	1
Fagron	Base cream DAC	2014-T06-083251	1
Fagron	Base cream DAC	20B10-T09-075386	3
Fagron	Base cream DAC	20B10T10075389	1
Fagron	Base cream DAC	20B10-T10-075389	2
Fagron	Base cream DAC	20B10-T11-075393	1
Fagron	Base cream DAC	20B10T12075397	4
Fagron	Base cream DAC	20B10-T12-075397	6
Fagron	Base cream DAC	20B10T13075420	1
Fagron	Base cream DAC	20B10-T13-075420	6
Fagron	Base cream DAC	20B10-T14-075424	5
Fagron	Base cream DAC	20B10-T14-075454	1
Fagron	Base cream DAC	20B10-T14-075424	1
Fagron	Base cream DAC	20B10-T15-075437	4
Fagron	Base cream DAC	20B10-T16-075441	3
Fagron	Base cream DAC	20C02-T03-076757	1
Fagron	Base cream DAC	20C02-T04-076763	1
Fagron	Base cream DAC	20C06-T01-076945	2
Fagron	Base cream DAC	20c17-t21-077637	1
Fagron	Base cream DAC	20c17-T21-077637	1
Fagron	Base cream DAC	20C17T21-077637	1
Fagron	Base cream DAC	20C17-T21-077637	13
Fagron	Base cream DAC	20c17-T21-077640	1
Fagron	Base cream DAC	20C17-T21-77637	1
Fagron	Base cream DAC	20C17-T22-077640	11
Fagron	Base cream DAC	20C17-T22-0776400	1
Fagron	Base cream DAC	20C17-T24-077648	1
Fagron	Base cream DAC	20C17-T25-077653	4
Fagron	Base cream DAC	20C17-T26-077656	4
Fagron	Base cream DAC	20C17-T27-077659	1
Fagron	Base cream DAC	20C17-T28-077662	4
Fagron	Base cream DAC	20C17-T30-0776608	3
Fagron	Base cream DAC	20Co2-T04-076763	1
Fagron	Base cream DAC	20D23_T01-01-079518	1
Fagron	Base cream DAC	20D23-T01-079518	11
Fagron	Base cream DAC	20F18-T03-0812006	1
Fagron	Base cream DAC	20F18-T03-081206	10
Fagron	Base cream DAC	20F18-T04-0812009	1
Fagron	Base cream DAC	20F18-T04-081209	11
Fagron	Base cream DAC	20F18-T05-081213	5
Fagron	Base cream DAC	20F18-T05-081214	1
Fagron	Base cream DAC	20F18-T06-081217	1
Fagron	Base cream DAC	20F18-T07-081220	1
Fagron	Base cream DAC	20F18-T11-081234	3
Fagron	Base cream DAC	20F18-To6-081217	1
Fagron	Base cream DAC	20Fi8-T06-081217	1
Fagron	Base cream DAC	20I04-T04-082552	2
Fagron	Base cream DAC	20I04-T05-082555	4
Fagron	Base cream DAC	20J14-T06-083251	3
Fagron	Base cream DAC	20J14-T0803251	1
Fagron	Base cream DAC	20J20-T01-083380	2
Fagron	Base cream DAC	20l04-T04-082552	1
Fagron	Base cream DAC	211G21-T09-090107	1
Fagron	Base cream DAC	21B15-T26-086442	2
Fagron	Base cream DAC	21B15-T26-086443	1
Fagron	Base cream DAC	21B15-T29-086454	1
Fagron	Base cream DAC	21C23-T04-087178	2
Fagron	Base cream DAC	21C23-T04-087179	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream DAC	21D20-T11-087768	5
Fagron	Base cream DAC	21D20-T12-087773	1
Fagron	Base cream DAC	21D20-T13-087777	2
Fagron	Base cream DAC	21D20-T13-087778	1
Fagron	Base cream DAC	21g21-t05-090092	1
Fagron	Base cream DAC	21G21-T06-090096	1
Fagron	Base cream DAC	21H09-T12-090786	2
Fagron	Base cream DAC	21H09-T12-09078612	1
Fagron	Base cream DAC	21k19-t03-092809	1
Fagron	Base cream DAC	22B14-T05	1
Fagron	Base cream DAC	26F30T14034792	1
Fagron	Base cream DAC	283915	1
Fagron	Base cream DAC	286157	1
Fagron	Base cream DAC	287197	1
Fagron	Base cream DAC	289803	1
Fagron	Base cream DAC	295898	1
Fagron	Base cream DAC	299324	1
Fagron	Base cream DAC	3613E-01309	1
Fagron	Base cream DAC	39210516	2
Fagron	Base cream DAC	3987	2
Fagron	Base cream DAC	412/2	2
Fagron	Base cream DAC	45340616	1
Fagron	Base cream DAC	5069152	3
Fagron	Base cream DAC	51570217	1
Fagron	Base cream DAC	5321100	1
Fagron	Base cream DAC	53945	1
Fagron	Base cream DAC	56314	1
Fagron	Base cream DAC	58079	1
Fagron	Base cream DAC	6879559	1
Fagron	Base cream DAC	701228-0002	1
Fagron	Base cream DAC	701228-0017	1
Fagron	Base cream DAC	76571018	2
Fagron	Base cream DAC	8003325007	1
Fagron	Base cream DAC	8004134006	1
Fagron	Base cream DAC	8004996004	1
Fagron	Base cream DAC	93/20	1
Fagron	Base cream DAC	T04-0691408	2
Fagron	Base cream DAC	T04-0825502	2
Fagron	Base cream DAC	T04-0871708	1
Fagron	Base cream DAC	T04-0900808	3
Fagron	Base cream DAC	T05-0691502	1
Fagron	Base cream DAC	T05-0812103	4
Fagron	Base cream DAC	T06-0832501	1
Fagron	Base cream DAC	T08-015887	1
Fagron	Base cream DAC	T10-0709805	1
Fagron	Base cream DAC	T11-0877608	1
Fagron	Base cream DAC	T12-0907806	1
Fagron	Base cream DAC	T13-0754200	2
Fagron	Base cream DAC	T14-072756	1
Fagron	Base cream DAC	T14-0754204	2
Fagron	Base cream DAC	T21-0776307	3
Fagron	Base cream DAC	T24-0776408	1
Fagron	Base cream DAC	T26-0776506	1
Fagron	Base cream DAC	T26-0864402	1
Fagron	Base cream DAC	To1-0833800	1
Fargo	Base cream DAC	20C17-T25-077652	1
Fargo	Base cream DAC	T03-0812006	1
Fargon GmbH & Co.KG	Base cream DAC	16C24-T05-031490	1
Fargon/ Phönix	Base cream DAC	14K05T06016796	1
Fargon/AHD	Base cream DAC	T04-0812009	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fargon/Anzag	Base cream DAC	13H14-T01-006203	1
Fargon/Gehe	Base cream DAC	17F08-T04-045271	1
Fargon/Gehe	Base cream DAC	27348917	1
Fargon/Phönix	Base cream DAC	21B15-T26-086442	2
Fargon	Base cream DAC	13E20-T01-003865	1
Fargon	Base cream DAC	16F30-T-034789	1
Fargon	Base cream DAC	17A03-T07-040044	4
Fargon	Base cream DAC	17H25-T07-047741	2
Fargon	Base cream DAC	19g08-T03-06942	1
Fargon	Base cream DAC	19g08-T04-069148	1
Fargon	Base cream DAC	20C02-T05-076760	1
Fargron/Anzag	Base cream DAC	T03-0812006	1
Fer. Eimermacher GmbH &...	Base cream DAC	47880419	3
Ferd. Eimermacher GmbH ...	Base cream DAC	14110817	2
Ferd. Eimermacher GmbH ...	Base cream DAC	14130817	1
Ferd. Eimermacher GmbH ...	Base cream DAC	51590217	1
Ferd. Eimermacher GmbH ...	Base cream DAC	63340317	1
Ferd. Eimermacher GmbH ...	Base cream DAC	61371217	1
Ferd. Eimermacher GmbH ...	Base cream DAC	72250417	1
Ferd. Eimermacher GmbH ...	Base cream DAC	29220416	3
Ferd. Eimermacher GmbH ...	Base cream DAC	14120715	4
Ferd. Eimermacher GmbH ...	Base cream DAC	47870419	3
Ferd. Eimermacher GmbH ...	Base cream DAC	60640519	1
Ferd. Eimermacher GmbH ...	Base cream DAC	6671116	4
Ferd. Eimermacher GmbH ...	Base cream DAC	71950619	1
Ferd. Eimermacher GmbH	Base cream DAC	44960616	1
Ferd. Eimermacher GmbH	Base cream DAC	72240417	1
Ferd. Eimermacher/Noweda	Base cream DAC	70570420	1
Ferd. Eimermacher/Sanac...	Base cream DAC	47880419	2
Ferd. Eimermacher	Base cream DAC	3311218	1
Ferd. Eimermacher	Base cream DAC	36510319	3
Ferd.Eimermacher GmbH/ ...	Base cream DAC	14120715	3
Ferd.Eimermacher	Base cream DAC	74420221	3
Ferdi	Base cream DAC	21220113	1
Ferdinad Eimermacher/Rö...	Base cream DAC	47880419	1
Ferdinand Eimermacher G...	Base cream DAC	19440920	1
Ferdinand Eimermacher G...	Base cream DAC	58691021	3
Ferdinand Eimermacher/ ...	Base cream DAC	36510319	2
Ferdinand Eimermacher	Base cream DAC	15670621	1
Ferdinand Eimermacher	Base cream DAC	3311218	2
Ferdinand Eimermacher	Base cream DAC	47880419	3
Ferdinand Eimermacher	Base cream DAC	56590714	1
Ferdinand Eimermacher	Base cream DAC	57090315	3
Ferdinand Eimermacher	Base cream DAC	61361217	4
Ferdinand Eimermacher	Base cream DAC	80340218	6
Ferdinand Eimermacher	Base cream DAC	80400719	1
Ferdinand Eimermacher	Base cream DAC	95980718	3
Fiebig/Lamotte	Base cream DAC	8005713012	2
Fiebig/Lamotte	Base cream DAC	8005713014	2
Fiebig	Base cream DAC	14140817	2
Fiebig	Base cream DAC	16135001	1
Fiebig	Base cream DAC	17003201	1
Fiebig	Base cream DAC	17010001	1
Fiebig	Base cream DAC	17014401	1
Fiebig	Base cream DAC	17019501	1
Fiebig	Base cream DAC	17029101	1
Fiebig	Base cream DAC	17121501	1
Fiebig	Base cream DAC	17240301	1
Fiebig	Base cream DAC	17267701	1
Fiebig	Base cream DAC	18091102	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Base cream DAC	18166401	1
Fiebig	Base cream DAC	18269501	1
Fiebig	Base cream DAC	18270101	1
Fiebig	Base cream DAC	18270901	1
Fiebig	Base cream DAC	18G13-T10-058076	1
Fiebig	Base cream DAC	19240401	1
Fiebig	Base cream DAC	19270201	1
Fiebig	Base cream DAC	20001851001	1
Fiebig	Base cream DAC	20003191001	2
Fiebig	Base cream DAC	21000816001	1
Fiebig	Base cream DAC	55360616	1
Fiebig	Base cream DAC	6002237010	1
Fiebig	Base cream DAC	92080819	1
Fiebig	Base cream DAC	T11-0877608	1
Finteler Apotheke	Base cream DAC	16325801	1
Finze	Base cream DAC	12174901	1
Fischar	Base cream DAC	17K24-To3-050489	1
Frago/Gehe	Base cream DAC	16J11-T01-037607	1
Frago/Gehe	Base cream DAC	17A03-T11-040060	1
Frago/Gehe	Base cream DAC	17K24-T04-050495	2
Fragon/Phoenix	Base cream DAC	18G13-T14-058090	1
Fragon/Phoenix	Base cream DAC	18G13-T15-058093	1
Fragon/Sanacorp	Base cream DAC	18G13-T12-058084	1
Fragon/Sanacorp	Base cream DAC	18L20-T12-062936	1
Fragon/Sanacorp	Base cream DAC	19D01-T15-065582	3
Fragon	Base cream DAC	13E23-T15-005569	1
Fragron	Base cream DAC	16B15-T01-030274	2
Frau Brinn-Holtz	Base cream DAC	16005401	1
Gatt-Koller	Base cream DAC	1802206	1
Gehe / Spinnrad	Base cream DAC	16325801	1
Gehe 07.12.18	Base cream DAC	18167001	1
Gehe 13.10.2017 und 19....	Base cream DAC	72240417	1
GEHE 15.05.2014	Base cream DAC	14053701	1
Gehe 21-01-2019	Base cream DAC	18192601	1
GEHE 24.06.2014	Base cream DAC	14091601	1
Gehe 25.02.15	Base cream DAC	14325401	1
Gehe 28.05.2014	Base cream DAC	14090601	1
gehe 28.11.13	Base cream DAC	340/2	1
Gehe 28.5.18	Base cream DAC	80330218	1
Gehe am 08.04.2014	Base cream DAC	412/1	2
Gehe amax	Base cream DAC	8003325006	1
Gehe amax	Base cream DAC	8004134007	1
Gehe amax	Base cream DAC	8004996002	1
Gehe amax	Base cream DAC	8004996005	1
Gehe,27.0415	Base cream DAC	14F27-T03-013614	1
Gehe/Beyvers	Base cream DAC	440/2	1
Gehe/Ensbona	Base cream DAC	40140120	2
Gehe/Ensbona	Base cream DAC	47870419	1
Gehe/EuRho	Base cream DAC	1512002-01	1
Gehe/EuRho	Base cream DAC	4240919	2
Gehe/EuRho	Base cream DAC	76571018	1
Gehe/EuRho	Base cream DAC	80390719	1
Gehe/EuRho	Base cream DAC	91340916	1
Gehe/EuRho	Base cream DAC	93740318	1
Gehe/GMP	Base cream DAC	18G13-T15-058093	1
Gehe/GMP	Base cream DAC	18L20-T13-062940	1
Gehe/GMP	Base cream DAC	19G08-T09-069166	1
Gehe/P.W.Beyvers	Base cream DAC	731/1	1
Gehe/P.W.Beyvers	Base cream DAC	731/2	1
Gehe/P.W.Beyvers	Base cream DAC	731/3	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe/Pharmachem	Base cream DAC	17267301	1
Gehe	Base cream DAC		8
Gehe	Base cream DAC	111105101	1
Gehe	Base cream DAC	12005301	1
GEHE	Base cream DAC	12174801	1
Gehe	Base cream DAC	12262901	1
Gehe	Base cream DAC	1230113	1
Gehe	Base cream DAC	12347301	1
Gehe	Base cream DAC	13012501	2
Gehe	Base cream DAC	1302036-01	1
Gehe	Base cream DAC	1306044-01	1
Gehe	Base cream DAC	13198501	1
Gehe	Base cream DAC	13199101	1
Gehe	Base cream DAC	13310901	1
Gehe	Base cream DAC	13E22T05003978	1
Gehe	Base cream DAC	14325501	1
Gehe	Base cream DAC	14374201	1
Gehe	Base cream DAC	1502008-01	1
Gehe	Base cream DAC	1502026-01	1
Gehe	Base cream DAC	15040801	1
Gehe	Base cream DAC	15040901	1
Gehe	Base cream DAC	15064401	1
Gehe	Base cream DAC	1508001-01	1
Gehe	Base cream DAC	15164601	1
Gehe	Base cream DAC	15167001	1
Gehe	Base cream DAC	15173301	1
Gehe	Base cream DAC	15190601	1
Gehe	Base cream DAC	15190801	1
Gehe	Base cream DAC	15191001	1
Gehe	Base cream DAC	15250101	1
Gehe	Base cream DAC	15250501	1
Gehe	Base cream DAC	15250701	1
Gehe	Base cream DAC	15272301	1
Gehe	Base cream DAC	15315401	1
Gehe	Base cream DAC	15357601	1
Gehe	Base cream DAC	15357701	2
Gehe	Base cream DAC	15390401	1
Gehe	Base cream DAC	15391001	1
Gehe	Base cream DAC	15391201	1
Gehe	Base cream DAC	15420001	1
gehe	Base cream DAC	16005501	1
Gehe	Base cream DAC	1603029-01	1
Gehe	Base cream DAC	16055601	1
Gehe	Base cream DAC	16055901	2
Gehe	Base cream DAC	16059101	1
Gehe	Base cream DAC	16103901	2
Gehe	Base cream DAC	16132001	1
Gehe	Base cream DAC	16136101	1
Gehe	Base cream DAC	16205501	1
Gehe	Base cream DAC	16231901	1
Gehe	Base cream DAC	16232201	1
Gehe	Base cream DAC	16232301	1
Gehe	Base cream DAC	16238201	1
Gehe	Base cream DAC	16240301	2
Gehe	Base cream DAC	16260801	2
Gehe	Base cream DAC	16261101	2
Gehe	Base cream DAC	16326001	1
Gehe	Base cream DAC	16326101	7
Gehe	Base cream DAC	16G20-T05-035308	1
GEHE	Base cream DAC	17000071	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Base cream DAC	17000917	1
Gehe	Base cream DAC	17000922	1
Gehe	Base cream DAC	17003501	1
Gehe	Base cream DAC	17010201	1
Gehe	Base cream DAC	17023301	2
Gehe	Base cream DAC	17090601	1
Gehe	Base cream DAC	17097401	1
Gehe	Base cream DAC	17124001	2
Gehe	Base cream DAC	17224901	1
Gehe	Base cream DAC	17225501	1
Gehe	Base cream DAC	17229901	1
gehe	Base cream DAC	17230001	1
Gehe	Base cream DAC	17243401	1
Gehe	Base cream DAC	17243501	1
Gehe	Base cream DAC	17251601	1
Gehe	Base cream DAC	17266601	1
Gehe	Base cream DAC	17266901	1
Gehe	Base cream DAC	17267301	2
Gehe	Base cream DAC	17267501	4
Gehe	Base cream DAC	17349601	1
Gehe	Base cream DAC	17A03-T08-040047	1
Gehe	Base cream DAC	17K24-T07-050507	1
Gehe	Base cream DAC	18000497	1
Gehe	Base cream DAC	18000955	1
Gehe	Base cream DAC	18000964	1
GEHE	Base cream DAC	18000964	1
Gehe	Base cream DAC	18005751	1
Gehe	Base cream DAC	18015301	1
Gehe	Base cream DAC	18016701	1
GEHE	Base cream DAC	18081701	1
Gehe	Base cream DAC	18085202	1
Gehe	Base cream DAC	18091101	1
GEHE	Base cream DAC	18105101	1
GEHE	Base cream DAC	18137901	1
Gehe	Base cream DAC	18138001	1
Gehe	Base cream DAC	18138201	1
Gehe	Base cream DAC	18138301	2
Gehe	Base cream DAC	18138401	1
Gehe	Base cream DAC	18166401	1
GEHE	Base cream DAC	18166801	1
GEHE	Base cream DAC	18193001	1
Gehe	Base cream DAC	18193101	4
Gehe	Base cream DAC	18193301	1
Gehe	Base cream DAC	18232401	1
Gehe	Base cream DAC	18232501	1
Gehe	Base cream DAC	18232601	1
Gehe	Base cream DAC	18269001	1
Gehe	Base cream DAC	18269401	1
Gehe	Base cream DAC	18269501	1
GEHE	Base cream DAC	18270401	1
Gehe	Base cream DAC	18270501	2
Gehe	Base cream DAC	19000946	2
Gehe	Base cream DAC	19002691	1
Gehe	Base cream DAC	19003	3
GEHE	Base cream DAC	19003201	1
Gehe	Base cream DAC	19003601	1
Gehe	Base cream DAC	19052701	1
Gehe	Base cream DAC	19052801	1
GEHE	Base cream DAC	19116901	1
Gehe	Base cream DAC	19117201	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Base cream DAC	19117401	3
Gehe	Base cream DAC	19170501	1
gehe	Base cream DAC	19174001	1
Gehe	Base cream DAC	19174001	1
Gehe	Base cream DAC	19174301	4
Gehe	Base cream DAC	19270101	1
Gehe	Base cream DAC	19270301	1
Gehe	Base cream DAC	19270401	2
Gehe	Base cream DAC	19Go08-To9-o69166	1
Gehe	Base cream DAC	20000580001	1
Gehe	Base cream DAC	20001107001	1
Gehe	Base cream DAC	20003185001	1
Gehe	Base cream DAC	20003188001	1
Gehe	Base cream DAC	207/1	4
Gehe	Base cream DAC	207/2	1
Gehe	Base cream DAC	21003069001	1
Gehe	Base cream DAC	219/1	3
Gehe	Base cream DAC	219/2	3
Gehe	Base cream DAC	22000623001	1
Gehe	Base cream DAC	229/2	4
Gehe	Base cream DAC	234/1	1
Gehe	Base cream DAC	234/2	4
Gehe	Base cream DAC	27340917	1
Gehe	Base cream DAC	275277	1
Gehe	Base cream DAC	275590	1
Gehe	Base cream DAC	279961	1
Gehe	Base cream DAC	280082	1
Gehe	Base cream DAC	282769	1
Gehe	Base cream DAC	283974	1
Gehe	Base cream DAC	283975	1
Gehe	Base cream DAC	286088	1
Gehe	Base cream DAC	287941	1
Gehe	Base cream DAC	287947	1
Gehe	Base cream DAC	291025	1
Gehe	Base cream DAC	294834	1
Gehe	Base cream DAC	29870117	1
GEHE	Base cream DAC	304359	1
GEHE	Base cream DAC	305712	1
GEHE	Base cream DAC	305713	1
Gehe	Base cream DAC	305731	1
Gehe	Base cream DAC	306620	1
GEHE	Base cream DAC	306621	1
GEHE	Base cream DAC	307964	1
GEHE	Base cream DAC	307965	1
GEHE	Base cream DAC	310722	1
GEHE	Base cream DAC	310723	1
Gehe	Base cream DAC	319/1	2
Gehe	Base cream DAC	329/1	3
Gehe	Base cream DAC	329/2	1
Gehe	Base cream DAC	340/1	2
Gehe	Base cream DAC	45330616	1
GEHE	Base cream DAC	45940718	1
gehe	Base cream DAC	5650700	1
Gehe	Base cream DAC	6004859005	2
Gehe	Base cream DAC	6018791001	1
Gehe	Base cream DAC	6018791004	1
Gehe	Base cream DAC	79171121	1
Gehe	Base cream DAC	8003325003	1
Gehe	Base cream DAC	8003325004	3
Gehe	Base cream DAC	8003325007	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Base cream DAC	8004134004	1
GEHE	Base cream DAC	8004134005	2
Gehe	Base cream DAC	8004134006	1
Gehe	Base cream DAC	8004134007	1
Gehe	Base cream DAC	8004134008	1
Gehe	Base cream DAC	8004996001	3
Gehe	Base cream DAC	8004996002	1
gehe	Base cream DAC	8004996004	1
Gehe	Base cream DAC	8004996004	2
Gehe	Base cream DAC	8004996005	2
Gehe	Base cream DAC	8005713012	2
Gehe	Base cream DAC	8005713013	4
Gehe	Base cream DAC	8005713014	2
Gehe	Base cream DAC	8007236001	1
Gehe	Base cream DAC	8007236002	4
Gehe	Base cream DAC	8007236003	1
Gehe	Base cream DAC	8008385002	2
Gehe	Base cream DAC	8008386001	1
Gehe	Base cream DAC	8008386002	1
Gehe	Base cream DAC	cdbgsdgb	1
Geibo 24.08.	Base cream DAC	18138401	1
Geibo/Noweda	Base cream DAC	17349801	2
Geibo/Noweda	Base cream DAC	176267801	1
GMP/Noweda	Base cream DAC	18G13-T16-058096	1
Gumo /Ensbona	Base cream DAC	13161119	1
GUMO	Base cream DAC	4271019	1
Gutenberg-Apotheke	Base cream DAC	13378201	1
Gutenberg-Apotheke	Base cream DAC	14035801	1
H. Lamotte	Base cream DAC	8004134007	1
H.Lamotte Oils/AHD	Base cream DAC	6003682012	2
Hageda	Base cream DAC	6018791005	2
Hanry Lamotte oils GmbH	Base cream DAC	6018791002	1
Hanry Lamotte oils GmbH	Base cream DAC	6018791003	1
Hanry Lamotte oils GmbH	Base cream DAC	6018791004	1
Hanry Lamotte oils GmbH	Base cream DAC	8005713009	1
Hanry Lamotte oils GmbH	Base cream DAC	8005713012	1
Hanry Lamotte oils GmbH	Base cream DAC	8007236001	2
Hanry Lamotte oils GmbH	Base cream DAC	8007236003	1
Hanry Lamotte oils GmbH	Base cream DAC	8008385001	2
Hanry lamotte/phoenix	Base cream DAC	5909400	1
Hanry lamotte/phoenix	Base cream DAC	6003682016	2
Hedinger / Noweda	Base cream DAC	17079201	2
Hedinger/AHD	Base cream DAC	800414005	1
Hedinger/Phoenix	Base cream DAC	7580418	2
Hedinger	Base cream DAC	1309006-01	3
HEDINGER	Base cream DAC	18269501	1
Hedinger	Base cream DAC	281718	1
Henry La Motte/AHD	Base cream DAC	80005713014	1
Henry La Motte/AHD	Base cream DAC	8007236001	1
Henry La Motte/Sana	Base cream DAC	8004996005	1
Henry Lamotte / Fiebig	Base cream DAC	6018791002	3
Henry Lamotte / Kehr / ...	Base cream DAC	8004996005	1
henry Lamotte / Noweda	Base cream DAC	5408000	1
Henry Lamotte / Noweda	Base cream DAC	5909200	1
Henry Lamotte / Noweda	Base cream DAC	8005713004	2
Henry Lamotte / Noweda	Base cream DAC	8005713013	1
Henry Lamotte / Phoenix	Base cream DAC	8005713009	1
Henry Lamotte /AHD	Base cream DAC	5910000	1
Henry Lamotte /AHD	Base cream DAC	6003682017	1
Henry Lamotte /Noveda	Base cream DAC	5909600	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte GmbH/ Now…	Base cream DAC	8004996005	1
Henry Lamotte GMBH/AHD	Base cream DAC	8005713012	1
Henry Lamotte GmbH	Base cream DAC	6018791001	3
Henry Lamotte GmbH	Base cream DAC	6018791003	2
Henry Lamotte GmbH	Base cream DAC	8005713012	1
henry lamotte oils / Al…	Base cream DAC	8004996004	1
henry lamotte oils / Al…	Base cream DAC	8005713004	1
Henry Lamotte Oils / Gehe	Base cream DAC	5407700	1
Henry Lamotte Oils / No…	Base cream DAC	5788200	1
Henry Lamotte Oils / No…	Base cream DAC	5909500	1
Henry Lamotte Oils / No…	Base cream DAC	6002237005	1
Henry Lamotte Oils / Ph…	Base cream DAC	5537000	1
henry lamotte Oils GmbH…	Base cream DAC	8003325005	5
Henry Lamotte Oils GmbH…	Base cream DAC	8003325006	1
Henry Lamotte Oils GMBH…	Base cream DAC	170612BC/6004859002	1
Henry Lamotte Oils GmbH…	Base cream DAC	6018791004	2
Henry Lamotte Oils GmbH…	Base cream DAC	8005713012	2
Henry Lamotte Oils GmbH…	Base cream DAC	8007236001	1
Henry Lamotte Oils GmbH…	Base cream DAC	8007236004	1
Henry Lamotte Oils GmbH…	Base cream DAC	6003682015	2
Henry Lamotte Oils GmbH…	Base cream DAC	6004859003	2
Henry Lamotte Oils GmbH…	Base cream DAC	6004859004	2
Henry Lamotte Oils GmbH…	Base cream DAC	6004859006	2
Henry Lamotte Oils GmbH…	Base cream DAC	8004134005	1
Henry Lamotte Oils GmbH…	Base cream DAC	8004134006	1
Henry Lamotte Oils GmbH…	Base cream DAC	8004134008	1
Henry Lamotte Oils GmbH…	Base cream DAC	8004996003	1
Henry Lamotte Oils GmbH…	Base cream DAC	8004996004	1
Henry Lamotte Oils GmbH…	Base cream DAC	8005713009	1
Henry Lamotte Oils GmbH…	Base cream DAC	5489900	1
Henry Lamotte Oils GmbH…	Base cream DAC	8004134007	2
Henry Lamotte Oils GmbH…	Base cream DAC	6004859002	1
Henry Lamotte Oils GmbH	Base cream DAC		1
Henry Lamotte Oils GMBH	Base cream DAC	170124BC/6003682013	1
Henry Lamotte Oils GmbH	Base cream DAC	5151700	1
Henry Lamotte Oils GmbH	Base cream DAC	5215300	2
Henry Lamotte Oils GmbH	Base cream DAC	5215500	1
Henry Lamotte Oils GmbH	Base cream DAC	5321000	4
Henry Lamotte Oils GmbH	Base cream DAC	5407700	5
Henry Lamotte oils GmbH	Base cream DAC	5490100	1
henry lamotte oils gmbh	Base cream DAC	5537000	1
Henry Lamotte Oils GmbH	Base cream DAC	5537000	12
Henry Lamotte oils GmbH	Base cream DAC	5650600	1
henry lamotte oils gmbh	Base cream DAC	5650900	1
Henry Lamotte oils GmbH	Base cream DAC	5650900	1
Henry Lamotte oils GmbH	Base cream DAC	5651100	1
Henry Lamotte oils GmbH	Base cream DAC	5787800	2
Henry Lamotte Oils GmbH	Base cream DAC	5909400	1
Henry Lamotte Oils GmbH	Base cream DAC	5909600	2
Henry Lamotte Oils GmbH	Base cream DAC	5909700	1
Henry Lamotte Oils GmbH	Base cream DAC	6002237002	5
Henry Lamotte Oils GmbH	Base cream DAC	6002237003	2
Henry Lamotte Oils Gmbh	Base cream DAC	6002237004	1
Henry Lamotte Oils GmbH	Base cream DAC	6003682004	1
Henry Lamotte Oils GmbH	Base cream DAC	6003682015	3
Henry Lamotte Oils GmbH	Base cream DAC	600382004	1
henry lamotte oils gmbh	Base cream DAC	6004859002	1
Henry Lamotte oils GmbH	Base cream DAC	6004859004	1
HENRY LAMOTTE OILS GmbH	Base cream DAC	6004859004	1
Henry Lamotte oils GmbH	Base cream DAC	6004859005	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
HENRY LAMOTTE OILS GmbH	Base cream DAC	6018791001	2
HENRY LAMOTTE OILS GmbH	Base cream DAC	6018791003	1
Henry Lamotte oils GmbH	Base cream DAC	60260	1
Henry Lamotte Oils GmbH	Base cream DAC	80003325007	1
HENRY LAMOTTE OILS GmbH	Base cream DAC	8003325003	1
HENRY LAMOTTE OILS GmbH	Base cream DAC	8003325006	2
Henry Lamotte Oils GmbH	Base cream DAC	8003325007	3
Henry Lamotte oils GmbH	Base cream DAC	8004134004	1
Henry Lamotte Oils GmbH	Base cream DAC	8004134004	2
HENRY LAMOTTE OILS GmbH	Base cream DAC	8004134004	3
Henry Lamotte Oils GmbH	Base cream DAC	8004134005	5
Henry Lamotte Oils GmbH	Base cream DAC	8004134006	3
Henry Lamotte Oils GmbH	Base cream DAC	8004134007	4
Henry Lamotte Oils GmbH	Base cream DAC	8004134008	2
HENRY LAMOTTE OILS GmbH	Base cream DAC	8004134008	3
Henry Lamotte Oils GmbH	Base cream DAC	8004996001	3
Henry Lamotte oils GmbH	Base cream DAC	8004996003	1
Henry Lamotte Oils GmbH	Base cream DAC	8004996003	2
Henry Lamotte Oils GmbH	Base cream DAC	8004996004	1
HENRY LAMOTTE OILS GmbH	Base cream DAC	8004996004	2
Henry Lamotte Oils GmbH	Base cream DAC	8004996005	1
HENRY LAMOTTE OILS GmbH	Base cream DAC	8004996005	1
Henry Lamotte Oils GmbH	Base cream DAC	8005713009	1
HENRY LAMOTTE OILS GmbH	Base cream DAC	8005713012	1
Henry Lamotte Oils GmbH	Base cream DAC	8005713013	3
HENRY LAMOTTE OILS GmbH	Base cream DAC	8005713014	1
Henry Lamotte Oils GmbH	Base cream DAC	8007236001	1
HENRY LAMOTTE OILS GmbH	Base cream DAC	8007236001	1
Henry Lamotte Oils GmbH	Base cream DAC	8007236002	1
HENRY LAMOTTE OILS GmbH	Base cream DAC	8007236002	1
Henry Lamotte Oils GmbH	Base cream DAC	8007236004	1
Henry Lamotte oils GmbH	Base cream DAC	8008385001	1
HENRY LAMOTTE OILS GmbH	Base cream DAC	8008385001	1
Henry Lamotte oils GmbH	Base cream DAC	8008385002	1
Henry Lamotte Oils GmbH	Base cream DAC	8008385002	1
Henry Lamotte oils GmbH	Base cream DAC	8008386002	1
Henry Lamotte Oils/ Gehe	Base cream DAC	5321000	2
Henry Lamotte Oils/ San...	Base cream DAC	5909700	1
Henry Lamotte Oils/Noweda	Base cream DAC	6018791005	1
Henry Lamotte Oils/Noweda	Base cream DAC	6018791006	1
Henry Lamotte Oils/Noweda	Base cream DAC	8005713003	3
Henry Lamotte Oils/Noweda	Base cream DAC	8005713008	5
Henry Lamotte Oils/Noweda	Base cream DAC	8005713011	1
Henry Lamotte Oils/Phönix	Base cream DAC	5788700	2
Henry Lamotte Oils/Sana...	Base cream DAC	5650600	1
Henry Lamotte Oils	Base cream DAC	5215600	1
Henry Lamotte Oils	Base cream DAC	5321200	1
Henry Lamotte Oils	Base cream DAC	5322400	1
Henry Lamotte Oils	Base cream DAC	5407900	1
Henry Lamotte Oils	Base cream DAC	6002237005	2
Henry Lamotte Oils	Base cream DAC	6002237006	1
Henry Lamotte Oils	Base cream DAC	6018791001	1
Henry Lamotte Oils	Base cream DAC	60260	1
Henry Lamotte Oils	Base cream DAC	8003325010	1
Henry Lamotte Oils	Base cream DAC	8004996002	1
Henry Lamotte Oils	Base cream DAC	8004996004	1
Henry Lamotte Oils	Base cream DAC	8004996005	1
Henry Lamotte Oils	Base cream DAC	8005713011	1
Henry Lamotte Olis GmbH	Base cream DAC	5651100	1
Henry Lamotte Sanacorp	Base cream DAC	6004859001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Sanacorp	Base cream DAC	8003325004	2
Henry Lamotte Sanacorp	Base cream DAC	8004996003	1
Henry Lamotte/ Phönix	Base cream DAC	8004134005	2
Henry Lamotte/ AHDE 02....	Base cream DAC	5537000	1
Henry Lamotte/ Alliance	Base cream DAC	6004859002	1
Henry Lamotte/ Alliance	Base cream DAC	8004996002	1
Henry Lamotte/ Alliance	Base cream DAC	8005713009	1
Henry Lamotte/ Gehe	Base cream DAC	8003325004	1
Henry Lamotte/ Gehe	Base cream DAC	8004134005	1
Henry Lamotte/ Gehe	Base cream DAC	8004996002	1
Henry Lamotte/ Gehe	Base cream DAC	8004996005	1
Henry Lamotte/ Gehe	Base cream DAC	8005713013	2
Henry Lamotte/ Kehr	Base cream DAC	8004134005	2
Henry Lamotte/ Kehr	Base cream DAC	8004134008	1
Henry Lamotte/ Kehr	Base cream DAC	8005713014	2
Henry Lamotte/ Krieger	Base cream DAC	6003682004	1
Henry Lamotte/ Krieger	Base cream DAC	6003682013	2
Henry Lamotte/ Noweda	Base cream DAC	532220	1
Henry Lamotte/ Noweda	Base cream DAC	5537000	2
Henry Lamotte/ Noweda	Base cream DAC	5537300	4
Henry Lamotte/ Noweda	Base cream DAC	5909300	1
Henry lamotte/ Noweda	Base cream DAC	8007236006	2
Henry Lamotte/ Phönix	Base cream DAC	8003325003	1
Henry Lamotte/ VDL	Base cream DAC	9003682014	1
Henry Lamotte/AHD	Base cream DAC	5909700	2
Henry Lamotte/AHD	Base cream DAC	5909900	1
Henry Lamotte/AHD	Base cream DAC	6004859003	2
Henry Lamotte/AHD	Base cream DAC	6018791005	2
Henry Lamotte/AHD	Base cream DAC	8003325006	1
Henry Lamotte/AHD	Base cream DAC	8003325007	2
Henry lamotte/AHD	Base cream DAC	8003325011	1
Henry lamotte/AHD	Base cream DAC	8004134011	1
Henry Lamotte/AHD	Base cream DAC	8004996004	2
Henry Lamotte/AHD	Base cream DAC	8005713008	3
Henry Lamotte/AHD	Base cream DAC	8005713011	1
Henry Lamotte/AHD	Base cream DAC	8005713014	3
Henry Lamotte/Alliance	Base cream DAC	8007236002	1
Henry Lamotte/Alliance	Base cream DAC	8007236003	1
Henry Lamotte/Alliance	Base cream DAC	8007236004	1
Henry Lamotte/Alliance	Base cream DAC	8008385001	3
Henry Lamotte/Alliance	Base cream DAC	8008386001	1
Henry Lamotte/Anzag	Base cream DAC	5289200	1
Henry Lamotte/Anzag	Base cream DAC	5408300	2
Henry Lamotte/Anzag	Base cream DAC	5537600	2
Henry Lamotte/Anzag	Base cream DAC	5651100	1
Henry Lamotte/Anzag	Base cream DAC	5651200	1
Henry Lamotte/Anzag	Base cream DAC	5788600	1
Henry Lamotte/Anzag	Base cream DAC	5788700	3
Henry Lamotte/Anzag	Base cream DAC	5909500	1
Henry Lamotte/Anzag	Base cream DAC	5909800	1
Henry Lamotte/Anzag	Base cream DAC	6002237009	2
Henry Lamotte/Anzag	Base cream DAC	8004996002	1
Henry Lamotte/Gehe	Base cream DAC	6018791002	1
Henry Lamotte/Gehe	Base cream DAC	8004996005	1
Henry Lamotte/Gehe	Base cream DAC	8005713009	1
Henry Lamotte/Gehe	Base cream DAC	8005713013	1
Henry Lamotte/Noewda	Base cream DAC	6004859001	1
Henry Lamotte/OG	Base cream DAC	6002237002	1
Henry Lamotte/OG	Base cream DAC	6003682013	1
Henry lamotte/Phoenix	Base cream DAC	8003325005	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/Phoenix	Base cream DAC	8007236006	1
Henry Lamotte/Phönix	Base cream DAC	6004860002	1
Henry Lamotte/Sanacorp	Base cream DAC	13140001	1
Henry Lamotte	Base cream DAC	5100000	1
Henry Lamotte	Base cream DAC	5163400	1
Henry Lamotte	Base cream DAC	5215400	1
Henry Lamotte	Base cream DAC	5289000	1
Henry Lamotte	Base cream DAC	5321000	1
Henry Lamotte	Base cream DAC	5321100	1
Henry Lamotte	Base cream DAC	5322300	3
Henry Lamotte	Base cream DAC	5407700	1
Henry Lamotte	Base cream DAC	5408000	1
Henry Lamotte	Base cream DAC	5408100	1
Henry Lamotte	Base cream DAC	5408300	1
Henry Lamotte	Base cream DAC	5489800	1
Henry Lamotte	Base cream DAC	5489900	2
Henry Lamotte	Base cream DAC	5490100	1
Henry Lamotte	Base cream DAC	5537100	2
Henry Lamotte	Base cream DAC	5650800	1
Henry Lamotte	Base cream DAC	5788200	1
Henry Lamotte	Base cream DAC	5909300	1
Henry Lamotte	Base cream DAC	5909500	1
Henry Lamotte	Base cream DAC	5909600	2
Henry Lamotte	Base cream DAC	6002237001	2
Henry Lamotte	Base cream DAC	6002237002	3
henry lamotte	Base cream DAC	6002237003	1
Henry Lamotte	Base cream DAC	6002237003	3
Henry Lamotte	Base cream DAC	6003682004	2
Henry Lamotte	Base cream DAC	6003682012	1
henry lamotte	Base cream DAC	6003682013	2
Henry Lamotte	Base cream DAC	6003682013	2
Henry Lamotte	Base cream DAC	6003682016	2
henry lamotte	Base cream DAC	6004859001	2
Henry Lamotte	Base cream DAC	6004859001	1
Henry Lamotte	Base cream DAC	6004859003	2
henry lamotte	Base cream DAC	6004859005	1
Henry Lamotte	Base cream DAC	6004859005	3
Henry Lamotte	Base cream DAC	6004859006	3
Henry Lamotte	Base cream DAC	6018791001	2
henry lamotte	Base cream DAC	8003325003	2
Henry Lamotte	Base cream DAC	8003325003	1
Henry Lamotte	Base cream DAC	8003325005	6
henry lamotte	Base cream DAC	8003325006	1
Henry Lamotte	Base cream DAC	8003325007	1
Henry Lamotte	Base cream DAC	8003325010	1
Henry Lamotte	Base cream DAC	8004134005	5
Henry Lamotte	Base cream DAC	8004134006	2
Henry Lamotte	Base cream DAC	8004134007	4
Henry Lamotte	Base cream DAC	8004996001	3
Henry Lamotte	Base cream DAC	8004996002	4
Henry Lamotte	Base cream DAC	8004996004	1
Henry Lamotte	Base cream DAC	8004996005	5
HENRY LAMOTTE	Base cream DAC	8005713004	2
Henry Lamotte	Base cream DAC	8005713005	1
henry lamotte	Base cream DAC	8005713009	1
Henry Lamotte	Base cream DAC	8005713009	3
Henry Lamotte	Base cream DAC	8005713013	1
Henry Lamotte	Base cream DAC	8007236003	1
Henry Lamotte	Base cream DAC	8007236005	1
Henry Lamotte	Base cream DAC	8007236007	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte	Base cream DAC	8008385001	1
Henry/Noweda	Base cream DAC	6002237004	1
Henry/Noweda	Base cream DAC	6002237006	1
Henry/Phoenix	Base cream DAC	5909200	1
Henry/Sanacorp	Base cream DAC	600223705	1
Henry/Sanacorp	Base cream DAC	81/AKD16	1
HENRYLAMOTTE/Gehe	Base cream DAC	5408000	1
HenryLamotteGmbH/Noweda	Base cream DAC	5650800	1
Hepart	Base cream DAC	18165801	2
Herstellung	Base cream DAC	13173601	1
Hirsch	Base cream DAC	1210054-01	1
Holdermann	Base cream DAC	280078	1
Ichthyol / Gehe	Base cream DAC	14A10-T06	1
Ichthyol	Base cream DAC	18165401	1
Ichthyol	Base cream DAC	6004860002	1
Ichthyol-Gesellschaft C...	Base cream DAC	15040701	1
Ichthyol-Gesellschaft	Base cream DAC	16232001	1
Ichthyol-Gesellschaft	Base cream DAC	16238001	1
ichtyol	Base cream DAC	17266801	1
Ichtyol	Base cream DAC	5407700	1
Infecto/Phönix	Base cream DAC	12191901	1
Infectopharm/Phönix	Base cream DAC	18192901	1
Jenne 20.11.21, 8,06EUR	Base cream DAC	211125	1
Jenne	Base cream DAC	17267701	1
Jenne	Base cream DAC	18085202	1
Jenne	Base cream DAC	18126301	1
Jenne	Base cream DAC	18138101	1
Jenne	Base cream DAC	18166301	1
Jenne	Base cream DAC	18232501	2
Jenne	Base cream DAC	18G13-Tro-058076	1
Jenne	Base cream DAC	21001251001	1
KEHR / Beyvers GmbH	Base cream DAC	71112PML01	1
Kehr 04.09.2020	Base cream DAC	800571314	1
Kehr	Base cream DAC	17000200	1
Kehr	Base cream DAC	17000897	1
Kehr	Base cream DAC	307958	1
Kehr	Base cream DAC	45950718	1
Kehr	Base cream DAC	6500218	1
Klenk	Base cream DAC	1205004-01	1
Klosterring	Base cream DAC	17225901	1
Klosterring	Base cream DAC	17229201	1
Klosterring	Base cream DAC	18269001	1
Kögl	Base cream DAC	1800403	2
Kögl	Base cream DAC	1801872	2
kögl	Base cream DAC	1900812	1
Kögl	Base cream DAC	329110160517	1
Kögl	Base cream DAC	329110164116	1
Kögl	Base cream DAC	35402171017	1
Kögl	Base cream DAC	35402171317	1
KOKO Gmbh	Base cream DAC	18269401	1
Krieger/ Henry Lamotte	Base cream DAC	6003682016	1
Krieger/ Henry Lamotte	Base cream DAC	6004859003	1
Krieger/ Henry Lamotte	Base cream DAC	6004859006	1
Krieger/ Henry Lamotte	Base cream DAC	8003325005	2
Krieger/ Henry Lamotte	Base cream DAC	8003325006	2
Krieger/ Henry Lamotte	Base cream DAC	8004134006	1
Krieger/Hedinger	Base cream DAC	18272301	1
Krieger	Base cream DAC	12339301	1
Krieger	Base cream DAC	86470517	3
L10	Base cream DAC	18269201	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
L12	Base cream DAC	16350301	1
L12	Base cream DAC	17006701	1
L12	Base cream DAC	17100501	1
L12	Base cream DAC	17155601	1
L12	Base cream DAC	18126301	2
Lamotte / AHC	Base cream DAC	6004859004	1
Lamotte / AHC	Base cream DAC	8003325007	1
Lamotte / AHC	Base cream DAC	8004134008	1
Lamotte / AHC	Base cream DAC	8007236006	1
Lamotte / AHD	Base cream DAC	6002237001	1
Lamotte / Anzag	Base cream DAC	5408000	1
Lamotte / Anzag	Base cream DAC	5408100	1
Lamotte / Anzag	Base cream DAC	5408200	1
Lamotte / Noweda	Base cream DAC	6004859002	1
Lamotte / Noweda	Base cream DAC	6004859003	1
Lamotte / Noweda	Base cream DAC	6004859004	1
Lamotte / Noweda	Base cream DAC	6004859006	1
Lamotte / Noweda	Base cream DAC	8003325003	1
Lamotte / Noweda	Base cream DAC	8003325004	2
Lamotte / Noweda	Base cream DAC	8003325007	1
Lamotte / Phoenix	Base cream DAC	6018791001	2
Lamotte / Phoenix	Base cream DAC	6018791002	4
Lamotte / Phoenix	Base cream DAC	8004134005	1
Lamotte / Phoenix	Base cream DAC	8004134007	1
Lamotte / Phoenix	Base cream DAC	8004996001	1
Lamotte / Phoenix	Base cream DAC	8004996003	1
Lamotte / Phoenix	Base cream DAC	8004996004	3
Lamotte / Phoenix	Base cream DAC	8005713013	5
Lamotte / Phoenix	Base cream DAC	8007236001	3
Lamotte /Noweda	Base cream DAC	6002237002	1
Lamotte /Sanacorp	Base cream DAC	18193101	1
Lamotte 001	Base cream DAC	5321000	1
Lamotte 001	Base cream DAC	5322400	1
Lamotte/ AHDE	Base cream DAC	5407700	1
Lamotte/ Anzag	Base cream DAC	6003682005	1
Lamotte/ Noweda	Base cream DAC	5407900	1
Lamotte/ Noweda	Base cream DAC	5537300	1
Lamotte/ Noweda	Base cream DAC	8003325004	1
Lamotte/ Noweda	Base cream DAC	80041340060	1
Lamotte/ Noweda	Base cream DAC	8004996001	1
Lamotte/ Noweda	Base cream DAC	8004996002	1
Lamotte/ Noweda	Base cream DAC	8005713009	1
Lamotte/ Noweda	Base cream DAC	8005713013	1
Lamotte/ Phönix	Base cream DAC	8005713009	2
Lamotte//AHD	Base cream DAC	5787900	1
Lamotte//AHD	Base cream DAC	6002237004	1
Lamotte/ADG	Base cream DAC	8004996006	3
Lamotte/AHC	Base cream DAC	6018791006	2
Lamotte/AHD	Base cream DAC	5407900	1
Lamotte/AHD	Base cream DAC	5651300	1
Lamotte/AHD	Base cream DAC	589900	1
Lamotte/AHD	Base cream DAC	5909600	1
Lamotte/AHD	Base cream DAC	5909900	1
Lamotte/AHD	Base cream DAC	6002237006	1
Lamotte/AHD	Base cream DAC	6002237009	1
Lamotte/AHD	Base cream DAC	600237004	1
Lamotte/AHD	Base cream DAC	6003682005	1
Lamotte/AHD	Base cream DAC	6003682012	1
Lamotte/AHD	Base cream DAC	6003682013	1
Lamotte/AHD	Base cream DAC	6003682016	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/AHD	Base cream DAC	6004859003	1
Lamotte/AHD	Base cream DAC	6004859004	1
Lamotte/AHD	Base cream DAC	6004860003	1
Lamotte/AHD	Base cream DAC	8003325008	1
Lamotte/AHD	Base cream DAC	8004134005	1
Lamotte/AHD	Base cream DAC	8004134008	1
Lamotte/AHD	Base cream DAC	8004996002	1
Lamotte/AHD	Base cream DAC	8004996004	1
Lamotte/AHD	Base cream DAC	8004996006	1
Lamotte/AHD	Base cream DAC	8004996007	1
Lamotte/AHD	Base cream DAC	8004996008	2
Lamotte/AHD	Base cream DAC	80057	1
Lamotte/Alliance 08.02....	Base cream DAC	8008386001	1
Lamotte/Alliance 14.12....	Base cream DAC	8008385002	1
Lamotte/Alliance 25.03....	Base cream DAC	8008386002	1
Lamotte/Alliance	Base cream DAC	5537600	1
Lamotte/Alliance	Base cream DAC	5651200	1
Lamotte/Alliance	Base cream DAC	5651300	1
Lamotte/Alliance	Base cream DAC	8004134008	1
Lamotte/Alliance	Base cream DAC	8004996001	1
Lamotte/Anzag	Base cream DAC	5408100	1
Lamotte/Anzag	Base cream DAC	5651100	1
Lamotte/ANZAG	Base cream DAC	6002237008	1
Lamotte/Anzag	Base cream DAC	6003682004	1
Lamotte/Anzag	Base cream DAC	8003325003	1
Lamotte/Anzag	Base cream DAC	8003325007	1
Lamotte/Anzag	Base cream DAC	8004996005	1
Lamotte/Anzag	Base cream DAC	8005713011	1
Lamotte/Gehe	Base cream DAC	6002237002	1
Lamotte/Gehe	Base cream DAC	6018791004	1
Lamotte/Gehe	Base cream DAC	8004996005	1
Lamotte/Gehe	Base cream DAC	8005713014	1
Lamotte/Gehe	Base cream DAC	8007236002	2
lamotte/Kehr	Base cream DAC	8004134008	1
Lamotte/Noweda	Base cream DAC	5909600	1
Lamotte/Noweda	Base cream DAC	6002237001	1
Lamotte/Noweda	Base cream DAC	6003682016	1
Lamotte/Noweda	Base cream DAC	8003325007	1
Lamotte/Noweda	Base cream DAC	8003325010	1
Lamotte/Noweda	Base cream DAC	8004134004	1
Lamotte/Noweda	Base cream DAC	8004134006	1
Lamotte/Noweda	Base cream DAC	8004134007	1
Lamotte/Noweda	Base cream DAC	8004134008	1
Lamotte/Noweda	Base cream DAC	8004996001	1
Lamotte/Noweda	Base cream DAC	8004996005	2
Lamotte/Noweda	Base cream DAC	8005713004	1
Lamotte/Noweda	Base cream DAC	8005713009	2
Lamotte/Otto	Base cream DAC	5215800	2
Lamotte/Otto	Base cream DAC	5321000	1
Lamotte/P	Base cream DAC	8003325003	1
Lamotte/Phoenix	Base cream DAC	5322200	1
Lamotte/Phoenix	Base cream DAC	8003325005	1
Lamotte/Phoenix	Base cream DAC	8004996002	2
Lamotte/Phönix	Base cream DAC	5909600	1
Lamotte/Phönix	Base cream DAC	6003682016	1
Lamotte/Phönix	Base cream DAC	6018791006	2
Lamotte/Phönix	Base cream DAC	8004134009	3
Lamotte/Phönix	Base cream DAC	8004134011	1
Lamotte/Phönix	Base cream DAC	8004996007	1
Lamotte/Phönix	Base cream DAC	8005713008	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Phönix	Base cream DAC	8005713011	1
lamotte/sanacorb	Base cream DAC	5651000	2
lamotte/sanacorb	Base cream DAC	5787800	1
Lamotte/Sanacorp	Base cream DAC	5788700	2
Lamotte/Sanacorp	Base cream DAC	6002237009	1
Lamotte/Sanacorp	Base cream DAC	6002237010	1
Lamotte/Sanacorp	Base cream DAC	6003682005	1
Lamotte	Base cream DAC	16132001	1
Lamotte	Base cream DAC	2x8004996004	1
Lamotte	Base cream DAC	5099700	1
Lamotte	Base cream DAC	5099800	1
Lamotte	Base cream DAC	5163400	1
Lamotte	Base cream DAC	5321200	1
Lamotte	Base cream DAC	5322200	1
Lamotte	Base cream DAC	5322300	1
Lamotte	Base cream DAC	5408000	1
Lamotte	Base cream DAC	5489900	1
Lamotte	Base cream DAC	5537000	1
lamotte	Base cream DAC	5537300	3
Lamotte	Base cream DAC	5537300	1
Lamotte	Base cream DAC	5650700	3
Lamotte	Base cream DAC	5651000	1
Lamotte	Base cream DAC	5651100	1
Lamotte	Base cream DAC	5785800	1
Lamotte	Base cream DAC	5787800	1
Lamotte	Base cream DAC	5787900	2
Lamotte	Base cream DAC	5788000	1
Lamotte	Base cream DAC	5788200	2
Lamotte	Base cream DAC	5909300	3
Lamotte	Base cream DAC	5909600	2
Lamotte	Base cream DAC	59096006002237002	1
Lamotte	Base cream DAC	590990	1
Lamotte	Base cream DAC	60004860001	1
Lamotte	Base cream DAC	6002237002	1
Lamotte	Base cream DAC	6002237005	1
Lamotte	Base cream DAC	6003682018	1
Lamotte	Base cream DAC	6004859002	2
Lamotte	Base cream DAC	6004859003	1
Lamotte	Base cream DAC	6004859006	1
Lamotte	Base cream DAC	6004860001	1
lamotte	Base cream DAC	6018791002	1
Lamotte	Base cream DAC	60260	1
Lamotte	Base cream DAC	8002875008	1
Lamotte	Base cream DAC	8003325005	1
Lamotte	Base cream DAC	8003325006	2
Lamotte	Base cream DAC	8004134006	1
Lamotte	Base cream DAC	8004134008	2
Lamotte	Base cream DAC	8004996006	1
Lamotte	Base cream DAC	8004996008	1
Lamotte	Base cream DAC	8005713003	2
Lamotte	Base cream DAC	8005713004	1
Lamotte	Base cream DAC	8005713014	1
Lamotte	Base cream DAC	8007236007	2
Lamotte-oils/Noweda	Base cream DAC	8003325004	1
Leyh Pharma Gmbh	Base cream DAC	27290917	3
Medphano Arzneimittel G...	Base cream DAC	6500119	1
Medphano Phönix	Base cream DAC	6500117	1
Medphano/phoenix	Base cream DAC	6500117	3
Medphano/Phoenix	Base cream DAC	6500118	2
Medphano/Phoenix	Base cream DAC	6500218	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
medphano/Sanacorp	Base cream DAC	6500118	2
medphano/Sanacorp	Base cream DAC	6500119	3
medphano/Sanacorp	Base cream DAC	6500218	4
medphano	Base cream DAC	6500115	5
mephano	Base cream DAC	6500115	1
Midas Phönix	Base cream DAC	308803	1
Midas	Base cream DAC	16261501	1
Midas	Base cream DAC	17000905	1
Midas	Base cream DAC	17029201	1
Midas	Base cream DAC	17090901	1
Midas	Base cream DAC	17129901	1
Midas	Base cream DAC	17147301	1
Midas	Base cream DAC	17225002	1
Midas	Base cream DAC	17225201	1
Midas	Base cream DAC	17240401	1
Midas	Base cream DAC	17266401	1
Midas	Base cream DAC	17267001	1
Midas	Base cream DAC	17351901	2
Midas	Base cream DAC	18000966	1
Midas	Base cream DAC	18001972	1
Midas	Base cream DAC	18003935	3
Midas	Base cream DAC	18005746	1
Midas	Base cream DAC	18006777	1
Midas	Base cream DAC	18091102	1
Midas	Base cream DAC	18129301	1
Midas	Base cream DAC	18137801	1
Midas	Base cream DAC	18166401	1
Midas	Base cream DAC	18269401	1
Midas	Base cream DAC	19000939	3
Midas	Base cream DAC	306623	2
Midas	Base cream DAC	310722	1
Midas	Base cream DAC	310755	2
Nachprüfung	Base cream DAC	1118H-01309	1
Nachprüfung	Base cream DAC	123456	1
Nibelungen apotheke	Base cream DAC	200201302	1
Nokun	Base cream DAC	18105402	1
Noweda / Beyvers	Base cream DAC	412/2	1
Noweda 17.10.2014	Base cream DAC	1346001	1
Noweda/ Caesar & Loretz...	Base cream DAC	Caelo	1
Noweda/ Eimermacher	Base cream DAC	50211015	1
Noweda/ Eimermacher	Base cream DAC	55350716	2
Noweda/ Lamotte	Base cream DAC	60036820015	1
Noweda/ Lamotte	Base cream DAC	6004859001	2
Noweda/Beyvers	Base cream DAC	412/3	1
Noweda/Eimermacher	Base cream DAC	47870419	1
Noweda/Eimermacher	Base cream DAC	80340218	1
Noweda/Ensbona	Base cream DAC	222512	1
Noweda/Ensbona	Base cream DAC	24180414	4
Noweda/Ensbona	Base cream DAC	36510319	4
Noweda/Ensbona	Base cream DAC	56590714	5
Noweda/Ensbona	Base cream DAC	57090315	1
Noweda/Ensbona	Base cream DAC	60630519	5
Noweda/Ensbona	Base cream DAC	71940619	6
Noweda/Ensbona	Base cream DAC	8821114	5
Noweda/EuRho 21.12.2020...	Base cream DAC	80610520	2
Noweda/Lamotte	Base cream DAC	6004859006	1
Noweda/Lamotte	Base cream DAC	8003325007	1
Noweda	Base cream DAC	12005601	1
Noweda	Base cream DAC	12263501	1
Noweda	Base cream DAC	12305001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Base cream DAC	12339201	1
Noweda	Base cream DAC	1311004-01	1
Noweda	Base cream DAC	1312037-01	1
Noweda	Base cream DAC	131250001	1
Noweda	Base cream DAC	13139702	1
Noweda	Base cream DAC	13139901	1
Noweda	Base cream DAC	13161119	2
Noweda	Base cream DAC	13198601	2
noweda	Base cream DAC	13347101	1
Noweda	Base cream DAC	13347201	1
Noweda	Base cream DAC	13490119	1
Noweda	Base cream DAC	13510119	1
Noweda	Base cream DAC	14144101	1
Noweda	Base cream DAC	14D08-T08-011709	2
Noweda	Base cream DAC	14F05-T06-012961	2
Noweda	Base cream DAC	1502028-01	2
Noweda	Base cream DAC	1511001-01	1
Noweda	Base cream DAC	15720518	3
Noweda	Base cream DAC	16058801	1
Noweda	Base cream DAC	16350201	1
Noweda	Base cream DAC	16D06-T07-031930	1
Noweda	Base cream DAC	17028801	1
Noweda	Base cream DAC	17097401	4
Noweda	Base cream DAC	17136601	2
Noweda	Base cream DAC	17240201	1
Noweda	Base cream DAC	17267801	1
Noweda	Base cream DAC	17349901	1
Noweda	Base cream DAC	18001	2
Noweda	Base cream DAC	18002	3
Noweda	Base cream DAC	18081702	2
Noweda	Base cream DAC	18126301	1
Noweda	Base cream DAC	18137601	1
Noweda	Base cream DAC	18137801	1
Noweda	Base cream DAC	18166301	1
Noweda	Base cream DAC	18232701	3
Noweda	Base cream DAC	18269001	1
Noweda	Base cream DAC	19001	2
Noweda	Base cream DAC	19002	1
Noweda	Base cream DAC	19003601	3
Noweda	Base cream DAC	19003901	1
Noweda	Base cream DAC	19004715	1
Noweda	Base cream DAC	19005675	1
Noweda	Base cream DAC	19051801	1
Noweda	Base cream DAC	19116801	4
Noweda	Base cream DAC	19116901	1
Noweda	Base cream DAC	19117501	1
Noweda	Base cream DAC	19147801	6
Noweda	Base cream DAC	19148001	1
Noweda	Base cream DAC	19170901	2
Noweda	Base cream DAC	19171001	1
Noweda	Base cream DAC	19174201	1
Noweda	Base cream DAC	19174301	1
Noweda	Base cream DAC	19239001	1
Noweda	Base cream DAC	19239201	1
Noweda	Base cream DAC	19239401	1
Noweda	Base cream DAC	19301701	1
Noweda	Base cream DAC	19D01-T14-065578	1
Noweda	Base cream DAC	20000042001	1
Noweda	Base cream DAC	20000055001	1
Noweda	Base cream DAC	2000068601	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Base cream DAC	20000690001	1
Noweda	Base cream DAC	20002395	1
Noweda	Base cream DAC	20002866001	2
Noweda	Base cream DAC	20002874001	1
Noweda	Base cream DAC	20003188001	1
Noweda	Base cream DAC	20003831001	1
Noweda	Base cream DAC	21001765001	1
Noweda	Base cream DAC	21001770001	1
Noweda	Base cream DAC	21004025003	1
Noweda	Base cream DAC	2981016	1
Noweda	Base cream DAC	3011016	2
Noweda	Base cream DAC	305715	1
Noweda	Base cream DAC	36510319	1
Noweda	Base cream DAC	47880419	4
Noweda	Base cream DAC	4788419	1
Noweda	Base cream DAC	47890419	1
Noweda	Base cream DAC	5100000	1
Noweda	Base cream DAC	51580217	2
Noweda	Base cream DAC	5163300	1
Noweda	Base cream DAC	6004859002	1
Noweda	Base cream DAC	6004859003	1
Noweda	Base cream DAC	6004859004	1
Noweda	Base cream DAC	60620519	2
Noweda	Base cream DAC	70570420	2
Noweda	Base cream DAC	7058042C	1
Noweda	Base cream DAC	71940619	1
Noweda	Base cream DAC	731/3	2
Noweda	Base cream DAC	731/4	2
Noweda	Base cream DAC	76571018	1
Noweda	Base cream DAC	80390719	2
Noweda	Base cream DAC	80400719	3
Noweda	Base cream DAC	87231118	3
Noweda	Base cream DAC	91340916	1
Noweda	Base cream DAC	92080819	1
Noweda	Base cream DAC	93760318	1
Noweda	Base cream DAC	KeineAngabe	1
p w Beyvers	Base cream DAC	640/3	1
P&M Cosmetics GmbH & Co...	Base cream DAC	150317	1
P. W. Beyvers GmbH / No...	Base cream DAC	18002	1
P. W. Beyvers GmbH/Noweda	Base cream DAC	18002	1
P. W. Beyvers GmbH	Base cream DAC	18001	1
P. W. Beyvers GmbH	Base cream DAC	329/2	3
P. W. Beyvers GmbH	Base cream DAC	515/2	1
P. W. Beyvers GmbH	Base cream DAC	640/1	2
P. W. Beyvers GmbH	Base cream DAC	640/3	1
P. W. Beyvers GmbH	Base cream DAC	731/1	2
P. W. Beyvers GmbH	Base cream DAC	731/2	1
P. W. Beyvers GmbH	Base cream DAC	731/3	1
P. W. Beyvers GmbH	Base cream DAC	731/4	2
P. W. Beyvers	Base cream DAC	319/1	1
p.w beyers gmbh,phönix	Base cream DAC		4
P.W Beyver/Noweda	Base cream DAC	731/1	1
P.W Beyvers / Gehe	Base cream DAC	19002	1
P.W Beyvers GmbH/Anzag	Base cream DAC	19004	1
P.W. Beyvers / Anzag	Base cream DAC	340/2	1
P.W. Beyvers / Noweda	Base cream DAC	19001	1
P.W. Beyvers / Noweda	Base cream DAC	19003	1
P.W. Beyvers / Noweda	Base cream DAC	731/3	8
P.W. Beyvers / Noweda	Base cream DAC	731/4	2
P.W. Beyvers GmbH / AHD	Base cream DAC	19002	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
P.W. Beyvers GmbH / Now...	Base cream DAC	18002	1
P.W. Beyvers GmbH / Phö...	Base cream DAC	538/1	2
P.W. Beyvers GmbH/Gehe	Base cream DAC	640/2	1
P.W. Beyvers GmbH	Base cream DAC	19001	1
P.W. Beyvers GmbH	Base cream DAC	19005	2
P.W. Beyvers GmbH	Base cream DAC	515/3	2
P.W. Beyvers GmbH	Base cream DAC	538/1	1
P.W. Beyvers GmbH	Base cream DAC	640/1	1
P.W. Beyvers GmbH	Base cream DAC	731/1	1
P.W. Beyvers GmbH	Base cream DAC	731/3	2
P.W. Beyvers GmbH	Base cream DAC	731/4	1
P.W. Beyvers/ Noweda	Base cream DAC	19001	1
P.W. Beyvers/Gehe	Base cream DAC	731/2	1
P.W. Beyvers/Gehe	Base cream DAC	731/3	1
P.W. Beyvers/Krieger	Base cream DAC	731/4	3
P.W. Beyvers/Noweda	Base cream DAC	18001	3
P.W. Beyvers/Noweda	Base cream DAC	538/1	1
P.W. Beyvers/Phönix	Base cream DAC	19005	2
P.W. Beyvers	Base cream DAC	19002	3
P.W. Beyvers	Base cream DAC	319/2	1
P.W. Beyvers	Base cream DAC	329/1	1
P.W. Beyvers	Base cream DAC	329/2	4
P.W. Beyvers	Base cream DAC	440/3	1
P.W. Beyvers	Base cream DAC	640/2	1
P.W. Beyvers	Base cream DAC	640-1	2
P.W. Beyvers	Base cream DAC	731/2	1
P.W. Beyvers	Base cream DAC	731-2	1
P.W.Bayvers GmbH	Base cream DAC	234-2	1
P.W.Beyvers / Gehe	Base cream DAC		1
P.W.Beyvers	Base cream DAC	229/1	1
P.W.Beyvers GmbH / Noweda	Base cream DAC	515/3	1
P.W.Beyvers Gmbh,Phönix	Base cream DAC	207/2	1
P.W.Beyvers Gmbh,Phönix	Base cream DAC	234/3	2
P.W.Beyvers Gmbh,Phönix	Base cream DAC	329/1	1
P.W.Beyvers Gmbh,Phönix	Base cream DAC	440/1	2
P.W.Beyvers Gmbh,Phönix	Base cream DAC	440/2	1
P.W.Beyvers GmbH/ Sanac...	Base cream DAC	515/2	1
P.W.Beyvers GmbH/Anzag	Base cream DAC	340/2	1
P.W.Beyvers GmbH/Anzag	Base cream DAC	412/2	1
P.W.Beyvers GmbH/GEHE	Base cream DAC	19001	3
P.W.Beyvers GmbH/Noweda	Base cream DAC	19001	2
P.W.Beyvers GmbH/Noweda	Base cream DAC	19002	1
P.W.Beyvers GmbH/Phönix	Base cream DAC	340/2	1
P.W.Beyvers GmbH	Base cream DAC	18001	1
P.W.Beyvers GmbH	Base cream DAC	18002	2
P.W.Beyvers GmbH	Base cream DAC	19003	2
P.W.Beyvers GmbH	Base cream DAC	20000036001	1
P.W.Beyvers GmbH	Base cream DAC	234/3	4
P.W.Beyvers GmbH	Base cream DAC	440/2	1
P.W.Beyvers GmbH	Base cream DAC	440/3	1
P.W.Beyvers GmbH	Base cream DAC	640/2	4
P.W.Beyvers GmbH	Base cream DAC	640/3	3
P.W.Beyvers GmbH	Base cream DAC	731/1	3
P.W.Beyvers/ Noweda	Base cream DAC	19005	2
P.W.Beyvers/Jenne 18.12...	Base cream DAC	340/2	1
P.W.Beyvers	Base cream DAC		1
P.W.Beyvers	Base cream DAC	18001	1
P.W.Beyvers	Base cream DAC	18002	2
P.W.Beyvers	Base cream DAC	19002	2
P.W.Beyvers	Base cream DAC	229/1	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
P.W.Beyvers	Base cream DAC	229/2	1
P.W.Beyvers	Base cream DAC	234/1	1
P.W.Beyvers	Base cream DAC	340/1	1
P.W.Beyvers	Base cream DAC	340/2	3
P.W.Beyvers	Base cream DAC	412/1	2
P.W.Beyvers	Base cream DAC	412/3	1
P.W.Beyvers	Base cream DAC	440/1	1
P.W.Beyvers	Base cream DAC	440/2	1
p.w.beyvers	Base cream DAC	515/2	1
P.W.Beyvers	Base cream DAC	515/3	1
P.W.Beyvers	Base cream DAC	538/1	2
P.W.Beyvers	Base cream DAC	640/1	2
P.W.Beyvers	Base cream DAC	640/2	3
P.W.Beyvers	Base cream DAC	640/3	1
P.W.Beyvers	Base cream DAC	731/1	3
P.W.Beyvers	Base cream DAC	731/2	1
P.W.Beyvers	Base cream DAC	731/3	3
P.W.Beyvers	Base cream DAC	731/4	3
P.W.Beyvers	Base cream DAC	731-1	1
P.W.Peyvers/ Sanacorp	Base cream DAC	18001	2
P.W.Weyers GmbH	Base cream DAC	340/1	1
P.W: Beyvers GmbH	Base cream DAC	18001	1
Pharmachem GmbH / Phönix	Base cream DAC	62560918	1
pharmachem	Base cream DAC	640/2	2
Phoenix 01.04.2019 12,77EUR	Base cream DAC	18005236	1
phoenix 01.10.14	Base cream DAC	14178001	1
PHOENIX 03.03.2014	Base cream DAC	5537200	2
Phoenix 11.02.2019	Base cream DAC	18C19-T17-053948	1
Phoenix 13.11.14	Base cream DAC	14143801	1
Phoenix 13.12.2017	Base cream DAC	310753	1
Phoenix 20.02.15	Base cream DAC	291032	1
Phoenix 20.06.2014	Base cream DAC	14090601	1
Phoenix Cottbus 27.06.17	Base cream DAC	17123901	1
Phoenix Goettin	Base cream DAC	14289601	1
Phoenix/Ensbona	Base cream DAC	40150120	1
Phoenix/Labochemie APOLDA	Base cream DAC	19Hng-T10-070985	1
Phoenix/phagron	Base cream DAC	19G08-T04-069148	1
Phoenix	Base cream DAC	1306002-01	1
Phoenix	Base cream DAC	13151119	1
Phoenix	Base cream DAC	14036001	1
Phoenix	Base cream DAC	15630621	1
Phoenix	Base cream DAC	15710518	1
Phoenix	Base cream DAC	16041301	1
Phoenix	Base cream DAC	16059101	1
Phoenix	Base cream DAC	16102017-BH-A	1
Phoenix	Base cream DAC	16205601	1
Phoenix	Base cream DAC	16349502	1
Phoenix	Base cream DAC	17000923	1
Phoenix	Base cream DAC	17031501	2
Phoenix	Base cream DAC	17121501	1
Phoenix	Base cream DAC	17136301	1
Phoenix	Base cream DAC	17229201	1
Phoenix	Base cream DAC	17243501	1
Phoenix	Base cream DAC	17268301	1
Phoenix	Base cream DAC	1736301	1
Phoenix	Base cream DAC	18005744	1
Phoenix	Base cream DAC	18006776	1
Phoenix	Base cream DAC	18105402	1
phoenix	Base cream DAC	18137201	1
Phoenix	Base cream DAC	18167001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Base cream DAC	18192601	1
Phoenix	Base cream DAC	18211701	2
Phoenix	Base cream DAC	18232601	1
Phoenix	Base cream DAC	18269401	2
Phoenix	Base cream DAC	18269801	1
Phoenix	Base cream DAC	18272301	1
Phoenix	Base cream DAC	18E23-T16-056321	1
Phoenix	Base cream DAC	18E23-T17-056325	2
Phoenix	Base cream DAC	19000952	1
Phoenix	Base cream DAC	19002690	1
Phoenix	Base cream DAC	19003502	6
Phoenix	Base cream DAC	19052601	1
Phoenix	Base cream DAC	19117801	4
Phoenix	Base cream DAC	191352811	1
Phoenix	Base cream DAC	19148001	2
phoenix	Base cream DAC	19171801	1
Phoenix	Base cream DAC	19172601	1
Phoenix	Base cream DAC	19173801	1
Phoenix	Base cream DAC	19240301	1
Phoenix	Base cream DAC	20001106001	1
Phoenix	Base cream DAC	20001860001	1
Phoenix	Base cream DAC	20003190001	1
Phoenix	Base cream DAC	20003288001	2
Phoenix	Base cream DAC	20003469001	1
Phoenix	Base cream DAC	20003470001	1
Phoenix	Base cream DAC	200521206	1
Phoenix	Base cream DAC	200783107	1
Phoenix	Base cream DAC	201083010	1
Phoenix	Base cream DAC	21000813001	2
Phoenix	Base cream DAC	21001250001	2
Phoenix	Base cream DAC	21001257001	1
Phoenix	Base cream DAC	21001891	1
Phoenix	Base cream DAC	21002388001	1
Phoenix	Base cream DAC	23800219	8
Phoenix	Base cream DAC	272091	1
Phoenix	Base cream DAC	272219	2
Phoenix	Base cream DAC	27350917	1
Phoenix	Base cream DAC	275591	1
Phoenix	Base cream DAC	3026	1
Phoenix	Base cream DAC	3037	1
Phoenix	Base cream DAC	3049	1
Phoenix	Base cream DAC	3060	1
Phoenix	Base cream DAC	3082	1
Phoenix	Base cream DAC	3083	1
Phoenix	Base cream DAC	3098	1
Phoenix	Base cream DAC	3123	1
Phoenix	Base cream DAC	3197	1
Phoenix	Base cream DAC	3200	1
Phoenix	Base cream DAC	3232	1
Phoenix	Base cream DAC	3372	1
Phoenix	Base cream DAC	3376	1
Phoenix	Base cream DAC	3380720	1
Phoenix	Base cream DAC	3389	1
Phoenix	Base cream DAC	39600117	1
Phoenix	Base cream DAC	40170120	1
Phoenix	Base cream DAC	45970718	1
Phoenix	Base cream DAC	46711117	2
Phoenix	Base cream DAC	51580217	2
Phoenix	Base cream DAC	5289100	1
Phoenix	Base cream DAC	55360616	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Base cream DAC	5651300	2
Phoenix	Base cream DAC	6018791001	1
Phoenix	Base cream DAC	60610519	9
Phoenix	Base cream DAC	62560918	4
Phoenix	Base cream DAC	72440816	1
Phoenix	Base cream DAC	74410221	1
Phoenix	Base cream DAC	8007236003	1
Phoenix	Base cream DAC	8007236005	1
Phoenix	Base cream DAC	80610520	1
Phoenix	Base cream DAC	87241118	9
Phoenix	Base cream DAC	886220321	1
Phönix 22.11.12	Base cream DAC	272218	1
Phönix 23.01.15	Base cream DAC	14290001	1
Phönix Gotha	Base cream DAC	1502025-01	1
Phönix Gotha	Base cream DAC	18002	2
Phönix Gotha	Base cream DAC	515/1	1
Phönix Gotha	Base cream DAC	515/3	1
Phönix Gotha	Base cream DAC	5215600	2
Phönix Gotha	Base cream DAC	5215800	1
Phönix Gotha	Base cream DAC	5321000	1
Phönix Gotha	Base cream DAC	5322100	1
Phönix Gotha	Base cream DAC	538/1	1
Phönix Gotha	Base cream DAC	5489800	1
Phönix Gotha	Base cream DAC	5537100	1
Phönix Gotha	Base cream DAC	5537300	1
Phönix Gotha	Base cream DAC	5650600	1
Phönix Gotha	Base cream DAC	5650900	1
Phönix Gotha	Base cream DAC	5787900	1
Phönix Gotha	Base cream DAC	5788000	1
Phönix Mvda 3.7.2019	Base cream DAC	19052801	1
Phönix, 28.10.2013	Base cream DAC	279961	1
Phönix, Caesar&Loretz G...	Base cream DAC	19172901	1
Phönix, Caesar&Loretz G...	Base cream DAC	20000585001	1
Phönix/ Fargon	Base cream DAC	17F08-T02-045262	1
Phönix/Eimermacher	Base cream DAC	13510119	1
Phönix/Fagon	Base cream DAC	16231901	1
Phönix	Base cream DAC	1111029-01	1
Phönix	Base cream DAC	125580	1
Phönix	Base cream DAC	13000601	1
Phönix	Base cream DAC	13000701	1
phönix	Base cream DAC	13007101	1
Phönix	Base cream DAC	13007101	1
Phönix	Base cream DAC	13111401	1
Phönix	Base cream DAC	13311801	1
Phönix	Base cream DAC	13E21-T05-003897	1
Phönix	Base cream DAC	14035801	1
Phönix	Base cream DAC	14052901	4
Phönix	Base cream DAC	14053501	1
Phönix	Base cream DAC	14303901	1
Phönix	Base cream DAC	14D08-T02-0002	1
phönix	Base cream DAC	15j13-t03-026895	1
Phönix	Base cream DAC	16260801	1
PHÖNIX	Base cream DAC	16261002	1
phönix	Base cream DAC	16b15-t01-030274	1
phönix	Base cream DAC	16c14-t01-031199	1
phönix	Base cream DAC	16c24t06031494	1
phönix	Base cream DAC	16C24-T06-031494	1
phönix	Base cream DAC	16D06-T06-0311926	1
phönix	Base cream DAC	16F30-T15-034797	1
phönix	Base cream DAC	16j11t02037610	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
phönix	Base cream DAC	16J11-T03-037614	1
Phönix	Base cream DAC	17000200	3
Phönix	Base cream DAC	17014501	1
Phönix	Base cream DAC	17121501	1
Phönix	Base cream DAC	17225201	1
PHÖNIX	Base cream DAC	17230101	1
Phönix	Base cream DAC	17240801	1
Phönix	Base cream DAC	17266401	1
Phönix	Base cream DAC	17267601	1
PHÖNIX	Base cream DAC	17269201	1
Phönix	Base cream DAC	17E11-To7-044186	1
Phönix	Base cream DAC	17f08-t04-045271	1
Phönix	Base cream DAC	18000490	1
Phönix	Base cream DAC	18000966	1
Phönix	Base cream DAC	18001965	1
Phönix	Base cream DAC	18001973	1
Phönix	Base cream DAC	18003102	1
Phönix	Base cream DAC	18005740	2
Phönix	Base cream DAC	18015101	1
PHÖNIX	Base cream DAC	18105402	1
Phönix	Base cream DAC	18129301	1
PHÖNIX	Base cream DAC	18137001	1
Phönix	Base cream DAC	18166602	1
Phönix	Base cream DAC	18166801	1
Phönix	Base cream DAC	18192601	1
Phönix	Base cream DAC	18232401	1
Phönix	Base cream DAC	18232901	1
Phönix	Base cream DAC	18269401	1
Phönix	Base cream DAC	18269501	1
Phönix	Base cream DAC	18272201	1
Phönix	Base cream DAC	18G13-T09-058073	1
PHÖNIX	Base cream DAC	18L20-T12-062936	1
Phönix	Base cream DAC	19000952	1
Phönix	Base cream DAC	19003801	1
Phönix	Base cream DAC	19116801	3
Phönix	Base cream DAC	19147901	1
Phönix	Base cream DAC	19170901	2
phönix	Base cream DAC	19172501	2
Phönix	Base cream DAC	19173701	5
Phönix	Base cream DAC	19174201	1
Phönix	Base cream DAC	19240501	1
Phönix	Base cream DAC	19270501	1
Phönix	Base cream DAC	19d01-t14-065578	1
Phönix	Base cream DAC	20000687001	2
PHÖNIX	Base cream DAC	20000689001	1
Phönix	Base cream DAC	20001006001	1
Phönix	Base cream DAC	20001104001	1
Phönix	Base cream DAC	20001680001	1
PHÖNIX	Base cream DAC	20001862001	1
Phönix	Base cream DAC	20002866001	3
Phönix	Base cream DAC	20002872001	2
Phönix	Base cream DAC	20003288001	2
PHÖNIX	Base cream DAC	20003469001	1
PHÖNIX	Base cream DAC	20003473001	1
Phönix	Base cream DAC	20003536	1
Phönix	Base cream DAC	20004318001	2
Phönix	Base cream DAC	20004328001	2
Phönix	Base cream DAC	20004604	1
Phönix	Base cream DAC	2001851001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Base cream DAC	21001251001	1
Phönix	Base cream DAC	21001776001	1
PHÖNIX	Base cream DAC	21002709001	1
Phönix	Base cream DAC	21003072001	1
Phönix	Base cream DAC	27340917	1
Phönix	Base cream DAC	27350917	1
Phönix	Base cream DAC	278475	1
Phönix	Base cream DAC	29550618	1
Phonix	Base cream DAC	29570618	1
Phönix	Base cream DAC	304357	1
Phönix	Base cream DAC	307963	1
Phönix	Base cream DAC	3142	1
Phönix	Base cream DAC	3151	1
Phönix	Base cream DAC	3155	1
Phönix	Base cream DAC	3170	1
Phönix	Base cream DAC	47890419	1
phönix	Base cream DAC	5408200	1
Phönix	Base cream DAC	55360616	2
Phönix	Base cream DAC	6207	1
Phönix	Base cream DAC	62560918	1
Phönix	Base cream DAC	7550418	1
Phönix	Base cream DAC	79000916	1
Phönix	Base cream DAC	8003325003	1
Phönix	Base cream DAC	8005713014	1
Phönix	Base cream DAC	86470517	1
Phönix_02.04.2019	Base cream DAC	18269701	1
Phytocomm	Base cream DAC	16058801	1
PKH GmbH	Base cream DAC	34567890	1
Pößneck Pharma / Gehe	Base cream DAC	16261101	1
PW Beyves Alliance	Base cream DAC	412/3	1
Raben-Apotheke Mildenau	Base cream DAC	14090601	1
Raben-Apotheke Mildenau	Base cream DAC	14143901	1
Römer apo	Base cream DAC	19170601	1
Römerapo.	Base cream DAC	14/07-T09-015967	1
Röntgen/Ensbona Ferd. E...	Base cream DAC	80340218	1
Röntgen	Base cream DAC	17F08-T02-0455626	1
Röntgen	Base cream DAC	3011016	2
Röntgen	Base cream DAC	40150120	1
Röntgen	Base cream DAC	58641021	1
Röntgen	Base cream DAC	70570420	2
Röntgen	Base cream DAC	731/3	2
Röntgen	Base cream DAC	74420221	1
Röntgen	Base cream DAC	80400719	1
Röntgen	Base cream DAC	87231118	1
Röntgen	Base cream DAC	98770122	1
Ruro/ Röntgen	Base cream DAC	55360616	1
Salderman GmbH+Co.KG	Base cream DAC	161207	1
Sana 03.12.16 EK 8,04EUR	Base cream DAC	16253101	1
Sana 11.02.15 EK 8,05	Base cream DAC	14303801	1
Sana 17.11.14 EK 7,89	Base cream DAC	14232301	1
Sana 19.09.14 EK 7,89	Base cream DAC	14227801	1
Sana 23.03.16 Ek 8,09	Base cream DAC	16055801	1
Sana/Henry Lamotte	Base cream DAC	6002237003	1
Sana	Base cream DAC	18270901	1
Sanacop WE:10.11.17 1kg...	Base cream DAC	17225801	1
Sanacoro W.E:01.03.18 ...	Base cream DAC	17266901	1
sanacoro	Base cream DAC	15357601	1
Sanacorp 16.07.2016	Base cream DAC	1604023-01	1
Sanacorp 03.07.2018 8,...	Base cream DAC	1800970	1
Sanacorp 05.01.15 EK 7,89	Base cream DAC	14290001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp 07.11 Ek.8,04	Base cream DAC	16241001	1
Sanacorp 17.01.20 8,77EUR	Base cream DAC	19004713	1
Sanacorp 22.02.17 EK:8,04	Base cream DAC	16352701	1
Sanacorp 26.01.15 EK 7,89	Base cream DAC	1403801	1
Sanacorp 27.08.2018 8,...	Base cream DAC	18003107	1
Sanacorp 30.03.2017 ek:...	Base cream DAC	17028901	1
Sanacorp 31.07.2014 EK:...	Base cream DAC	14143901	1
Sanacorp W.E:17.03.18 ...	Base cream DAC	17266401	1
Sanacorp WE 12.04.17 -8...	Base cream DAC	17029001	1
Sanacorp WE 20.02.17 E...	Base cream DAC	16350301	1
Sanacorp WE: 24.08.17 ...	Base cream DAC	17155201	1
Sanacorp WE:5.01.18	Base cream DAC	17230001	1
Sanacorp, 8,04EUR, 24.1.17	Base cream DAC	16350101	1
Sanacorp/ Ferd. Eimerma...	Base cream DAC	8821114	2
Sanacorp/Beyvers	Base cream DAC	19002	4
Sanacorp/Beyvers	Base cream DAC	19005	4
Sanacorp/Beyvers	Base cream DAC	640/1	3
Sanacorp/Beyvers	Base cream DAC	731/2	3
Sanacorp/Beyvers	Base cream DAC	731/3	2
Sanacorp/Fargon	Base cream DAC	17K24-T07-050507	1
Sanacorp/Henry Lamotte	Base cream DAC	5909300	1
Sanacorp/Henry Lamotte	Base cream DAC	6002237005	2
Sanacorp	Base cream DAC		2
Sanacorp	Base cream DAC	1202001	3
Sanacorp	Base cream DAC	12191801	1
Sanacorp	Base cream DAC	12262402	1
Sanacorp	Base cream DAC	12262801	1
Sanacorp	Base cream DAC	12262901	1
Sanacorp	Base cream DAC	12263001	1
Sanacorp	Base cream DAC	12289701	1
Sanacorp	Base cream DAC	12304701	1
Sanacorp	Base cream DAC	12304801	1
Sanacorp	Base cream DAC	12304901	2
Sanacorp	Base cream DAC	12339001	1
Sanacorp	Base cream DAC	13000901	1
Sanacorp	Base cream DAC	13007201	1
Sanacorp	Base cream DAC	13007301	1
Sanacorp	Base cream DAC	13082101	1
Sanacorp	Base cream DAC	13082203	1
Sanacorp	Base cream DAC	13139801	1
Sanacorp	Base cream DAC	13158401	2
Sanacorp	Base cream DAC	1317301	1
Sanacorp	Base cream DAC	13173601	1
Sanacorp	Base cream DAC	13173701	1
Sanacorp	Base cream DAC	13187901	1
Sanacorp	Base cream DAC	13188701	1
Sanacorp	Base cream DAC	13188801	1
Sanacorp	Base cream DAC	13199101	3
Sanacorp	Base cream DAC	13250001	1
Sanacorp	Base cream DAC	13310901	1
Sanacorp	Base cream DAC	13311301	2
Sanacorp	Base cream DAC	13311801	1
Sanacorp	Base cream DAC	13312001	1
Sanacorp	Base cream DAC	13312301	1
Sanacorp	Base cream DAC	13347201	1
Sanacorp	Base cream DAC	13377201	1
Sanacorp	Base cream DAC	13380901	1
Sanacorp	Base cream DAC	13381001	1
Sanacorp	Base cream DAC	13381101	1
Sanacorp	Base cream DAC	13490119	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Base cream DAC	14090401	1
Sanacorp	Base cream DAC	14091501	2
Sanacorp	Base cream DAC	14091701	1
Sanacorp	Base cream DAC	14144001	1
Sanacorp	Base cream DAC	14144101	1
Sanacorp	Base cream DAC	14227901	1
Sanacorp	Base cream DAC	14244501	1
Sanacorp	Base cream DAC	14289801	1
Sanacorp	Base cream DAC	14327501	1
Sanacorp	Base cream DAC	15000701	1
Sanacorp	Base cream DAC	15070101	1
Sanacorp	Base cream DAC	1513401	1
Sanacorp	Base cream DAC	15164601	2
Sanacorp	Base cream DAC	15250001	1
Sanacorp	Base cream DAC	15315301	1
Sanacorp	Base cream DAC	15387101	1
Sanacorp	Base cream DAC	15390801	2
Sanacorp	Base cream DAC	16055601	1
Sanacorp	Base cream DAC	16055801	1
Sanacorp	Base cream DAC	16145701	1
Sanacorp	Base cream DAC	16146001	1
Sanacorp	Base cream DAC	16261301	1
Sanacorp	Base cream DAC	16261401	1
Sanacorp	Base cream DAC	170000926	1
Sanacorp	Base cream DAC	17014401	1
Sanacorp	Base cream DAC	17100201	1
Sanacorp	Base cream DAC	17133602	1
Sanacorp	Base cream DAC	17154801	1
Sanacorp	Base cream DAC	17225002	1
Sanacorp	Base cream DAC	17225901	1
Sanacorp	Base cream DAC	17229301	1
Sanacorp	Base cream DAC	17229601	2
Sanacorp	Base cream DAC	17240001	1
Sanacorp	Base cream DAC	17264301	1
Sanacorp	Base cream DAC	17264501	1
Sanacorp	Base cream DAC	17268601	1
Sanacorp	Base cream DAC	17349501	1
Sanacorp	Base cream DAC	18000497	1
Sanacorp	Base cream DAC	18000955	4
Sanacorp	Base cream DAC	18001	1
Sanacorp	Base cream DAC	18003933	1
Sanacorp	Base cream DAC	18003938	2
Sanacorp	Base cream DAC	18005242	1
Sanacorp	Base cream DAC	18037901	1
Sanacorp	Base cream DAC	18055602	1
Sanacorp	Base cream DAC	18105602	1
Sanacorp	Base cream DAC	18137301	2
Sanacorp	Base cream DAC	18138001	1
Sanacorp	Base cream DAC	18138201	1
Sanacorp	Base cream DAC	18138401	1
Sanacorp	Base cream DAC	18165301	1
Sanacorp	Base cream DAC	18165601	1
Sanacorp	Base cream DAC	18165801	1
Sanacorp	Base cream DAC	18166801	1
Sanacorp	Base cream DAC	18167101	2
Sanacorp	Base cream DAC	18192801	1
Sanacorp	Base cream DAC	18193201	1
Sanacorp	Base cream DAC	18232601	2
Sanacorp	Base cream DAC	18269301	1
Sanacorp	Base cream DAC	18269901	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Base cream DAC	18271301	1
Sanacorp	Base cream DAC	18E23-T21-056349	1
Sanacorp	Base cream DAC	19003	1
Sanacorp	Base cream DAC	19003401	1
Sanacorp	Base cream DAC	19003601	1
SANACORP	Base cream DAC	19040101	2
Sanacorp	Base cream DAC	19052601	2
Sanacorp	Base cream DAC	19053001	2
Sanacorp	Base cream DAC	19075901	1
Sanacorp	Base cream DAC	19118101	1
Sanacorp	Base cream DAC	19153801	1
Sanacorp	Base cream DAC	19170301	1
Sanacorp	Base cream DAC	19170401	1
Sanacorp	Base cream DAC	19173301	1
sanacorp	Base cream DAC	19240701	1
Sanacorp	Base cream DAC	19269601	1
Sanacorp	Base cream DAC	19270401	1
Sanacorp	Base cream DAC	19270601	2
Sanacorp	Base cream DAC	20000580001	3
Sanacorp	Base cream DAC	20001103001	1
Sanacorp	Base cream DAC	20001678001	1
Sanacorp	Base cream DAC	20001679001	1
Sanacorp	Base cream DAC	20001852001	1
Sanacorp	Base cream DAC	20001860001	1
Sanacorp	Base cream DAC	20001861001	1
Sanacorp	Base cream DAC	20001865001	1
Sanacorp	Base cream DAC	20003182001	1
Sanacorp	Base cream DAC	20003190001	1
Sanacorp	Base cream DAC	20003195001	1
Sanacorp	Base cream DAC	21002391001	1
Sanacorp	Base cream DAC	21002525001	1
Sanacorp	Base cream DAC	282772	1
Sanacorp	Base cream DAC	283972	2
Sanacorp	Base cream DAC	287942	1
Sanacorp	Base cream DAC	29550618	1
Sanacorp	Base cream DAC	2x310752	1
Sanacorp	Base cream DAC	310752	3
Sanacorp	Base cream DAC	310756	1
Sanacorp	Base cream DAC	47890419	1
sanacorp	Base cream DAC	548900	1
Sanacorp	Base cream DAC	5537000	2
Sanacorp	Base cream DAC	60610519	2
Sanacorp	Base cream DAC	72/AKD2	1
Sanacorp	Base cream DAC	731/4	1
Sanacorp	Base cream DAC	75/AKD4	1
Sanacorp	Base cream DAC	75/AKD6	1
Sanacorp	Base cream DAC	78/AKD12	1
Sanacorp	Base cream DAC	800499605	1
Sanacorp	Base cream DAC	8005713012	1
Sanacorp	Base cream DAC	8005713014	2
Sanacrop	Base cream DAC	19240301	2
Schmittmann GmbH	Base cream DAC	14151901	1
Sonnenberg-Apotheke	Base cream DAC	289663	1
Spangro 2.5.14	Base cream DAC	14091501	1
Spangro 22.01.2019	Base cream DAC	18192701	1
Spangro_07.11.2018	Base cream DAC	18166101	1
Spangropharm	Base cream DAC	14092001	1
Stumpf/Beyvers	Base cream DAC	412/2	1
Stumpf/Beyvers	Base cream DAC	412/3	1
unbekannt	Base cream DAC	53812	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Unisan	Base cream DAC	5537000	5
VDL	Base cream DAC	13380901	1
WE:06.04.2016 Sanacorp	Base cream DAC	16058801	1
WE:16.02.2016	Base cream DAC	15420201	1
WE:Sanacorp 10.08.2016...	Base cream DAC	16152201	1
WE:Sanacorp 31.10.2016 ...	Base cream DAC	16232301	1
WE:Sanacorp26.09.2016 ...	Base cream DAC	16155401	1
WESanacorp 17.12.2016 ...	Base cream DAC	16260801	2

- 275 227 spectra from 1324 *Apo-Ident* customers from a total of 48 802 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Base cream DAC* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Base cream DAC* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	1430	0	67 069
Type B	0	12 617	3	98 613
Type C	0	20 611	1620	275 220

The substance/substance group *Base cream DAC* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.5804 %)
Type B	100.0000 % (> 99.9680 %)	99.9762 % (> 99.9525 %)
Type C	100.0000 % (> 99.6902 %)	92.7129 % (> 92.6994 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Base cream DAC* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Wool alcohol cream SR	10.67	18.87
Eucerin® cum Aqua	11.08	20.36
Non-ionic hydrophil ointment	12.84	12.77
Wool alcohol cream DAB	16.69	25.44
Psorisol base cream Audor®	17.56	–
Lanette® ointment (conserved)	38.71	31.81
Potash soap Ph.Helv.	49.35	–
⋮	⋮	⋮
2-ethylhexyl laurate	>50	109.81
Squalane	>50	152.88

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Base cream DAC* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30923	35200	6.34	15.85
31043	34030	5.53	20.47
31252	31252	0.00	18.43
31474	31474	0.00	17.38
31964	31964	0.00	18.68
32345	35488	6.38	17.45
34030	34030	0.00	20.30
34318	31252	4.21	20.55
34482	34482	0.00	22.75
34485	31252	6.90	12.84
34503	31964	4.44	21.44
34504	34030	7.78	14.66
35174	35174	0.00	17.97
35175	35175	0.00	18.88
35176	35176	0.00	18.39
35178	35178	0.00	17.33
35182	35182	0.00	17.49
35200	35200	0.00	18.13
35424	35424	0.00	19.46
35488	35488	0.00	18.47
35489	35488	2.44	18.96
35490	34030	8.88	17.59
35491	35491	0.00	18.25
35557	35557	0.00	16.27
35559	35559	0.00	22.08
35560	35560	0.00	14.91
35561	35561	0.00	19.80
35562	35562	0.00	13.97

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
35563	35563	0.00	16.68
35906	35906	0.00	22.38
35907	35907	0.00	23.25
35908	35908	0.00	22.46

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Basis Cordes® RK**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30892-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Basis Cordes® RK

Special notes

When selecting the *Basis Cordes® RK* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Basis Cordes® RK	6	4	87

Second-stage model

For differentiation of the substance/substance group *Basis Cordes® RK* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Basis Cordes® RK*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Ichthyol	Basis Cordes® RK	13A038	31078	40	20130301
Ichthyol	Basis Cordes® RK	14A087	31660	60	1511145
Ichthyol	Basis Cordes® RK	19A097	34688	40	20190411
Ichthyol	Basis Cordes® RK	20A0069	34839	40	20200430
Ichthyol	Basis Cordes® RK	21A0126	35751	50	20210706
Ichthyol	Basis Cordes® RK	20A0189	35760	50	20210630

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 280 spectra of 6 reference samples from the substance/substance group *Basis Cordes® RK*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 219 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Basis Cordes® RK*.

- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Ichthyol	Basis Cordes® RK	16A035	32951	40
Ichthyol	Basis Cordes® RK	16A034	33617	40
Ichthyol	Basis Cordes® RK	20A0001	34840	40
Ichthyol	Basis Cordes® RK	22A0080	36376	40

- 111 153 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1608 spectra from 601 *Apo-Ident* customers from 104 batches from the substance/substance group *Basis Cordes® RK*.
- Among them are spectra of independent samples from 87 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Basis Cordes® RK	15A057	1
09.01.19 Spangro	Basis Cordes® RK	18A108	1
200	Basis Cordes® RK	13A206	1
AHD 04.02.15	Basis Cordes® RK	14A087	1
AHD 13.12.16 EK 16,54	Basis Cordes® RK	16A035	1
AHD/ichthyol	Basis Cordes® RK	16A035	1
AHD	Basis Cordes® RK	18A108	1
AHD	Basis Cordes® RK	19A0217	1
AHD17.11.14 EK 16,06	Basis Cordes® RK	13A206	1
Alliance healthcare	Basis Cordes® RK	13A038	1
Alliance Healthcare	Basis Cordes® RK	20A0069	1
Alliance/ICHTHYOL	Basis Cordes® RK	20A0001	1
Anzag/ Ichtyol	Basis Cordes® RK	12A046	2
Anzag/Ichtyol	Basis Cordes® RK	12A046	1
Anzag/Ichtyol-Gesellsch...	Basis Cordes® RK	13A104	1
Anzag/Ichtyol-Gesellsch...	Basis Cordes® RK	14A051	1
Anzag	Basis Cordes® RK	19A097	1
AnzagIchthyol	Basis Cordes® RK	16A035	1
apomix	Basis Cordes® RK	16A034	1
Bombastus	Basis Cordes® RK	13A038	1
Bombastus	Basis Cordes® RK	13A103	1
Bombastus	Basis Cordes® RK	16A035	4
Bombastus	Basis Cordes® RK	16A197	1
Bombastus	Basis Cordes® RK	17A149	2
Caelo	Basis Cordes® RK	12345	1
Caelo	Basis Cordes® RK	13A038	2
Caelo	Basis Cordes® RK	13A103	1
Caelo	Basis Cordes® RK	13A104	1
Caelo	Basis Cordes® RK	13A206	2
Caelo	Basis Cordes® RK	14A205	3
Caelo	Basis Cordes® RK	14D87	1
Caelo	Basis Cordes® RK	15A051	1
Caelo	Basis Cordes® RK	15A057	5
Caelo	Basis Cordes® RK	15A115	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Basis Cordes® RK	15A172	1
Caelo	Basis Cordes® RK	15A194	4
Caelo	Basis Cordes® RK	16A034	11
Caelo	Basis Cordes® RK	16A035	2
Caelo	Basis Cordes® RK	16A125	1
Caelo	Basis Cordes® RK	17A046	7
Caelo	Basis Cordes® RK	17A0462mal250g	1
Caelo	Basis Cordes® RK	17A083	4
Caelo	Basis Cordes® RK	17A149	9
Caelo	Basis Cordes® RK	17A198	1
Caelo	Basis Cordes® RK	17ao46	1
Caelo	Basis Cordes® RK	18A103	1
Caelo	Basis Cordes® RK	18A108	8
Caelo	Basis Cordes® RK	18A182	1
Caelo	Basis Cordes® RK	19A097	1
Caelo	Basis Cordes® RK	4312A-03300	1
Caelo	Basis Cordes® RK	P160/14	1
Cordes / Gehe	Basis Cordes® RK	18A108	1
Cordes, Hermani / Gehe	Basis Cordes® RK	13A206	1
Cordes, Hermani / Gehe	Basis Cordes® RK	15A115	1
Cordes, Hermanni & Co	Basis Cordes® RK	13A206	2
Cordes/AHD	Basis Cordes® RK	13A038	1
Cordes/AHD	Basis Cordes® RK	18A182	2
Cordes/Anzag	Basis Cordes® RK	13A038	2
Cordes/Gehe	Basis Cordes® RK	13A206	1
Cordes/Gehe	Basis Cordes® RK	16A034	1
cordes/noweda	Basis Cordes® RK	10A108	1
Cordes/Noweda	Basis Cordes® RK	16A125	1
CORDES/NOWEDA	Basis Cordes® RK	18A108	1
Cordes/Noweda	Basis Cordes® RK	20A0189	1
Cordes/Phoenix	Basis Cordes® RK	12A114	1
Cordes/Phönix	Basis Cordes® RK	16A035	1
Cordes	Basis Cordes® RK	17A046	1
Cordes	Basis Cordes® RK	18A182	2
Delta Apotheke	Basis Cordes® RK	17A149	1
Dr.Wolff	Basis Cordes® RK	16A035	1
Ebert	Basis Cordes® RK	11A079	1
Euro OTC	Basis Cordes® RK	15A194	2
Fagron	Basis Cordes® RK	13A103	2
Fagron	Basis Cordes® RK	17A046	1
Fagron	Basis Cordes® RK	17A083	1
Fagron	Basis Cordes® RK	18A106	1
Fiebig Ludw./ Ichthyol-...	Basis Cordes® RK	17A149	1
Fiebig	Basis Cordes® RK	17A149	1
Fiebig	Basis Cordes® RK	19A097	1
Gehe - Ichthyol	Basis Cordes® RK	13A039	1
GEHE / ICHTYOL Gesellsc...	Basis Cordes® RK	17A046	1
Gehe amax	Basis Cordes® RK	17A046	1
Gehe/ Ichthyol	Basis Cordes® RK	18A182	1
Gehe/Ichthyol 23.11.16	Basis Cordes® RK	16A035	1
Gehe/Ichthyol Gesellsch...	Basis Cordes® RK	19A0217	3
Gehe/Ichthyol	Basis Cordes® RK	14A087	1
Gehe/Ichthyol	Basis Cordes® RK	16A035	1
Gehe/Ichthyol	Basis Cordes® RK	19A0217	1
Gehe/Ichthyol	Basis Cordes® RK	20A0069	2
Gehe/Ichtyol	Basis Cordes® RK	18A103	1
Gehe	Basis Cordes® RK	12A030	2
Gehe	Basis Cordes® RK	12A045	4
Gehe	Basis Cordes® RK	13A039	1
Gehe	Basis Cordes® RK	13A104	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Basis Cordes® RK	14A087	1
Gehe	Basis Cordes® RK	14A205	1
Gehe	Basis Cordes® RK	15A057	2
Gehe	Basis Cordes® RK	15A115	1
Gehe	Basis Cordes® RK	15A194	1
Gehe	Basis Cordes® RK	16A034	1
Gehe	Basis Cordes® RK	16A197	1
GEHE	Basis Cordes® RK	17A083	1
GEHE	Basis Cordes® RK	17A149	1
Gehe	Basis Cordes® RK	18A182	1
Geibo/Ichthyol 18.12.2020	Basis Cordes® RK	20A0069	1
Geibo/Ichthyol 9.12.2020	Basis Cordes® RK	19A0217	1
Geibo/Ichtyol-Gesellsch...	Basis Cordes® RK	18A182	1
Gumo	Basis Cordes® RK	20A0069	1
Hageda	Basis Cordes® RK	10A108	1
Hageda	Basis Cordes® RK	20A0069	1
Hepart AG	Basis Cordes® RK	17A083	2
Ichhyol Gesellschaft	Basis Cordes® RK	17A083	1
Ichhyol Gesellschaft	Basis Cordes® RK	19A097	1
Ichhyol-Gesellschaft	Basis Cordes® RK	19a0217	1
Ichtgyol	Basis Cordes® RK	15A057	1
Ichthol/ gehe 28.01.19	Basis Cordes® RK	18A108	1
Ichthol/ Gehe	Basis Cordes® RK	20A0001	2
Ichthol/ Noweda	Basis Cordes® RK	16a035	1
ichthol	Basis Cordes® RK	19A097	1
Ichthol-gesellsch.Corde...	Basis Cordes® RK	19A097	1
Ichthol-gesellsch.Corde...	Basis Cordes® RK	20A0069	1
Ichthol-Gesellschaft/Ph...	Basis Cordes® RK	1SA108	1
Ichthy/Ebert	Basis Cordes® RK	19A0217	2
Ichthy/Sanacorp	Basis Cordes® RK	18A108	1
Ichthy/Sanacorp	Basis Cordes® RK	18A182	2
Ichthy/Sanacorp	Basis Cordes® RK	19A097	1
Ichthyl Gesellschaft / ...	Basis Cordes® RK	19A097	1
Ichthyl Gesellschaft / ...	Basis Cordes® RK	21A0126	1
Ichthyl Gesellschaft /P...	Basis Cordes® RK	20A0189	1
ICHTHYL-GESELLSCHAFT Co...	Basis Cordes® RK	19A0217	1
ICHTHYL-GESELLSCHAFT Co...	Basis Cordes® RK	17A149	1
Ichthyo/Phönix	Basis Cordes® RK	16A034	1
Ichthyo/Phönix	Basis Cordes® RK	19A097	1
ICHTHYOL / Sanacorp	Basis Cordes® RK	16A034	1
ICHTHYOL - GESELLSCHAFT...	Basis Cordes® RK	18A108	1
ICHTHYOL - GESELLSCHAFT...	Basis Cordes® RK	19A097	1
Ichthyol - Gesellschaft	Basis Cordes® RK	11A079	1
Ichthyol - Gesellschaft	Basis Cordes® RK	12A046	1
Ichthyol , Noweda	Basis Cordes® RK	13A038	1
Ichthyol / 1	Basis Cordes® RK	18A182	1
ICHTHYOL / 20	Basis Cordes® RK	15A194	1
ICHTHYOL / 20	Basis Cordes® RK	19A0217	1
ICHTHYOL / 20	Basis Cordes® RK	20A0069	1
ICHTHYOL / 30	Basis Cordes® RK	15A057	1
Ichthyol / Alliance	Basis Cordes® RK	18A134	1
Ichthyol / Anzag	Basis Cordes® RK	11A156	1
Ichthyol / Anzag	Basis Cordes® RK	17A083	1
Ichthyol / Anzag	Basis Cordes® RK	19A217	1
Ichthyol / Anzag	Basis Cordes® RK	20A0069	1
Ichthyol / Fiebig	Basis Cordes® RK	20A0189	1
Ichthyol / G	Basis Cordes® RK	15A194	1
Ichthyol / Gehe	Basis Cordes® RK	17A046	5
Ichthyol / Gehe	Basis Cordes® RK	18A108	2
Ichthyol / Gehe	Basis Cordes® RK	19A097	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol / Gehe	Basis Cordes® RK	20A0069	1
Ichthyol / Krieger	Basis Cordes® RK	20A0114	2
Ichthyol / Noweda	Basis Cordes® RK	13A039	1
Ichthyol / Noweda	Basis Cordes® RK	15A057	1
Ichthyol / Noweda	Basis Cordes® RK	16A035	2
Ichthyol / Noweda	Basis Cordes® RK	17A046	1
Ichthyol / Noweda	Basis Cordes® RK	17A198	1
Ichthyol / Noweda	Basis Cordes® RK	19A0217	1
Ichthyol / Noweda	Basis Cordes® RK	20A0001	1
Ichthyol / Noweda	Basis Cordes® RK	20A0114	1
Ichthyol / Phoenix	Basis Cordes® RK	17A149	1
Ichthyol / Phoenix	Basis Cordes® RK	18A182	1
Ichthyol / Phoenix	Basis Cordes® RK	19A0217	1
Ichthyol / Phoenix	Basis Cordes® RK	19A097	1
Ichthyol / Phoenix	Basis Cordes® RK	20A0069	1
Ichthyol / Phoenix	Basis Cordes® RK	21A0126	1
Ichthyol / Phönix	Basis Cordes® RK	16A034	1
Ichthyol / Phönix	Basis Cordes® RK	17A046	1
Ichthyol / Phönix	Basis Cordes® RK	17A083	1
Ichthyol / Phönix	Basis Cordes® RK	19A114	1
Ichthyol / Phönix	Basis Cordes® RK	20A0001	2
Ichthyol / Sanacorp 04...	Basis Cordes® RK	18A182	1
Ichthyol / Sanacorp	Basis Cordes® RK	15A115	1
ichthyol /2	Basis Cordes® RK	18A182	1
ichthyol /2	Basis Cordes® RK	19A0217	1
Ichthyol /Gehe	Basis Cordes® RK	14A087	1
Ichthyol /Gehe	Basis Cordes® RK	18A108	1
Ichthyol /Noweda	Basis Cordes® RK	13A039	2
Ichthyol /Noweda	Basis Cordes® RK	13A103	3
Ichthyol /Noweda	Basis Cordes® RK	16A034	2
Ichthyol /Noweda	Basis Cordes® RK	16A197	1
Ichthyol /Noweda	Basis Cordes® RK	17A083	1
Ichthyol /Noweda	Basis Cordes® RK	18A108	1
Ichthyol /Noweda	Basis Cordes® RK	19A0217	1
Ichthyol /Sanacorp	Basis Cordes® RK	20A0069	1
Ichthyol AG /Alliance H...	Basis Cordes® RK	17A149	1
Ichthyol Cordes/Gehe 16...	Basis Cordes® RK	19A097	1
Ichthyol Cordes/Gehe	Basis Cordes® RK	17A046	1
Ichthyol Cordes	Basis Cordes® RK	13A104	1
Ichthyol G./Gehe	Basis Cordes® RK	10A108	1
Ichthyol Ges. / Gehe	Basis Cordes® RK	15A057	1
Ichthyol Ges. / Gehe	Basis Cordes® RK	15A194	1
Ichthyol Ges.	Basis Cordes® RK	15A057	1
Ichthyol Gesellsch./Now...	Basis Cordes® RK	15A194	1
Ichthyol Gesellsch./Pho...	Basis Cordes® RK	17A083	1
Ichthyol Gesellschaf	Basis Cordes® RK	19A097	1
ichthyol Gesellschaft ...	Basis Cordes® RK	14A205	1
Ichthyol Gesellschaft /...	Basis Cordes® RK	19A097	1
Ichthyol Gesellschaft /...	Basis Cordes® RK	15A115	1
Ichthyol Gesellschaft /...	Basis Cordes® RK	20A0114	1
Ichthyol- Gesellschaft ...	Basis Cordes® RK	19A097	1
ICHTHYOL- Gesellschaft ...	Basis Cordes® RK	18A182	1
ICHTHYOL- Gesellschaft ...	Basis Cordes® RK	19A097	1
Ichthyol Gesellschaft C...	Basis Cordes® RK	12A045	1
Ichthyol Gesellschaft C...	Basis Cordes® RK	12A046	1
Ichthyol- Gesellschaft ...	Basis Cordes® RK	15A057	1
Ichthyol- Gesellschaft ...	Basis Cordes® RK	1BA182	1
Ichthyol Gesellschaft C...	Basis Cordes® RK	17A046	1
Ichthyol- Gesellschaft ...	Basis Cordes® RK	1417E-03300	1
Ichthyol- Gesellschaft ...	Basis Cordes® RK	16A034	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol- Gesellschaft ...	Basis Cordes® RK	17A083	2
Ichthyol Gesellschaft C...	Basis Cordes® RK	19A097	1
Ichthyol Gesellschaft C...	Basis Cordes® RK	15A115	1
Ichthyol Gesellschaft C...	Basis Cordes® RK	14A087	2
Ichthyol Gesellschaft C...	Basis Cordes® RK	15A057	1
Ichthyol- Gesellschaft ...	Basis Cordes® RK	16A035	1
Ichthyol Gesellschaft C...	Basis Cordes® RK	17A149	1
Ichthyol Gesellschaft C...	Basis Cordes® RK	18A108	1
Ichthyol Gesellschaft C...	Basis Cordes® RK	19A0217	1
Ichthyol Gesellschaft- ...	Basis Cordes® RK	14A205	2
Ichthyol Gesellschaft- ...	Basis Cordes® RK	15A194	1
Ichthyol Gesellschaft, ...	Basis Cordes® RK	20A0069	1
Ichthyol Gesellschaft/ ...	Basis Cordes® RK	18A108	1
Ichthyol- Gesellschaft/...	Basis Cordes® RK	18A182	1
Ichthyol Gesellschaft/ ...	Basis Cordes® RK	20A0069	1
Ichthyol Gesellschaft/AHD	Basis Cordes® RK	15A194	1
Ichthyol Gesellschaft/AHD	Basis Cordes® RK	17A083	1
Ichthyol Gesellschaft/AHD	Basis Cordes® RK	18A0108	1
Ichthyol Gesellschaft/AHD	Basis Cordes® RK	18A182	1
Ichthyol Gesellschaft/C...	Basis Cordes® RK	18A108	1
Ichthyol Gesellschaft/G...	Basis Cordes® RK	17A083	1
Ichthyol Gesellschaft/G...	Basis Cordes® RK	17A149	1
Ichthyol Gesellschaft/G...	Basis Cordes® RK	18A108	1
Ichthyol Gesellschaft/G...	Basis Cordes® RK	18A182	1
Ichthyol Gesellschaft/J...	Basis Cordes® RK	16A034	1
Ichthyol Gesellschaft/K...	Basis Cordes® RK	17A149	1
Ichthyol Gesellschaft/N...	Basis Cordes® RK	19a0217	1
Ichthyol Gesellschaft/N...	Basis Cordes® RK	17A046	1
Ichthyol Gesellschaft/N...	Basis Cordes® RK	18A108	1
ICHTHYOL Gesellschaft/N...	Basis Cordes® RK	18A108	1
Ichthyol Gesellschaft/N...	Basis Cordes® RK	18A182	1
Ichthyol Gesellschaft/N...	Basis Cordes® RK	19A0217	1
Ichthyol Gesellschaft/N...	Basis Cordes® RK	19A097	1
Ichthyol Gesellschaft/N...	Basis Cordes® RK	20A0069	1
Ichthyol Gesellschaft/P...	Basis Cordes® RK	19A0217	1
Ichthyol Gesellschaft/P...	Basis Cordes® RK	20A0069	2
Ichthyol Gesellschaft/P...	Basis Cordes® RK	20A0189	1
Ichthyol Gesellschaft/S...	Basis Cordes® RK	17A198	1
Ichthyol Gesellschaft	Basis Cordes® RK	12A045	1
Ichthyol -Gesellschaft	Basis Cordes® RK	13A038	1
Ichthyol Gesellschaft	Basis Cordes® RK	13A039	2
Ichthyol- Gesellschaft	Basis Cordes® RK	13A039	2
Ichthyol Gesellschaft	Basis Cordes® RK	13A104	1
ichthyol Gesellschaft	Basis Cordes® RK	13A206	2
Ichthyol Gesellschaft	Basis Cordes® RK	14A148	1
ichthyol gesellschaft	Basis Cordes® RK	14A205	1
Ichthyol Gesellschaft	Basis Cordes® RK	14A205	1
Ichthyol Gesellschaft	Basis Cordes® RK	15A057	1
Ichthyol Gesellschaft	Basis Cordes® RK	16A035	1
Ichthyol- Gesellschaft	Basis Cordes® RK	16A035	1
Ichthyol Gesellschaft	Basis Cordes® RK	16A197	1
Ichthyol Gesellschaft	Basis Cordes® RK	17A046	3
Ichthyol Gesellschaft	Basis Cordes® RK	17A149	4
Ichthyol Gesellschaft	Basis Cordes® RK	18A134	1
Ichthyol Gesellschaft	Basis Cordes® RK	18A182	1
ICHTHYOL GESELLSCHAFT	Basis Cordes® RK	18A182	1
ichthyol gesellschaft	Basis Cordes® RK	19A0217	1
Ichthyol Gesellschaft	Basis Cordes® RK	19A0217	2
Ichthyol Gesellschaft	Basis Cordes® RK	19A097	2
Ichthyol Gesellschaft	Basis Cordes® RK	20A0001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol Gesellschaft	Basis Cordes® RK	21A0126	1
Ichthyol Geselschaft Co...	Basis Cordes® RK	14A038	1
Ichthyol Geselschaft Co...	Basis Cordes® RK	16A034	1
Ichthyol Geselschaft Co...	Basis Cordes® RK	17A083	1
Ichthyol Geselschaft Co...	Basis Cordes® RK	18A108	1
Ichthyol Geselschaft Co...	Basis Cordes® RK	18A182	1
Ichthyol Geselschaft Co...	Basis Cordes® RK	19A114	1
Ichthyol Gmbh, Phönix	Basis Cordes® RK	13A038	1
Ichthyol GmBH	Basis Cordes® RK	13A038	1
Ichthyol GmbH	Basis Cordes® RK	17A083	3
Ichthyol GmbH	Basis Cordes® RK	17A149	1
Ichthyol Pharma	Basis Cordes® RK	18A108	1
Ichthyol über Phoenix	Basis Cordes® RK	13A206	1
Ichthyol Werke	Basis Cordes® RK	12A114	1
Ichthyol Werke	Basis Cordes® RK	15A115	1
Ichthyol Werke	Basis Cordes® RK	15A194	1
Ichthyol, Noweda	Basis Cordes® RK	13A039	1
Ichthyol,Noweda	Basis Cordes® RK	19A097	2
Ichthyol/ AEP	Basis Cordes® RK	18A108	1
Ichthyol/ Anzag	Basis Cordes® RK	15A115	2
Ichthyol/ Anzag	Basis Cordes® RK	18A108	1
Ichthyol/ Gehe 15.10.19	Basis Cordes® RK	19A097	1
Ichthyol/ Gehe 22.05.19	Basis Cordes® RK	18A182	1
Ichthyol/ Gehe	Basis Cordes® RK	12A045	1
Ichthyol/ Gehe	Basis Cordes® RK	19A0217	1
ichthyol/ Gehe	Basis Cordes® RK	19A097	1
Ichthyol/ Gehe	Basis Cordes® RK	20A0069	1
Ichthyol/ Jenne	Basis Cordes® RK	19A0217	1
Ichthyol/ Jenne	Basis Cordes® RK	19A097	1
Ichthyol/ Krieger	Basis Cordes® RK	15A172	1
Ichthyol/ Krieger	Basis Cordes® RK	16A125	1
Ichthyol/ Krieger	Basis Cordes® RK	16A197	1
Ichthyol/ Krieger	Basis Cordes® RK	17A198	2
Ichthyol/ Krieger	Basis Cordes® RK	18A134	1
Ichthyol/ Krieger	Basis Cordes® RK	20A0114	1
Ichthyol/ Noweda	Basis Cordes® RK	11A079	1
Ichthyol/ Noweda	Basis Cordes® RK	12A046	1
Ichthyol/ Noweda	Basis Cordes® RK	14A087	1
Ichthyol/ Noweda	Basis Cordes® RK	17A083	2
Ichthyol/ Noweda	Basis Cordes® RK	17A149	1
Ichthyol/ Noweda	Basis Cordes® RK	18A108	1
Ichthyol/ Noweda	Basis Cordes® RK	19A0217	1
Ichthyol/ Noweda	Basis Cordes® RK	19A097	2
Ichthyol/ NOWEDA	Basis Cordes® RK	19A097	1
Ichthyol/ Phoenix	Basis Cordes® RK	13A206	1
Ichthyol/ Phoenix	Basis Cordes® RK	14A205	3
Ichthyol/ Phoenix	Basis Cordes® RK	16A034	5
Ichthyol/ Phoenix	Basis Cordes® RK	16A035	1
Ichthyol/ Phönix 13.05.20	Basis Cordes® RK	19A0217	1
Ichthyol/ Phönix	Basis Cordes® RK	15A115	1
Ichthyol/ Sanacorp	Basis Cordes® RK	15A057	1
ichthyol/ Sanacorp	Basis Cordes® RK	17A149	1
ichthyol/ Sanacorp	Basis Cordes® RK	19A097	1
ICHTHYOL/ Sanacorp	Basis Cordes® RK	19A097	1
Ichthyol/ VDL	Basis Cordes® RK	19A0217	1
Ichthyol/AEP	Basis Cordes® RK	18A182	1
Ichthyol/AEP	Basis Cordes® RK	20A0069	1
ichthyol/AHD	Basis Cordes® RK	13A039	1
Ichthyol/AHD	Basis Cordes® RK	14A205	1
Ichthyol/AHD	Basis Cordes® RK	16A035	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/AHD	Basis Cordes® RK	17A149	1
Ichthyol/AHD	Basis Cordes® RK	19A0217	2
Ichthyol/AHD	Basis Cordes® RK	19A097	2
Ichthyol/Alliance healt...	Basis Cordes® RK	13A103	1
Ichthyol/Alliance Healt...	Basis Cordes® RK	14A087	1
Ichthyol/Alliance Healt...	Basis Cordes® RK	15A194	1
Ichthyol/Alliance Healt...	Basis Cordes® RK	17A083	1
Ichthyol/Alliance Healt...	Basis Cordes® RK	20A0001	1
Ichthyol/Alliance Healt...	Basis Cordes® RK	20A0114	2
Ichthyol/Alliance	Basis Cordes® RK	15A115	1
Ichthyol/Alliance	Basis Cordes® RK	16A197	1
Ichthyol/Alliance	Basis Cordes® RK	17A046	3
Ichthyol/Alliance	Basis Cordes® RK	17A193	1
Ichthyol/Alliance	Basis Cordes® RK	18A108	2
Ichthyol/Alliance	Basis Cordes® RK	19A0217	1
Ichthyol/Alliance	Basis Cordes® RK	20A0189	1
Ichthyol/Anzag	Basis Cordes® RK	12A045	1
Ichthyol/Anzag	Basis Cordes® RK	13A206	2
Ichthyol/Anzag	Basis Cordes® RK	15A051	1
Ichthyol/Anzag	Basis Cordes® RK	16A034	1
Ichthyol/Anzag	Basis Cordes® RK	17A083	1
Ichthyol/Anzag	Basis Cordes® RK	17A149	1
Ichthyol/Anzag	Basis Cordes® RK	19A0217	1
Ichthyol/Anzag	Basis Cordes® RK	19A097	2
Ichthyol/E&J	Basis Cordes® RK	17A083	1
Ichthyol/E&J	Basis Cordes® RK	18A108	1
Ichthyol/Ebert	Basis Cordes® RK	12A114	1
Ichthyol/Ebert	Basis Cordes® RK	17A046	1
Ichthyol/Fiebig	Basis Cordes® RK	12A114	1
Ichthyol/Fiebig	Basis Cordes® RK	14A205	2
Ichthyol/Fiebig	Basis Cordes® RK	17A083	3
ichthyol/Fiebig	Basis Cordes® RK	20A0189	1
Ichthyol/Fiebig	Basis Cordes® RK	20A0189	1
Ichthyol/gehe	Basis Cordes® RK	13A039	1
Ichthyol/gehe	Basis Cordes® RK	13A103	1
Ichthyol/Gehe	Basis Cordes® RK	13A103	3
ichthyol/Gehe	Basis Cordes® RK	13A104	2
Ichthyol/Gehe	Basis Cordes® RK	13A206	2
Ichthyol/Gehe	Basis Cordes® RK	14A038	2
Ichthyol/Gehe	Basis Cordes® RK	14A087	2
ICHTHYOL/GEHE	Basis Cordes® RK	14A087	1
Ichthyol/Gehe	Basis Cordes® RK	14A205	1
Ichthyol/Gehe	Basis Cordes® RK	15A057	1
Ichthyol/GEHE	Basis Cordes® RK	15A057	1
Ichthyol/Gehe	Basis Cordes® RK	15A115	5
Ichthyol/Gehe	Basis Cordes® RK	16A034	1
Ichthyol/GEHE	Basis Cordes® RK	16A034	1
Ichthyol/Gehe	Basis Cordes® RK	16A035	2
Ichthyol/Gehe	Basis Cordes® RK	17A046	3
Ichthyol/Gehe	Basis Cordes® RK	17A083	1
Ichthyol/Gehe	Basis Cordes® RK	17A149	1
Ichthyol/Gehe	Basis Cordes® RK	18A108	3
Ichthyol/GEHE	Basis Cordes® RK	18A108	1
Ichthyol/Gehe	Basis Cordes® RK	18A134	3
Ichthyol/Gehe	Basis Cordes® RK	18A182	4
Ichthyol/Gehe	Basis Cordes® RK	19A0217	2
Ichthyol/Gehe	Basis Cordes® RK	19A097	3
Ichthyol/Gehe	Basis Cordes® RK	20A0069	1
Ichthyol/Gehe	Basis Cordes® RK	20A0189	2
ICHTHYOL/Gehe	Basis Cordes® RK	20A0189	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Jenne	Basis Cordes® RK	17A149	1
Ichthyol/Jenne	Basis Cordes® RK	19A0217	1
Ichthyol/Jenne	Basis Cordes® RK	20A0069	1
Ichthyol/Kehr	Basis Cordes® RK	16A197	1
Ichthyol/Kehr	Basis Cordes® RK	17A083	2
Ichthyol/Kehr	Basis Cordes® RK	17A149	2
Ichthyol/Kehr	Basis Cordes® RK	18A182	2
ICHTHYOL/Kehr	Basis Cordes® RK	19A0217	1
Ichthyol/Kehr	Basis Cordes® RK	19A097	2
ICHTHYOL/Kehr	Basis Cordes® RK	21A0126	1
Ichthyol/Krieger	Basis Cordes® RK	14A087	1
Ichthyol/Krieger	Basis Cordes® RK	16A197	1
Ichthyol/Krieger	Basis Cordes® RK	17A198	1
Ichthyol/Krieger	Basis Cordes® RK	18A182	1
ichthyol/Krieger	Basis Cordes® RK	19A114	1
ichthyol/Krieger	Basis Cordes® RK	20A0001	1
Ichthyol/Krieger	Basis Cordes® RK	20A0001	1
Ichthyol/N/17.04.2013/P...	Basis Cordes® RK	12A167	1
Ichthyol/N/PZN:01114881	Basis Cordes® RK	13A104	1
Ichthyol/N	Basis Cordes® RK	15A115	1
Ichthyol/Nowed	Basis Cordes® RK	19A097	1
Ichthyol/Nowed	Basis Cordes® RK	20A0069	1
Ichthyol/Noweda	Basis Cordes® RK	13A103	2
Ichthyol/Noweda	Basis Cordes® RK	13A104	1
Ichthyol/Noweda	Basis Cordes® RK	14A087	2
Ichthyol/Noweda	Basis Cordes® RK	15A057	5
Ichthyol/Noweda	Basis Cordes® RK	15a115	1
Ichthyol/Noweda	Basis Cordes® RK	15a194	1
Ichthyol/Noweda	Basis Cordes® RK	15A194	3
ichthyol/noweda	Basis Cordes® RK	15A057	1
Ichthyol/Noweda	Basis Cordes® RK	16A034	3
Ichthyol/Noweda	Basis Cordes® RK	16A197	1
Ichthyol/Noweda	Basis Cordes® RK	17A046	2
ichthyol/noweda	Basis Cordes® RK	17A083	1
Ichthyol/Noweda	Basis Cordes® RK	17A083	3
ichthyol/noweda	Basis Cordes® RK	17A149	1
Ichthyol/Noweda	Basis Cordes® RK	17A149	4
Ichthyol/Noweda	Basis Cordes® RK	17A198	3
Ichthyol/Noweda	Basis Cordes® RK	18A108	3
ICHTHYOL/Noweda	Basis Cordes® RK	18A108	1
Ichthyol/Noweda	Basis Cordes® RK	18A109	1
Ichthyol/Noweda	Basis Cordes® RK	18A134	3
Ichthyol/Noweda	Basis Cordes® RK	18A182	3
ICHTHYOL/Noweda	Basis Cordes® RK	18A182	2
Ichthyol/Noweda	Basis Cordes® RK	19A0217	5
ICHTHYOL/Noweda	Basis Cordes® RK	19A0217	1
Ichthyol/Noweda	Basis Cordes® RK	19a097	1
Ichthyol/Noweda	Basis Cordes® RK	19A097	4
ICHTHYOL/Noweda	Basis Cordes® RK	19A097	1
Ichthyol/Noweda	Basis Cordes® RK	19A114	2
Ichthyol/Noweda	Basis Cordes® RK	20A0069	2
Ichthyol/Noweda	Basis Cordes® RK	20A0189	3
Ichthyol/Noweda	Basis Cordes® RK	21A0126	2
Ichthyol/Otto	Basis Cordes® RK	13A103	1
Ichthyol/Otto	Basis Cordes® RK	14A087	1
Ichthyol/P	Basis Cordes® RK	17A046	2
Ichthyol/Phoenix	Basis Cordes® RK	14A205	1
Ichthyol/Phoenix	Basis Cordes® RK	15A051	7
Ichthyol/Phoenix	Basis Cordes® RK	16A034	1
Ichthyol/Phoenix	Basis Cordes® RK	16A035	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Phoenix	Basis Cordes® RK	17A046	1
Ichthyol/Phoenix	Basis Cordes® RK	17A083	2
Ichthyol/Phoenix	Basis Cordes® RK	17A149	1
Ichthyol/Phoenix	Basis Cordes® RK	18A108	3
Ichthyol/Phoenix	Basis Cordes® RK	18A109	1
Ichthyol/Phoenix	Basis Cordes® RK	18A182	2
Ichthyol/Phoenix	Basis Cordes® RK	19A0217	1
Ichthyol/Phoenix	Basis Cordes® RK	19A097	3
Ichthyol/Phoenix	Basis Cordes® RK	19A114	1
Ichthyol/Phoenix	Basis Cordes® RK	20A0069	1
Ichthyol/Phoenix	Basis Cordes® RK	20A0189	3
Ichthyol/Phoenix	Basis Cordes® RK	21A0126	2
ICHTHYOL/PHÖNIX	Basis Cordes® RK	10A108	1
Ichthyol/Phönix	Basis Cordes® RK	12A114	1
Ichthyol/Phönix	Basis Cordes® RK	14A038	4
Ichthyol/Phönix	Basis Cordes® RK	14A087	1
Ichthyol/Phönix	Basis Cordes® RK	14A148	5
Ichthyol/phönix	Basis Cordes® RK	14A205	3
Ichthyol/Phönix	Basis Cordes® RK	15A172	4
Ichthyol/Phönix	Basis Cordes® RK	15A194	4
Ichthyol/Phönix	Basis Cordes® RK	16A034	4
Ichthyol/Phönix	Basis Cordes® RK	16A035	3
Ichthyol/Phönix	Basis Cordes® RK	16A125	8
Ichthyol/Phönix	Basis Cordes® RK	16A197	5
Ichthyol/Phönix	Basis Cordes® RK	17A046	1
Ichthyol/Phönix	Basis Cordes® RK	17A083	4
Ichthyol/Phönix	Basis Cordes® RK	17A149	4
Ichthyol/Phönix	Basis Cordes® RK	17A193	1
Ichthyol/Phönix	Basis Cordes® RK	17A198	3
Ichthyol/Phönix	Basis Cordes® RK	18A108	2
ICHTHYOL/Phönix	Basis Cordes® RK	18A108	1
Ichthyol/Phönix	Basis Cordes® RK	18A134	2
Ichthyol/Phönix	Basis Cordes® RK	18A182	5
Ichthyol/Phönix	Basis Cordes® RK	19A0217	2
Ichthyol/Phönix	Basis Cordes® RK	19A097	1
Ichthyol/Phönix	Basis Cordes® RK	19A114	3
Ichthyol/Phönix	Basis Cordes® RK	19A0217	1
Ichthyol/Phönix	Basis Cordes® RK	20A0001	1
Ichthyol/Phönix	Basis Cordes® RK	20A0069	7
Ichthyol/Phönix	Basis Cordes® RK	20A0189	2
Ichthyol/Phönix	Basis Cordes® RK	21A0126	1
Ichthyol/Phönix	Basis Cordes® RK	21A0203	2
Ichthyol/PX	Basis Cordes® RK	14A205	1
Ichthyol/sanacorp	Basis Cordes® RK		1
Ichthyol/sanacorp	Basis Cordes® RK	1115E-03300	1
Ichthyol/Sanacorp	Basis Cordes® RK	12A167	1
Ichthyol/Sanacorp	Basis Cordes® RK	13A038	3
Ichthyol/Sanacorp	Basis Cordes® RK	13A104	3
Ichthyol/Sanacorp	Basis Cordes® RK	13A206	1
Ichthyol/Sanacorp	Basis Cordes® RK	14A038	3
Ichthyol/Sanacorp	Basis Cordes® RK	14A148	4
Ichthyol/Sanacorp	Basis Cordes® RK	14A205	1
Ichthyol/Sanacorp	Basis Cordes® RK	15A051	5
Ichthyol/Sanacorp	Basis Cordes® RK	15A115	2
Ichthyol/Sanacorp	Basis Cordes® RK	15A172	1
Ichthyol/Sanacorp	Basis Cordes® RK	15A194	2
Ichthyol/sanacorp	Basis Cordes® RK	16A034	1
Ichthyol/Sanacorp	Basis Cordes® RK	16A034	1
Ichthyol/Sanacorp	Basis Cordes® RK	16A035	1
Ichthyol/Sanacorp	Basis Cordes® RK	17A046	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Sanacorp	Basis Cordes® RK	17A083	2
Ichthyol/Sanacorp	Basis Cordes® RK	17A149	2
Ichthyol/Sanacorp	Basis Cordes® RK	17A198	1
Ichthyol/Sanacorp	Basis Cordes® RK	18A108	3
Ichthyol/Sanacorp	Basis Cordes® RK	18A134	1
Ichthyol/Sanacorp	Basis Cordes® RK	18A182	1
Ichthyol/Sanacorp	Basis Cordes® RK	19A0217	1
Ichthyol/Sanacorp	Basis Cordes® RK	19A097	2
Ichthyol/Sanacorp	Basis Cordes® RK	19A114	1
Ichthyol/VDL	Basis Cordes® RK	14A205	1
Ichthyol	Basis Cordes® RK	10071401	1
Ichthyol	Basis Cordes® RK	10A064	1
Ichthyol	Basis Cordes® RK	10A109	1
Ichthyol	Basis Cordes® RK	10A138	1
Ichthyol	Basis Cordes® RK	11A067	4
Ichthyol	Basis Cordes® RK	11A079	1
Ichthyol	Basis Cordes® RK	11A156	1
ichthyol	Basis Cordes® RK	1213Q-03300	1
Ichthyol	Basis Cordes® RK	12A030	8
Ichthyol	Basis Cordes® RK	12A045	1
Ichthyol	Basis Cordes® RK	12A046	1
Ichthyol	Basis Cordes® RK	12A103	1
Ichthyol	Basis Cordes® RK	12A114	6
Ichthyol	Basis Cordes® RK	12A167	4
Ichthyol	Basis Cordes® RK	13A038	12
Ichthyol	Basis Cordes® RK	13A039	4
ichthyol	Basis Cordes® RK	13A103	1
Ichthyol	Basis Cordes® RK	13A103	6
Ichthyol	Basis Cordes® RK	13A104	2
Ichthyol	Basis Cordes® RK	13A206	8
Ichthyol	Basis Cordes® RK	13A039	2
Ichthyol	Basis Cordes® RK	14A038	1
Ichthyol	Basis Cordes® RK	14a087	1
Ichthyol	Basis Cordes® RK	14A087	5
Ichthyol	Basis Cordes® RK	14A149	1
Ichthyol	Basis Cordes® RK	14A205	3
Ichthyol	Basis Cordes® RK	15A051	2
Ichthyol	Basis Cordes® RK	15A057	4
Ichthyol	Basis Cordes® RK	15A115	5
Ichthyol	Basis Cordes® RK	15A172	3
Ichthyol	Basis Cordes® RK	15A194	4
Ichthyol	Basis Cordes® RK	15A057	1
Ichthyol	Basis Cordes® RK	16A034	7
ichthyol	Basis Cordes® RK	16A035	1
Ichthyol	Basis Cordes® RK	16A035	6
Ichthyol	Basis Cordes® RK	16A125	2
Ichthyol	Basis Cordes® RK	16A197	1
ichthyol	Basis Cordes® RK	17A046	1
Ichthyol	Basis Cordes® RK	17A046	15
ICHTHYOL	Basis Cordes® RK	17A046	1
ichthyol	Basis Cordes® RK	17A083	2
Ichthyol	Basis Cordes® RK	17A083	10
ICHTHYOL	Basis Cordes® RK	17A083	1
ichthyol	Basis Cordes® RK	17A149	1
Ichthyol	Basis Cordes® RK	17a149	1
Ichthyol	Basis Cordes® RK	17A149	14
ICHTHYOL	Basis Cordes® RK	17A149	2
Ichthyol	Basis Cordes® RK	17A198	1
Ichthyol	Basis Cordes® RK	17A083	2
ICHTHYOL	Basis Cordes® RK	18A103	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol	Basis Cordes® RK	18A108	4
ICHTHYOL	Basis Cordes® RK	18A108	1
ICHTHYOL	Basis Cordes® RK	18A1080	1
Ichthyol	Basis Cordes® RK	18A134	4
Ichthyol	Basis Cordes® RK	18A182	15
ICHTHYOL	Basis Cordes® RK	18A182	2
Ichthyol	Basis Cordes® RK	19111208	1
ichthyol	Basis Cordes® RK	19A0217	1
Ichthyol	Basis Cordes® RK	19A0217	5
ichthyol	Basis Cordes® RK	19A097	1
Ichthyol	Basis Cordes® RK	19A097	18
Ichthyol	Basis Cordes® RK	19A114	1
Ichthyol	Basis Cordes® RK	19A97	1
Ichthyol	Basis Cordes® RK	20061501	1
Ichthyol	Basis Cordes® RK	20A0001	3
ichthyol	Basis Cordes® RK	20A0069	1
Ichthyol	Basis Cordes® RK	20A0069	7
ICHTHYOL	Basis Cordes® RK	20A0069	1
Ichthyol	Basis Cordes® RK	20A0189	8
Ichthyol	Basis Cordes® RK	21A0126	3
Ichthyol	Basis Cordes® RK	21A0203	1
Ichthyol	Basis Cordes® RK	27102014B	1
Ichthyol	Basis Cordes® RK	28011507	1
Ichthyol	Basis Cordes® RK	30041301	1
ICHTHYOL_GESELLSCHAFT	Basis Cordes® RK	20A0189	2
Ichthyol_gesellschsft	Basis Cordes® RK	20A0189	1
IchthyolAlliance Health...	Basis Cordes® RK	13A206	1
ICHTHYOL-G./Noweda	Basis Cordes® RK	19A097	1
Ichthyol-Ges. / G	Basis Cordes® RK	18A108	1
Ichthyol-Ges./Phönx	Basis Cordes® RK	18A182	1
ICHTHYOL-GES.	Basis Cordes® RK	12A114	1
ICHTHYOL-GES.	Basis Cordes® RK	21A0203	1
ICHTHYOL-GES/GEHE	Basis Cordes® RK	11A079	1
ICHTHYOL-GES/GEHE	Basis Cordes® RK	12A045	1
Ichthyol-Ges/Sanacor	Basis Cordes® RK	17A046	1
Ichthyol-Ges/Sanacor	Basis Cordes® RK	17A083	1
Ichthyol-Ges/Sanacor	Basis Cordes® RK	19A097	1
ICHTHYOL-Gesellsch. Cor...	Basis Cordes® RK	1318A-03300	1
IchthyolGesellsch/Ph	Basis Cordes® RK	18A108	1
IchthyolGesellsch/Ph	Basis Cordes® RK	18A182	1
Ichthyol-Gesellschafft ...	Basis Cordes® RK	18A1008	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	18A108	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	17A083	2
Ichthyol-Gesellschaft /...	Basis Cordes® RK	15A194	2
Ichthyol-Gesellschaft /...	Basis Cordes® RK	16A034	2
Ichthyol-Gesellschaft /...	Basis Cordes® RK	18A108	1
Ichthyol-Gesellschaft / E	Basis Cordes® RK	12A045	1
Ichthyol-Gesellschaft / G	Basis Cordes® RK	13A038	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	15A057	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	17A149	2
Ichthyol-Gesellschaft /...	Basis Cordes® RK	18A182	2
Ichthyol-Gesellschaft /...	Basis Cordes® RK	19A0217	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	19A097	2
Ichthyol-Gesellschaft /...	Basis Cordes® RK	14A205	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	16A034	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	18A182	3
Ichthyol-Gesellschaft /...	Basis Cordes® RK	18A2	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	17A046	2
ICHTHYOL-GESELLSCHAFT /...	Basis Cordes® RK	17A149	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	13A103	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft /...	Basis Cordes® RK	13A206	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	14A038	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	20A0069	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	20A0189	1
Ichthyol-Gesellschaft /...	Basis Cordes® RK	21A0126	1
ICHTHYOL-Gesellschaft /...	Basis Cordes® RK	20A0069	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	17A046	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	17A149	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	19A097	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	17A149	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	15A115	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	19A0217	4
Ichthyol-Gesellschaft C...	Basis Cordes® RK	20A0069	3
Ichthyol-Gesellschaft C...	Basis Cordes® RK	20A0189	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	18A108	3
Ichthyol-Gesellschaft C...	Basis Cordes® RK	18A182	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	19A097	1
ICHTHYOL-GESELLSCHAFT C...	Basis Cordes® RK	14A087	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	20A0069	1
ICHTHYOL-GESELLSCHAFT C...	Basis Cordes® RK	19A097	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	19A097	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	19A114	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	14A038	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	14A148	2
Ichthyol-Gesellschaft C...	Basis Cordes® RK	15A051	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	15A172	4
Ichthyol-Gesellschaft C...	Basis Cordes® RK	16A035	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	16A125	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	20A0069	2
Ichthyol-Gesellschaft C...	Basis Cordes® RK	13A103	1
ICHTHYOL-Gesellschaft C...	Basis Cordes® RK	18D017	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	16A034	1
ICHTHYOL-GESELLSCHAFT C...	Basis Cordes® RK	17A046	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	15A194	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	16A035	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	18A108	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	18A182	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	19A097	1
ICHTHYOL-GESELLSCHAFT C...	Basis Cordes® RK	15A057	1
ICHTHYOL-GESELLSCHAFT C...	Basis Cordes® RK	15A115	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	15A172	4
Ichthyol-Gesellschaft C...	Basis Cordes® RK	16A035	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	17A149	4
Ichthyol-Gesellschaft C...	Basis Cordes® RK	18A108	3
Ichthyol-Gesellschaft C...	Basis Cordes® RK	18A182	3
Ichthyol-Gesellschaft C...	Basis Cordes® RK	19A0217	2
Ichthyol-Gesellschaft C...	Basis Cordes® RK	19A097	3
Ichthyol-Gesellschaft C...	Basis Cordes® RK	20A0069	4
Ichthyol-Gesellschaft C...	Basis Cordes® RK	20A0189	1
Ichthyol-Gesellschaft C...	Basis Cordes® RK	21A0203	1
Ichthyolgesellschaft Gehe	Basis Cordes® RK	19A097	1
Ichthyol-Gesellschaft N...	Basis Cordes® RK	17A083	1
Ichthyol-Gesellschaft/ ...	Basis Cordes® RK	17A083	1
Ichthyol-Gesellschaft/ ...	Basis Cordes® RK	15A194	1
Ichthyol-Gesellschaft/ ...	Basis Cordes® RK	17A083	1
Ichthyol-Gesellschaft/ ...	Basis Cordes® RK	13A206	1
Ichthyol-Gesellschaft/ ...	Basis Cordes® RK	18A182	1
ichthyolgesellschaft/ P...	Basis Cordes® RK	20A0069	1
Ichthyol-Gesellschaft/ ...	Basis Cordes® RK	19A097	1
Ichthyol-Gesellschaft/AHD	Basis Cordes® RK	15A194	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft/AHD	Basis Cordes® RK	19A0217	1
Ichthyol-Gesellschaft/AHD	Basis Cordes® RK	21A0126	1
Ichthyol-Gesellschaft/A...	Basis Cordes® RK	15A057	1
Ichthyol-Gesellschaft/A...	Basis Cordes® RK	17A193	1
Ichthyol-Gesellschaft/G...	Basis Cordes® RK	16A035	2
Ichthyol-Gesellschaft/G...	Basis Cordes® RK	17A046	1
Ichthyol-Gesellschaft/G...	Basis Cordes® RK	18A182	1
Ichthyol-Gesellschaft/J...	Basis Cordes® RK	18A182	1
Ichthyol-Gesellschaft/N...	Basis Cordes® RK	13A103	1
Ichthyol-Gesellschaft/N...	Basis Cordes® RK	13A206	2
Ichthyol-Gesellschaft/N...	Basis Cordes® RK	19A0217	1
Ichthyol-Gesellschaft/N...	Basis Cordes® RK	20A0189	1
Ichthyol-Gesellschaft/P...	Basis Cordes® RK	13A039	1
Ichthyol-Gesellschaft/P...	Basis Cordes® RK	16A035	1
Ichthyol-Gesellschaft/P...	Basis Cordes® RK	18A103	1
Ichthyol-Gesellschaft/P...	Basis Cordes® RK	19A0217	1
Ichthyol-Gesellschaft/P...	Basis Cordes® RK	20A0189	1
Ichthyol-Gesellschaft/P...	Basis Cordes® RK	16A035	1
ICHTHYOL-GESELLSCHAFT/P...	Basis Cordes® RK	16A035	1
Ichthyol-Gesellschaft/P...	Basis Cordes® RK	17A046	2
Ichthyol-Gesellschaft/P...	Basis Cordes® RK	17A149	1
ICHTHYOL-GESELLSCHAFT/P...	Basis Cordes® RK	17A149	1
ICHTHYOL-Gesellschaft/P...	Basis Cordes® RK	19A097	1
ICHTHYOL-Gesellschaft/P...	Basis Cordes® RK	20A0069	1
Ichthyol-Gesellschaft/S...	Basis Cordes® RK	16A034	1
Ichthyol-Gesellschaft/S...	Basis Cordes® RK	16A035	2
Ichthyol-Gesellschaft/S...	Basis Cordes® RK	17A046	1
Ichthyol-Gesellschaft/S...	Basis Cordes® RK	17A149	1
Ichthyol-Gesellschaft/S...	Basis Cordes® RK	19A097	2
Ichthyol-Gesellschaft/S...	Basis Cordes® RK	17A083	1
Ichthyol-Gesellschaft/V...	Basis Cordes® RK	13A103	1
ICHTHYOL-GESELLSCHAFT	Basis Cordes® RK	11A079	1
Ichthyol-Gesellschaft	Basis Cordes® RK	12051803	1
Ichthyol-Gesellschaft	Basis Cordes® RK	12A030	1
Ichthyol-Gesellschaft	Basis Cordes® RK	12A046	1
ICHTHYOL-GESELLSCHAFT	Basis Cordes® RK	12A046	1
Ichthyol-Gesellschaft	Basis Cordes® RK	12A114	1
Ichthyol-Gesellschaft	Basis Cordes® RK	13A038	1
Ichthyol-Gesellschaft	Basis Cordes® RK	13A039	3
Ichthyol-Gesellschaft	Basis Cordes® RK	13A103	3
Ichthyol-Gesellschaft	Basis Cordes® RK	13A206	1
Ichthyol-Gesellschaft	Basis Cordes® RK	14A038	1
Ichthyol-Gesellschaft	Basis Cordes® RK	14A087	3
Ichthyol-Gesellschaft	Basis Cordes® RK	14A148	1
Ichthyol-Gesellschaft	Basis Cordes® RK	14A205	5
ICHTHYOL-GESELLSCHAFT	Basis Cordes® RK	14A205	1
Ichthyol-Gesellschaft	Basis Cordes® RK	15A051	1
Ichthyol-Gesellschaft	Basis Cordes® RK	15A057	7
Ichthyol-Gesellschaft	Basis Cordes® RK	15A115	6
Ichthyol-Gesellschaft	Basis Cordes® RK	15A172	1
Ichthyol-Gesellschaft	Basis Cordes® RK	15A194	5
Ichthyol-Gesellschaft	Basis Cordes® RK	16A034	11
Ichthyol-Gesellschaft	Basis Cordes® RK	16A035	6
ICHTHYOL-GESELLSCHAFT	Basis Cordes® RK	16A035	1
Ichthyol-Gesellschaft	Basis Cordes® RK	16A125	2
Ichthyol-Gesellschaft	Basis Cordes® RK	17A046	5
Ichthyol-Gesellschaft	Basis Cordes® RK	17a083	1
Ichthyol-Gesellschaft	Basis Cordes® RK	17A083	4
ICHTHYOL-GESELLSCHAFT	Basis Cordes® RK	17A083	1
Ichthyol-Gesellschaft	Basis Cordes® RK	17A14	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft	Basis Cordes® RK	17A149	6
ICHTHYOL-GESELLSCHAFT	Basis Cordes® RK	17A149	1
Ichthyol-Gesellschaft	Basis Cordes® RK	18A108	4
ICHTHYOL-Gesellschaft	Basis Cordes® RK	18A108	1
ICHTHYOL-GESELLSCHAFT	Basis Cordes® RK	18A108	1
Ichthyol-Gesellschaft	Basis Cordes® RK	18A182	6
Ichthyol-Gesellschaft	Basis Cordes® RK	19A0217	3
Ichthyol-Gesellschaft	Basis Cordes® RK	19A097	4
Ichthyol-Gesellschaft	Basis Cordes® RK	19A114	1
Ichthyol-Gesellschaft	Basis Cordes® RK	20A0069	5
ICHTHYOL-GESELLSCHAFT	Basis Cordes® RK	20A0189	1
IchthyolGesellschaftCor...	Basis Cordes® RK	15A115	2
Ichthyol-Geselschaft	Basis Cordes® RK	24061704	1
Ichthyol-Gesllschaft Co...	Basis Cordes® RK	18A182	1
Ichthyol-Gesllschaft/Ph...	Basis Cordes® RK	16A034	1
IchthyolNoweda	Basis Cordes® RK	19A0217	1
Ichtiol/Noweda	Basis Cordes® RK	19A114	1
ICHTL/Phönix	Basis Cordes® RK	18A108	3
Ichtthyol/Sanacorp	Basis Cordes® RK	16A034	1
Ichtyhol Gesellschaft	Basis Cordes® RK	15A115	2
Ichtyhol Gesellschaft	Basis Cordes® RK	16A035	1
Ichtyol - Gesellschaft	Basis Cordes® RK	13A206	1
Ichtyol - Gesellschaft	Basis Cordes® RK	17A046	1
Ichtyol / Gehe	Basis Cordes® RK	17A083	4
Ichtyol / Gehe	Basis Cordes® RK	18A108	1
Ichtyol / Gehe	Basis Cordes® RK	18A182	2
Ichtyol /Gehe	Basis Cordes® RK	17A046	1
Ichtyol /Jenne 16.01.2014	Basis Cordes® RK	13A039	1
Ichtyol 004	Basis Cordes® RK	12A046	1
Ichtyol Gehe	Basis Cordes® RK	13A206	1
Ichtyol Gesellschaft / ...	Basis Cordes® RK	15A194	1
ICHTYOL GESELLSCHAFT Co...	Basis Cordes® RK	15A057	1
ICHTYOL GESELLSCHAFT Co...	Basis Cordes® RK	16A197	1
Ichtyol- Gesellschaft C...	Basis Cordes® RK	19A097	1
ichtyol gesellschaft co...	Basis Cordes® RK	17A083	1
ichtyol gesellschaft co...	Basis Cordes® RK	17A149	1
Ichtyol Gesellschaft/ G...	Basis Cordes® RK	16A035	1
Ichtyol Gesellschaft/ N...	Basis Cordes® RK	18A108	1
Ichtyol Gesellschaft/ P...	Basis Cordes® RK	17A046	1
Ichtyol Gesellschaft/An...	Basis Cordes® RK	20A0069	2
Ichtyol Gesellschaft	Basis Cordes® RK	15A057	3
Ichtyol Gesllschaft	Basis Cordes® RK	15A194	1
Ichtyol Gesllschaft	Basis Cordes® RK	16A034	1
Ichtyol GmbH	Basis Cordes® RK	17A083	1
Ichtyol GmbH	Basis Cordes® RK	17A149	1
Ichtyol GmbH	Basis Cordes® RK	18A182	1
Ichtyol/ Noweda	Basis Cordes® RK	17A046	1
Ichtyol/Anzag	Basis Cordes® RK	17A083	1
Ichtyol/Anzag	Basis Cordes® RK	18A108	1
Ichtyol/Anzag	Basis Cordes® RK	19A0217	2
Ichtyol/Anzag	Basis Cordes® RK	20A0114	1
Ichtyol/Anzag	Basis Cordes® RK	20A0189	3
Ichtyol/Gehe	Basis Cordes® RK	13A206	1
Ichtyol/Geilenkirchen	Basis Cordes® RK	19A0217	1
Ichtyol/Noweda	Basis Cordes® RK	15A194	1
Ichtyol/Noweda	Basis Cordes® RK	16A034	1
Ichtyol/Noweda	Basis Cordes® RK	16A035	1
Ichtyol/Noweda	Basis Cordes® RK	17A046	1
Ichtyol/Phoenix	Basis Cordes® RK	14A148	1
Ichtyol/Phoenix	Basis Cordes® RK	15A057	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichtyol/Phoenix	Basis Cordes® RK	18A134	1
Ichtyol/Phoenix	Basis Cordes® RK	20A0114	1
Ichtyol/Phönix	Basis Cordes® RK	18A182	1
Ichtyol/Sanacorp	Basis Cordes® RK	20A0069	1
Ichtyol	Basis Cordes® RK	11A156	1
Ichtyol	Basis Cordes® RK	12A114	1
Ichtyol	Basis Cordes® RK	13A038	1
Ichtyol	Basis Cordes® RK	13A103	2
Ichtyol	Basis Cordes® RK	15A115	1
Ichtyol	Basis Cordes® RK	16A034	3
Ichtyol	Basis Cordes® RK	16A035	2
Ichtyol	Basis Cordes® RK	17A198	1
Ichtyol-Gesellschaft / Ph	Basis Cordes® RK	17A083	4
Ichtyol-Gesellschaft / Ph	Basis Cordes® RK	17A149	1
Ichtyol-Gesellschaft / ...	Basis Cordes® RK	18A182	3
Ichtyol-Gesellschaft /G...	Basis Cordes® RK	20A0189	1
Ichtyol-Gesellschaft Co...	Basis Cordes® RK	20A0189	1
Ichtyol-Gesellschaft Co...	Basis Cordes® RK	17A083	1
Ichtyol-Gesellschaft Co...	Basis Cordes® RK	19A0217	1
Ichtyolgesellschaft Cor...	Basis Cordes® RK	17A046	1
Ichtyol-Gesellschaft Co...	Basis Cordes® RK	20A0069	1
Ichtyol-Gesellschaft Co...	Basis Cordes® RK	20A0189	1
Ichtyol-Gesellschaft/No...	Basis Cordes® RK	21A0126	1
Ichtyol-Gesellschaft/Ph...	Basis Cordes® RK	12A114	1
Ichtyol-Gesellschaft/Sa...	Basis Cordes® RK	20A0069	1
Ichtyol-Gesellschaft	Basis Cordes® RK	13A038	1
Ichtyol-Gesellschaft	Basis Cordes® RK	13A206	1
Ichtyol-Gesellschaft	Basis Cordes® RK	14A038	1
Ichtyol-Gesellschaft	Basis Cordes® RK	14A087	1
Ichtyol-Gesellschaft	Basis Cordes® RK	14A205	2
Ichtyol-Gesellschaft	Basis Cordes® RK	15A057	1
Ichtyol-Gesellschaft	Basis Cordes® RK	15A172	4
Ichtyol-Gesellschaft	Basis Cordes® RK	16A034	2
Ichtyol-Gesellschaft	Basis Cordes® RK	16A035	1
Ichtyol-Gesellschaft	Basis Cordes® RK	16A125	5
Ichtyol-Gesellschaft	Basis Cordes® RK	16A197	5
Ichtyol-Gesellschaft	Basis Cordes® RK	17A046	3
Ichtyol-Gesellschaft	Basis Cordes® RK	17A083	1
Ichtyol-Gesellschaft	Basis Cordes® RK	17A149	1
Ichtyol-Gesellschaft	Basis Cordes® RK	17A198	6
Ichtyol-Gesellschaft	Basis Cordes® RK	18A108	3
Ichtyol-Gesellschaft	Basis Cordes® RK	18A182	2
Ichtyol-Gesellschaft	Basis Cordes® RK	19A114	1
Ichtyol-Geselschaft AHD...	Basis Cordes® RK	16A034	1
Infectopharm/Phönix	Basis Cordes® RK	18A103	1
Infectopharm	Basis Cordes® RK	3318J-003300	1
Jenne	Basis Cordes® RK	18A182	1
Jenne	Basis Cordes® RK	2010189	1
Krieger/Ichthyol	Basis Cordes® RK	15A172	1
Krieger/Ichthyol	Basis Cordes® RK	15A194	1
Krieger	Basis Cordes® RK	17A083	2
Krieger	Basis Cordes® RK	17A149	1
krieger	Basis Cordes® RK	19A114	1
L10	Basis Cordes® RK	17A046	1
L12	Basis Cordes® RK	18A108	1
Noweda 29.032016	Basis Cordes® RK	15A115	2
Noweda ichthyol 17.11.1...	Basis Cordes® RK	18A108	1
Noweda/ Ichthyol	Basis Cordes® RK	16A0335	1
noweda/anzag	Basis Cordes® RK	19A097	1
Noweda/Cordes	Basis Cordes® RK	17A046	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda/Ichthyol	Basis Cordes® RK	14A038	1
Noweda/Ichthyol	Basis Cordes® RK	18A108	1
Noweda/Ichthyol	Basis Cordes® RK	19A0217	1
Noweda/Ichthyol	Basis Cordes® RK	19A114	2
Noweda/Ichtyol	Basis Cordes® RK	19A097	2
Noweda/Wepa	Basis Cordes® RK	13A206	1
Noweda	Basis Cordes® RK	11A156	1
Noweda	Basis Cordes® RK	13A038	1
Noweda	Basis Cordes® RK	14A087	1
Noweda	Basis Cordes® RK	15A057	1
Noweda	Basis Cordes® RK	15A194	1
Noweda	Basis Cordes® RK	16A034	2
Noweda	Basis Cordes® RK	16A035	3
Noweda	Basis Cordes® RK	17A149	1
Noweda	Basis Cordes® RK	18A108	1
Noweda	Basis Cordes® RK	18A109	1
Noweda	Basis Cordes® RK	18A134	3
Noweda	Basis Cordes® RK	18A182	2
Noweda	Basis Cordes® RK	19A0217	2
Noweda	Basis Cordes® RK	19A097	5
Noweda	Basis Cordes® RK	20A0189	1
Noweda	Basis Cordes® RK	21A0126	3
Occasio/ Ichthyol	Basis Cordes® RK	16A197	1
Occasio/ Ichthyol	Basis Cordes® RK	17A198	1
Oststadt	Basis Cordes® RK	17A083	1
Phoe	Basis Cordes® RK	16A035	1
phoenix/ ichthyol-gesel...	Basis Cordes® RK	18A182	4
Phoenix/Ichthyol-Gesell...	Basis Cordes® RK	19A097	2
Phoenix	Basis Cordes® RK	13A039	1
Phoenix	Basis Cordes® RK	19A097	2
Phoenix	Basis Cordes® RK	21A0203	1
Phönix / Gehe	Basis Cordes® RK	17A149	1
Phönix Cordes	Basis Cordes® RK	17A149	1
Phönix Gotha	Basis Cordes® RK	12A045	1
Phönix Gotha	Basis Cordes® RK	12A114	1
Phönix Gotha	Basis Cordes® RK	13A103	2
Phönix Gotha	Basis Cordes® RK	13A2C6	1
Phönix Gotha	Basis Cordes® RK	14A205	1
Phönix Gotha	Basis Cordes® RK	15A051	1
Phönix Gotha	Basis Cordes® RK	17A149	1
Phönix/ Ichtyol Cordes...	Basis Cordes® RK	20A0069	1
Phönix/Ichthyol	Basis Cordes® RK	12A046	1
Phönix/Ichthyol	Basis Cordes® RK	16A034	1
Phönix/Ichthyol	Basis Cordes® RK	17A149	6
Phönix/Ichthyol	Basis Cordes® RK	18A108	3
Phönix/Ichthyol	Basis Cordes® RK	19A097	1
Phönix	Basis Cordes® RK	12A167	2
phönix	Basis Cordes® RK	15A115	1
Phönix	Basis Cordes® RK	15A194	2
Phönix	Basis Cordes® RK	16A034	1
Phönix	Basis Cordes® RK	17A083	1
Phönix	Basis Cordes® RK	17a149	1
Phönix	Basis Cordes® RK	18A108	1
Phönix	Basis Cordes® RK	18a182	1
Phönix	Basis Cordes® RK	18A182	2
Phönix	Basis Cordes® RK	19A0217	1
Phönix	Basis Cordes® RK	20a0189	1
Sanacop/Ichthyol	Basis Cordes® RK	14A046	1
Sanacop/Ichthyol	Basis Cordes® RK	17A046	1
Sanacorp / Ichthyol	Basis Cordes® RK	12A167	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp/ Ichthyol Gese...	Basis Cordes® RK	12A045	1
SANACORP/ICHTHYOL	Basis Cordes® RK	17A149	1
Sanacorp/Ichthyol	Basis Cordes® RK	18A108	1
Sanacorp/Ichthyol	Basis Cordes® RK	18A182	1
Sanacorp/Ichthyol	Basis Cordes® RK	19A097	1
SANACORP/ICHTHYOL	Basis Cordes® RK	20A0069	1
Sanacorp/Ichtyol	Basis Cordes® RK	19A0217	1
sanacorp	Basis Cordes® RK	12A046	1
Sanacorp	Basis Cordes® RK	13A103	1
Sanacorp	Basis Cordes® RK	15A115	1
Sanacorp	Basis Cordes® RK	16A034	1
Sanacorp	Basis Cordes® RK	17A083	1
Sanacorp	Basis Cordes® RK	18A109	1
Sanacorp	Basis Cordes® RK	18A182	1
SANACORP	Basis Cordes® RK	18A182	1
Sanacorp	Basis Cordes® RK	20A0189	1
Sanacorp	Basis Cordes® RK	21A0203	1
Sonnenberg-Apotheke	Basis Cordes® RK	4643491	1
Spangropharm	Basis Cordes® RK	17A083	1
Spangropharm	Basis Cordes® RK	19A0217	1
Spangropharm	Basis Cordes® RK	21A0126	1
WEPA	Basis Cordes® RK	17A046	1
Ychthyol-Gesellschaft	Basis Cordes® RK	16A035	2

- 295 850 spectra from 1324 *Apo-Ident* customers from a total of 52 884 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Basis Cordes® RK* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Basis Cordes® RK* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	280	0	68 219
Type B	0	160	0	111 113
Type C	0	1599	9	295 512

The substance/substance group *Basis Cordes® RK* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.8571 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6832 %)	99.4403 % (> 99.2537 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Basis Cordes® RK* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Lanolin DAB	29.09	–
Cooling cream DAB	32.09	–
Clotrimazole 10% Cordes® RK	39.24	–
Macrogols 300	67.27	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Basis Cordes® RK* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31078	31660	18.54	53.26
31660	31660	0.00	43.58
34688	31660	9.06	46.34
34839	31660	9.96	39.37
35751	31660	20.18	35.83
35760	31660	18.41	36.93

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Benzalkonium chloride solution 50%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30667-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Benzalkonium chloride solution 50%; Benzalkonii chloridi solutio 50%

Special notes

When selecting the *Benzalkonium chloride solution 50%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Benzalkonium chloride solution 50%	4	4	74

Second-stage model

For differentiation of the substance/substance group *Benzalkonium chloride solution 50%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Benzalkonium chloride solution 50%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Benzalkonium chl...	11271919	30667	40	1402369
Caelo	Benzalkonium chl...	15051325	33605	40	20150804
Caelo	Benzalkonium chl...	20003906006	35856	50	20201124
Euro OTC	Benzalkonium chl...	1105041V-03	31613	60	20130809

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 190 spectra of 4 reference samples from the substance/substance group *Benzalkonium chloride solution 50%*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.

- 68 309 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Benzalkonium chloride solution 50%*.

- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Benzalkonium chloride soluti...	15051305	32960	40
Caelo	Benzalkonium chloride soluti...	15051327	33834	40
Caelo	Benzalkonium chloride soluti...	182660	34334	40
Caelo	Benzalkonium chloride soluti...	21004233	36175	40

- 111 153 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 584 spectra from 377 *Apo-Ident* customers from 78 batches from the substance/substance group *Benzalkonium chloride solution 50%*.

- Among them are spectra of independent samples from 74 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
/Phönix	Benzalkonium chloride soluti...	20003906001	1
AHD	Benzalkonium chloride soluti...	192838002	1
Alliance Healthcare	Benzalkonium chloride soluti...	192838002	1
Anzag	Benzalkonium chloride soluti...	18039409	1
Caelo	Benzalkonium chloride soluti...	11271906	2
Caelo	Benzalkonium chloride soluti...	11271912	1
Caelo	Benzalkonium chloride soluti...	11271919	3
Caelo	Benzalkonium chloride soluti...	12254603	1
Caelo	Benzalkonium chloride soluti...	12254608	3
Caelo	Benzalkonium chloride soluti...	12254610	2
Caelo	Benzalkonium chloride soluti...	12254615	3
Caelo	Benzalkonium chloride soluti...	12254620	3
Caelo	Benzalkonium chloride soluti...	13152104	1
Caelo	Benzalkonium chloride soluti...	13152105	6
Caelo	Benzalkonium chloride soluti...	13152111	4
Caelo	Benzalkonium chloride soluti...	13152114	1
Caelo	Benzalkonium chloride soluti...	13152115	1
Caelo	Benzalkonium chloride soluti...	13152121	1
Caelo	Benzalkonium chloride soluti...	13152123	3
Caelo	Benzalkonium chloride soluti...	13152125	21
Caelo	Benzalkonium chloride soluti...	1315225	1
Caelo	Benzalkonium chloride soluti...	15051305	15
Caelo	Benzalkonium chloride soluti...	15051309	14
Caelo	Benzalkonium chloride soluti...	15051312	9
Caelo	Benzalkonium chloride soluti...	15051317	11
Caelo	Benzalkonium chloride soluti...	15051320	4
Caelo	Benzalkonium chloride soluti...	15051323	24
Caelo	Benzalkonium chloride soluti...	15051325	23
Caelo	Benzalkonium chloride soluti...	15051327	6
Caelo	Benzalkonium chloride soluti...	15119501	6
Caelo	Benzalkonium chloride soluti...	15119505	12
Caelo	Benzalkonium chloride soluti...	16089219	1
Caelo	Benzalkonium chloride soluti...	17044901	38
Caelo	Benzalkonium chloride soluti...	1704901	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Benzalkonium chloride soluti…	17344901	1
Caelo	Benzalkonium chloride soluti…	18036405	1
Caelo	Benzalkonium chloride soluti…	18039405	31
Caelo	Benzalkonium chloride soluti…	18039409	46
Caelo	Benzalkonium chloride soluti…	180394095743	1
Caelo	Benzalkonium chloride soluti…	18039410	18
Caelo	Benzalkonium chloride soluti…	180394505	1
Caelo	Benzalkonium chloride soluti…	18205001	2
Caelo	Benzalkonium chloride soluti…	1826600002	1
Caelo	Benzalkonium chloride soluti…	182660002	38
Caelo	Benzalkonium chloride soluti…	182660006	1
Caelo	Benzalkonium chloride soluti…	18266001	34
Caelo	Benzalkonium chloride soluti…	18266002	1
Caelo	Benzalkonium chloride soluti…	18266003	3
Caelo	Benzalkonium chloride soluti…	18266006	13
Caelo	Benzalkonium chloride soluti…	1826606	1
Caelo	Benzalkonium chloride soluti…	192838002	15
Caelo	Benzalkonium chloride soluti…	192838005	5
Caelo	Benzalkonium chloride soluti…	20003906001	4
Caelo	Benzalkonium chloride soluti…	20003906004	8
Caelo	Benzalkonium chloride soluti…	20003906005	4
Caelo	Benzalkonium chloride soluti…	20003906006	10
Caelo	Benzalkonium chloride soluti…	200039606001	1
Caelo	Benzalkonium chloride soluti…	2003906001	1
Caelo	Benzalkonium chloride soluti…	2003906005	1
Caelo	Benzalkonium chloride soluti…	21003188001	1
Caelo	Benzalkonium chloride soluti…	21004233005	1
Caelo	Benzalkonium chloride soluti…	21004233006	1
Caelo	Benzalkonium chloride soluti…	31011402	1
Caelo	Benzalkonium chloride soluti…	5117A-01168	1
Caelo	Benzalkonium chloride soluti…	60547317	1
Caelo	Benzalkonium chloride soluti…	611benz	1
Caelo	Benzalkonium chloride soluti…	7082007	1
Caelo	Benzalkonium chloride soluti…	7111806	1
Caelo	Benzalkonium chloride soluti…	8041406	1
Caelo	Benzalkonium chloride soluti…	82660061	1
Caelo	Benzalkonium chloride soluti…	P-14011922	1
Caeolo/Gehe	Benzalkonium chloride soluti…	18039405	1
Caeolo	Benzalkonium chloride soluti…	15119505	1
Caesar & Loretz GmbH/ A…	Benzalkonium chloride soluti…	192838002	1
Caesar & Loretz GmbH/ J…	Benzalkonium chloride soluti…	182660002	1
Caesar & Loretz GmbH/ P…	Benzalkonium chloride soluti…	20003906001	1
Caesar & Loretz GmbH//P…	Benzalkonium chloride soluti…	20003906001	1
Caesar & Loretz GmbH/Fi…	Benzalkonium chloride soluti…	18266006	1
Caesar & Loretz GmbH/Gehe	Benzalkonium chloride soluti…	192838002	1
Caesar & Loretz GmbH/Ph…	Benzalkonium chloride soluti…	20003906001	1
Caesar & Loretz GmbH/Ph…	Benzalkonium chloride soluti…	182660	1
Caesar & Loretz GmbH/Ph…	Benzalkonium chloride soluti…	20003906001	1
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	18039409	2
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	18039410	1
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	182660002	7
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	18266001	6
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	18266006	7
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	192838002	7
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	192838005	4
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	20003906001	6
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	20003906005	2
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	20003906006	1
Caesar & Loretz GmbH	Benzalkonium chloride soluti…	21003188001	1
Caesar & Loretz GmbHFie…	Benzalkonium chloride soluti…	18039409	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar/Noweda	Benzalkonium chloride soluti...	5012m-01168	1
Cealo Gehe	Benzalkonium chloride soluti...	20003906001	1
Celo/Sanacorp	Benzalkonium chloride soluti...	18039409	1
Ebert-Jacobi	Benzalkonium chloride soluti...	15051325	1
Euro OTC	Benzalkonium chloride soluti...	110041V-03	1
Euro OTC	Benzalkonium chloride soluti...	1105041-01	2
Euro OTC	Benzalkonium chloride soluti...	1105041V	1
Euro OTC	Benzalkonium chloride soluti...	1105041V-03	3
Euro OTC	Benzalkonium chloride soluti...	15051309	1
Fagron	Benzalkonium chloride soluti...	1105041-01	2
Fagron	Benzalkonium chloride soluti...	15051320	1
Fagron	Benzalkonium chloride soluti...	15051323	1
Fagron	Benzalkonium chloride soluti...	15119501	1
Fagron	Benzalkonium chloride soluti...	18039405	1
Fagron	Benzalkonium chloride soluti...	2913A-01168	1
Fagron	Benzalkonium chloride soluti...	7F21-N09	1
Fischar	Benzalkonium chloride soluti...	17044901	1
Gehe	Benzalkonium chloride soluti...	15051323	1
Gehe	Benzalkonium chloride soluti...	15051325	1
GEHE	Benzalkonium chloride soluti...	17044901	1
GEHE	Benzalkonium chloride soluti...	18039405	1
Gehe	Benzalkonium chloride soluti...	18039409	2
L10	Benzalkonium chloride soluti...	18039405	1
L12	Benzalkonium chloride soluti...	15051312	1
Löhr Center/	Benzalkonium chloride soluti...	2013U-01168	1
Noweda	Benzalkonium chloride soluti...	12254615	1
Noweda	Benzalkonium chloride soluti...	15051327	1
Noweda	Benzalkonium chloride soluti...	182660002	1
Noweda	Benzalkonium chloride soluti...	192838002	1
Noweda	Benzalkonium chloride soluti...	20003906001	1
Phoenix	Benzalkonium chloride soluti...	15051309	1
Phoenix	Benzalkonium chloride soluti...	3412	1
Phönix Gotha	Benzalkonium chloride soluti...	13152125	1
Phönix	Benzalkonium chloride soluti...	13152125	1
Phönix	Benzalkonium chloride soluti...	18039410	1
Phönix	Benzalkonium chloride soluti...	18266001	1
Phönix	Benzalkonium chloride soluti...	20003906005	1
Sanacorp	Benzalkonium chloride soluti...	12254608	1
Sanacorp	Benzalkonium chloride soluti...	13152125	1
Sanacorp	Benzalkonium chloride soluti...	15051325	1
Sanacorp	Benzalkonium chloride soluti...	15119501	1
Sanacorp	Benzalkonium chloride soluti...	17044901	1
Sanacorp	Benzalkonium chloride soluti...	18039405	1
Sanacorp	Benzalkonium chloride soluti...	4/AKD2	1

- 296 874 spectra from 1324 *Apo-Ident* customers from a total of 52 911 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Benzalkonium chloride solution 50%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Benzalkonium chloride solution 50%* and it was evaluated how many matches (positive) and rejections (negative)

were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	190	0	68 309
Type B	0	160	0	111 153
Type C	0	583	1	296 874

The substance/substance group *Benzalkonium chloride solution 50%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 96.8421 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6875 %)	99.8288 % (> 99.3151 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Benzalkonium chloride solution 50%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Anionic hydrophlic cream without prese…	47.95	–
Anionic hydrophilic cream SR (NRF p.27)	49.25	–
Glycolic acid 70%	54.10	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Benzalkonium chloride solution 50%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30667	30667	0.00	47.37
31613	30667	8.13	46.51
33605	30667	13.91	46.49
35856	30667	11.77	46.51

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Benzyl alcohol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30574-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Benzyl alcohol; Alkohol benzylicus

Special notes

When selecting the *Benzyl alcohol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Benzyl alcohol	6	4	39

Second-stage model

For differentiation of the substance/substance group *Benzyl alcohol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Benzyl alcohol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Benzyl alcohol	13292103	31220	40	1403478
Caelo	Benzyl alcohol	13292107	31369	60	20131028
Caelo	Benzyl alcohol	16277302	32969	40	20161024
Caelo	Benzyl alcohol	190780	34631	40	20190410*
Caelo	Benzyl alcohol	21002213	35724	50	20210806*
Caelo	Benzyl alcohol	22000851	36300	40	20220408*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 270 spectra of 6 reference samples from the substance/substance group *Benzyl alcohol*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 229 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Benzyl alcohol*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Benzyl alcohol	16341802	32968	40
Caelo	Benzyl alcohol	17191002	33857	40
Caelo	Benzyl alcohol	20002326	35277	40
Caelo	Benzyl alcohol	22000629	36298	40

- 111 153 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 82 spectra from 25 *Apo-Ident* customers from 43 batches from the substance/substance group *Benzyl alcohol*.
- Among them are spectra of independent samples from 39 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Applichem	Benzyl alcohol	17191004	1
Caelo	Benzyl alcohol	12108503	1
Caelo	Benzyl alcohol	12256208	1
Caelo	Benzyl alcohol	13056803	1
Caelo	Benzyl alcohol	13292103	3
Caelo	Benzyl alcohol	13292107	2
Caelo	Benzyl alcohol	14206201	2
Caelo	Benzyl alcohol	14206209	1
Caelo	Benzyl alcohol	15014901	5
Caelo	Benzyl alcohol	15014907	1
Caelo	Benzyl alcohol	15318403	3
Caelo	Benzyl alcohol	15318406	1
Caelo	Benzyl alcohol	15437503	3
Caelo	Benzyl alcohol	16277302	1
Caelo	Benzyl alcohol	16341802	2
Caelo	Benzyl alcohol	16341805	3
Caelo	Benzyl alcohol	16341809	1
Caelo	Benzyl alcohol	17191002	3
Caelo	Benzyl alcohol	17353903	2
Caelo	Benzyl alcohol	17353904	1
Caelo	Benzyl alcohol	17353906	2
Caelo	Benzyl alcohol	180878	1
Caelo	Benzyl alcohol	18087802	1
Caelo	Benzyl alcohol	18087804	1
Caelo	Benzyl alcohol	18087809	1
Caelo	Benzyl alcohol	190780	3
Caelo	Benzyl alcohol	19078001	2
Caelo	Benzyl alcohol	19078004	1
Caelo	Benzyl alcohol	19078005	1
Caelo	Benzyl alcohol	20003555003	1
Caelo	Benzyl alcohol	2003555003	1
Caelo	Benzyl alcohol	21003240002	2
Caelo	Benzyl alcohol	AP210225-01	1
Caesar & Loretz GmbH/ P...	Benzyl alcohol	20002326002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Gehe	Benzyl alcohol	190780002	1
Caesar & Loretz GmbH/Ph...	Benzyl alcohol	18087809	1
Caesar & Loretz GmbH/Ph...	Benzyl alcohol	190780002	2
Caesar & Loretz GmbH	Benzyl alcohol	18087809	1
Caesar & Loretz GmbH	Benzyl alcohol	18087815	1
Caesar & Loretz GmbH	Benzyl alcohol	190780002	1
Caesar & Loretz GmbH	Benzyl alcohol	19078001	2
Gatt-Koller	Benzyl alcohol	1803541	2
Gehe	Benzyl alcohol	15318406	1
Gehe	Benzyl alcohol	15437503	1
Gehe	Benzyl alcohol	15437509	1
Gehe	Benzyl alcohol	15437512	1
GEHE	Benzyl alcohol	17353903	1
GEHE	Benzyl alcohol	17353906	1
Kögl	Benzyl alcohol	1800440	2
Kögl	Benzyl alcohol	241507161217	1
Kögl	Benzyl alcohol	241507163116	1
Merck	Benzyl alcohol	K53742287	1
PHÖNIX	Benzyl alcohol	17191002	2
Sanacorp	Benzyl alcohol	15014907	1

- 297 376 spectra from 1324 *Apo-Ident* customers from a total of 52 945 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Benzyl alcohol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Benzyl alcohol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	270	0	68 229
Type B	0	160	0	111 153
Type C	0	82	0	297 376

The substance/substance group *Benzyl alcohol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.7778 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6876 %)	100.0000 % (> 92.6829 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to

exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Benzyl alcohol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Hydroxyethyl salicylate	68.12	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Benzyl alcohol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31220	31220	0.00	89.19
31369	31220	1.75	90.87
32969	36300	5.45	84.97
34631	34631	0.00	97.82
35724	35724	0.00	90.32
36300	36300	0.00	86.29

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Benzyl benzoate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31208-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Benzyl benzoate; Benzylis benzoas

Special notes

When selecting the *Benzyl benzoate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Benzyl benzoate	5	3	42

Second-stage model

For differentiation of the substance/substance group *Benzyl benzoate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Benzyl benzoate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Benzyl benzoate	13099320	31208	40	1403156
Caelo	Benzyl benzoate	14029602	31435	60	20140207
Caelo	Benzyl benzoate	171562	33695	40	20170530*
Caelo	Benzyl benzoate	181819	34219	40	20180907*
Caelo	Benzyl benzoate	190546	34634	40	20190314*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 220 spectra of 5 reference samples from the substance/substance group *Benzyl benzoate*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 279 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Benzyl benzoate*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Benzyl benzoate	16140805	32959	40
Caelo	Benzyl benzoate	172351	33696	40
Caelo	Benzyl benzoate	21001835001	35743	50

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 63 spectra from 27 *Apo-Ident* customers from 42 batches from the substance/substance group *Benzyl benzoate*.

- Among them are spectra of independent samples from 42 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Bombastus	Benzyl benzoate	16140807	1
Caelo	Benzyl benzoate	11340415	1
Caelo	Benzyl benzoate	14029613	1
Caelo	Benzyl benzoate	15133401	1
Caelo	Benzyl benzoate	15243002	1
Caelo	Benzyl benzoate	15243005	1
Caelo	Benzyl benzoate	15243012	1
Caelo	Benzyl benzoate	15250301	1
Caelo	Benzyl benzoate	16140806	2
Caelo	Benzyl benzoate	16140807	1
Caelo	Benzyl benzoate	16140808	2
Caelo	Benzyl benzoate	16140810	2
Caelo	Benzyl benzoate	16250301	2
Caelo	Benzyl benzoate	17156204	1
Caelo	Benzyl benzoate	1723	1
Caelo	Benzyl benzoate	17235101	3
Caelo	Benzyl benzoate	18003001	1
Caelo	Benzyl benzoate	18003202	1
Caelo	Benzyl benzoate	19054602	5
Caelo	Benzyl benzoate	200000645005	1
Caelo	Benzyl benzoate	20000645001	1
Caelo	Benzyl benzoate	20000645002	1
Caelo	Benzyl benzoate	20000645004	2
Caelo	Benzyl benzoate	20000645005	1
Caelo	Benzyl benzoate	2003862003	1
Caelo	Benzyl benzoate	21001835001	1
Caelo	Benzyl benzoate	90546001	1
Caesar & Loretz GmbH/Kr...	Benzyl benzoate	190546005	2
Caesar & Loretz GmbH	Benzyl benzoate	12141003	2
Caesar & Loretz GmbH	Benzyl benzoate	13099313	1
Caesar & Loretz GmbH	Benzyl benzoate	14029603	1
Caesar & Loretz GmbH	Benzyl benzoate	14029613	1
Caesar & Loretz GmbH	Benzyl benzoate	15133401	1
Caesar & Loretz GmbH	Benzyl benzoate	18003101	1
Caesar & Loretz GmbH	Benzyl benzoate	18181906	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Benzyl benzoate	190546004	1
Caesar & Loretz GmbH	Benzyl benzoate	19054605	3
Caesar & Loretz GmbH	Benzyl benzoate	19054607	3
Caesar & Loretz GmbH	Benzyl benzoate	20000645003	1
Gatt-Koller	Benzyl benzoate	KNC0919J18	1
Gehe	Benzyl benzoate	13099317	1
Gehe	Benzyl benzoate	15243003	1
Gehe	Benzyl benzoate	15243006	1
Phönix	Benzyl benzoate	12141008	1
Sanacorp	Benzyl benzoate	15243014	1

- 297 395 spectra from 1324 *Apo-Ident* customers from a total of 52 946 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Benzyl benzoate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Benzyl benzoate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	220	0	68 279
Type B	0	130	0	111 183
Type C	0	62	1	297 395

The substance/substance group *Benzyl benzoate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.2727 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6876 %)	98.4127 % (> 93.6508 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Benzyl benzoate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Substance	Distance in main model	Distance in second-stage model
Benzyl nicotinate	32.31	–
Bitter almond oil	61.21	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Benzyl benzoate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31208	31208	0.00	48.54
31435	31208	2.09	51.33
33695	33695	0.00	44.72
34219	34219	0.00	46.65
34634	34634	0.00	49.62

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Benzyl nicotinate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30502-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Benzyl nicotinate; Benzylis nicotinas

Special notes

When selecting the *Benzyl nicotinate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Benzyl nicotinate	5	3	44

Second-stage model

For differentiation of the substance/substance group *Benzyl nicotinate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Benzyl nicotinate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Benzyl nicotinate	13272502	31199	40	1403109
Caelo	Benzyl nicotinate	14112404	31383	40	20140407
Caelo	Benzyl nicotinate	16358301	32967	40	20170113
Caelo	Benzyl nicotinate	163583	33055	40	20170113*
Caelo	Benzyl nicotinate	191097	34450	40	20190614*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 200 spectra of 5 reference samples from the substance/substance group *Benzyl nicotinate*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 299 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Benzyl nicotinate*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Benzyl nicotinate	15444804	32592	40
Caelo	Benzyl nicotinate	16358302	32966	40
Caelo	Benzyl nicotinate	21002554002	35735	50

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 113 spectra from 69 *Apo-Ident* customers from 46 batches from the substance/substance group *Benzyl nicotinate*.

- Among them are spectra of independent samples from 44 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Anzag/ichthyol	Benzyl nicotinate	13035408	1
anzag	Benzyl nicotinate	12282802	1
Anzag	Benzyl nicotinate	12282802	1
Anzag	Benzyl nicotinate	16358302	1
Anzag	Benzyl nicotinate	17236704	1
Beiersdorf AG	Benzyl nicotinate	15293104	1
Caelo	Benzyl nicotinate	10111403	1
Caelo	Benzyl nicotinate	12142004	1
Caelo	Benzyl nicotinate	12142008	2
Caelo	Benzyl nicotinate	1217I-01176	1
Caelo	Benzyl nicotinate	12282802	2
Caelo	Benzyl nicotinate	12282804	1
Caelo	Benzyl nicotinate	13035402	3
Caelo	Benzyl nicotinate	13157201	1
Caelo	Benzyl nicotinate	13157205	3
Caelo	Benzyl nicotinate	13272502	2
Caelo	Benzyl nicotinate	14112404	1
Caelo	Benzyl nicotinate	14112405	1
Caelo	Benzyl nicotinate	14112408	4
Caelo	Benzyl nicotinate	15124402	5
Caelo	Benzyl nicotinate	15124408	1
Caelo	Benzyl nicotinate	1529304	1
Caelo	Benzyl nicotinate	15293104	1
Caelo	Benzyl nicotinate	15444803	1
Caelo	Benzyl nicotinate	15444804	4
Caelo	Benzyl nicotinate	16154409	1
Caelo	Benzyl nicotinate	16358302	8
Caelo	Benzyl nicotinate	16358308	3
Caelo	Benzyl nicotinate	17191405	1
Caelo	Benzyl nicotinate	17236704	3
Caelo	Benzyl nicotinate	17236705	1
Caelo	Benzyl nicotinate	17236707	3
Caelo	Benzyl nicotinate	18032104	1
Caelo	Benzyl nicotinate	18032105	3
Caelo	Benzyl nicotinate	18032110	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Benzyl nicotinate	18032112	2
Caelo	Benzyl nicotinate	180321125750	1
Caelo	Benzyl nicotinate	18215204	2
Caelo	Benzyl nicotinate	19000599003	3
Caelo	Benzyl nicotinate	19028904	3
Caelo	Benzyl nicotinate	19028908	1
Caelo	Benzyl nicotinate	19028909	1
Caelo	Benzyl nicotinate	19109704	2
Caelo	Benzyl nicotinate	20002141003	3
Caelo	Benzyl nicotinate	2091301	1
Caelo	Benzyl nicotinate	40757015	1
Caesar & Loretz GmbH, A…	Benzyl nicotinate	18032104	1
Caesar & Loretz GmbH/Fi…	Benzyl nicotinate	19000599003	1
Caesar & Loretz GmbH/Fi…	Benzyl nicotinate	20002141003	1
Caesar & Loretz GmbH/Gehe	Benzyl nicotinate	19109704	1
Caesar & Loretz GmbH/Ph…	Benzyl nicotinate	19000599003	1
Caesar & Loretz GmbH/Sana	Benzyl nicotinate	20002141003	1
Caesar & Loretz GmbH	Benzyl nicotinate	19000599003	5
Caesar & Loretz GmbH	Benzyl nicotinate	19109704	3
Caesar & Loretz GmbH	Benzyl nicotinate	20002141003	1
Caesar & Loretz GmbH	Benzyl nicotinate	21002554002	2
Caesar Loretz Gmbh	Benzyl nicotinate	17191405	1
Fagron	Benzyl nicotinate	12I20-N01	1
Fagron	Benzyl nicotinate	18215206	1
Fiebig	Benzyl nicotinate	19028904	1
Gatt-Koller	Benzyl nicotinate	1803252	1
Noweda	Benzyl nicotinate	19000599003	1
Phönix 28.01.2014	Benzyl nicotinate	13272502	1
Phönix	Benzyl nicotinate	17236707	1
VDL	Benzyl nicotinate	12D25-N07	1

- 297 345 spectra from 1324 *Apo-Ident* customers from a total of 52 941 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Benzyl nicotinate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Benzyl nicotinate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	200	0	68 299
Type B	0	130	0	111 183
Type C	0	112	1	297 345

The substance/substance group *Benzyl nicotinate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6876 %)	99.1150 % (> 96.4602 %)

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Benzyl nicotinate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Benzyl benzoate	25.03	–
Cinnamon bark oil, Ceylon	52.20	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Benzyl nicotinate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31199	31199	0.00	31.05
31383	34450	2.94	28.66
32967	33055	1.55	32.61
33055	33055	0.00	32.98
34450	34450	0.00	30.19

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Bergamot oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31678-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Bergamot oil; Oleum citrus bergamia

Special notes

When selecting the *Bergamot oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Bergamot oil	4	2	47

Second-stage model

For differentiation of the substance/substance group *Bergamot oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Bergamot oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Bergamot oil	15042001	31678	60	AR-15-FG-008850-02
Caelo	Bergamot oil	15042001	31696	60	20150217
Caelo	Bergamot oil	16083611	33497	40	20160404
Caelo	Bergamot oil	16083611	33655	40	20160404
Caelo	Bergamot oil	190681	34445	40	20190312*
Caelo	Bergamot oil	192330	34705	40	20190828*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 280 spectra of 6 reference samples from the substance/substance group *Bergamot oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.

- 68 219 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Bergamot oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Bergamot oil	171992	33894	40
Caelo	Bergamot oil	180207	34230	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 136 spectra from 62 *Apo-Ident* customers from 49 batches from the substance/substance group *Bergamot oil*.
- Among them are spectra of independent samples from 47 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Bergamot oil	18020710	1
Bergland / Noweda	Bergamot oil	P911156	1
Bombastus	Bergamot oil	17199205	3
Bombastus	Bergamot oil	18001281	3
Bombastus	Bergamot oil	1801281	1
Bombastus	Bergamot oil	19000361	6
Bombastus	Bergamot oil	19001360	1
Bombastus	Bergamot oil	190033632	1
Bombastus	Bergamot oil	19003632	5
Bombastus	Bergamot oil	19006566	1
Bombastus	Bergamot oil	19006566702	1
Bombastus	Bergamot oil	19006588	1
Bombastus	Bergamot oil	21001126	1
Bombastus	Bergamot oil	300470	1
Bombastus	Bergamot oil	309494	1
Bombastus	Bergamot oil	309941	7
Caelo	Bergamot oil	14125805	2
Caelo	Bergamot oil	15042001	3
Caelo	Bergamot oil	15042002	1
Caelo	Bergamot oil	15042008	2
Caelo	Bergamot oil	15042011	3
Caelo	Bergamot oil	16083601	14
Caelo	Bergamot oil	16083611	1
Caelo	Bergamot oil	17199201	1
Caelo	Bergamot oil	17199204	5
Caelo	Bergamot oil	18020702	10
Caelo	Bergamot oil	18020709	1
Caelo	Bergamot oil	18020710	6
Caelo	Bergamot oil	18020711	1
Caelo	Bergamot oil	19068101	5
Caelo	Bergamot oil	19068105	5
Caelo	Bergamot oil	192330002	1
Caelo	Bergamot oil	192330004	5
Caelo	Bergamot oil	192330006	3
Caelo	Bergamot oil	192330010	4
Caelo	Bergamot oil	192330013	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Bergamot oil	19233013	1
Caelo	Bergamot oil	21000945007	3
Caelo	Bergamot oil	305910	1
Caeolo / Phönix	Bergamot oil	17199204	1
Caesar & Loretz GmbH/No...	Bergamot oil	19068105	1
Caesar & Loretz GmbH/Ph...	Bergamot oil	192330007	1
Caesar & Loretz GmbH	Bergamot oil	18020702	1
Caesar & Loretz GmbH	Bergamot oil	18020710	1
Caesar & Loretz GmbH	Bergamot oil	19068101	1
Caesar & Loretz GmbH	Bergamot oil	19068105	1
Caesar & Loretz GmbH	Bergamot oil	192330006	2
Ebert	Bergamot oil	297727	1
Fagron	Bergamot oil	D01BE14M-12143B	1
Primavera/Direkt	Bergamot oil	892H24	1
Taoasis GmbH	Bergamot oil	18110048-8248	2
Taoasis	Bergamot oil	1700901-4097	1
Taoasis	Bergamot oil	19045-8439	1
Taoasis	Bergamot oil	19821-122171	1
Taoasis	Bergamot oil	20023-11905	1
Taoasis	Bergamot oil	53731-127819	1
Taoasis	Bergamot oil	5836	1

- 297 322 spectra from 1324 *Apo-Ident* customers from a total of 52 938 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Bergamot oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Bergamot oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	280	0	68 219
Type B	0	80	0	111 233
Type C	0	136	0	297 322

The substance/substance group *Bergamot oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.8571 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 95.5882 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to

exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Bergamot oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Juniper oil	26.79	–
Bitter orange oil	47.64	–
Caraway oil	48.34	–
Dwarf pine oil	48.90	–
Spearmint oil	49.96	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Bergamot oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31678	31678	0.00	61.84
31696	31678	1.52	62.33
33497	31678	9.13	63.56
33655	31678	11.67	63.00
34445	34445	0.00	51.81
34705	34705	0.00	53.54

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Bitter almond oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`10005952-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Bitter almond oil; Oleum Amygdalarum amararum

Special notes

When selecting the *Bitter almond oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Bitter almond oil	2	1	0

Second-stage model

For differentiation of the substance/substance group *Bitter almond oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Bitter almond oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Bitter almond oil	21000905	35787	50	20210305*
Caelo	Bitter almond oil	22002026	36507	40	20220706*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 90 spectra of 2 reference samples from the substance/substance group *Bitter almond oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 2 different batches.
- 68 409 spectra from a total of 1411 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 50 spectra of 1 reference samples from the substance/substance group *Bitter almond oil*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Bitter almond oil	19000707009	35745	50

- 111 263 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 0 spectra from 0 *Apo-Ident* customers from 0 batches from the substance/substance group *Bitter almond oil*.
- Among them are spectra of independent samples from 0 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.
- 297 458 spectra from 1324 *Apo-Ident* customers from a total of 52 987 batches from a further 344 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Bitter almond oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Bitter almond oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	90	0	68 409
Type B	0	50	0	111 263
Type C	0	0	0	297 458

The substance/substance group *Bitter almond oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9811 %)	100.0000 % (> 93.3333 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 88.0000 %)
Type C	100.0000 % (> 99.6899 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Bitter almond oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Benzyl benzoate	34.60	–
Methyl salicylate	61.40	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Bitter almond oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
35787	35787	0.00	55.72
36507	36507	0.00	55.54

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Bitter-fennel fruit oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30398-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Bitter-fennel fruit oil; Foeniculi amari fructus aetheroleum

Special notes

When selecting the *Bitter-fennel fruit oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Bitter-fennel fruit oil	6	3	33

Second-stage model

For differentiation of the substance/substance group *Bitter-fennel fruit oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Bitter-fennel fruit oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Bitter-fennel fr...	295236	32922	40	1704221
Bombastus	Bitter-fennel fr...	18003219	34520	40	125095
Bombastus	Bitter-fennel fr...	20004137	35263	40	20200911
Caelo	Bitter-fennel fr...	14190402	31706	60	20140625
Caelo	Bitter-fennel fr...	15160103	31805	60	1703170
Caelo	Bitter-fennel fr...	21003435	35789	50	20211029*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 290 spectra of 6 reference samples from the substance/substance group *Bitter-fennel fruit oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 209 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Bitter-fennel fruit oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Bitter-fennel fruit oil	16008606	32961	40
Caelo	Bitter-fennel fruit oil	171809	33680	40
Caelo	Bitter-fennel fruit oil	191763	34650	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 84 spectra from 54 *Apo-Ident* customers from 35 batches from the substance/substance group *Bitter-fennel fruit oil*.
- Among them are spectra of independent samples from 33 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Bombastus	Bitter-fennel fruit oil	18003219	1
Bombastus	Bitter-fennel fruit oil	274253	1
Bombastus	Bitter-fennel fruit oil	278909	2
Bombastus	Bitter-fennel fruit oil	281715	1
Bombastus	Bitter-fennel fruit oil	285544	1
Bombastus	Bitter-fennel fruit oil	289232	1
Bombastus	Bitter-fennel fruit oil	291598	1
Caelo	Bitter-fennel fruit oil	11079207	1
Caelo	Bitter-fennel fruit oil	12061412	1
Caelo	Bitter-fennel fruit oil	12218103	1
Caelo	Bitter-fennel fruit oil	12218104	4
Caelo	Bitter-fennel fruit oil	12370303	1
Caelo	Bitter-fennel fruit oil	12370306	4
Caelo	Bitter-fennel fruit oil	12370312	1
Caelo	Bitter-fennel fruit oil	14190401	1
Caelo	Bitter-fennel fruit oil	14190402	3
Caelo	Bitter-fennel fruit oil	15160101	2
Caelo	Bitter-fennel fruit oil	15160106	2
Caelo	Bitter-fennel fruit oil	16008601	3
Caelo	Bitter-fennel fruit oil	16008606	7
Caelo	Bitter-fennel fruit oil	16008608	3
Caelo	Bitter-fennel fruit oil	17180901	6
Caelo	Bitter-fennel fruit oil	17337601	7
Caelo	Bitter-fennel fruit oil	17337606	3
Caelo	Bitter-fennel fruit oil	17337608	1
Caelo	Bitter-fennel fruit oil	18277905	2
Caelo	Bitter-fennel fruit oil	18277907	2
Caelo	Bitter-fennel fruit oil	191763002	3
Caelo	Bitter-fennel fruit oil	191763003	1
Caelo	Bitter-fennel fruit oil	19176301	2
Caelo	Bitter-fennel fruit oil	20004125002	2
Caelo	Bitter-fennel fruit oil	24101403	1
Caelo	Bitter-fennel fruit oil	268017	1
Caesar & Loretz GmbH	Bitter-fennel fruit oil	18277902	1
Caesar & Loretz GmbH	Bitter-fennel fruit oil	18277905	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Bitter-fennel fruit oil	20004125002	1
Celo / Kehr	Bitter-fennel fruit oil	12370314	1
Gehe	Bitter-fennel fruit oil	16008601	1
Gehe	Bitter-fennel fruit oil	291598	1
Noweda	Bitter-fennel fruit oil	18277902	1
Phönix	Bitter-fennel fruit oil	17180901	1
Sanacorp	Bitter-fennel fruit oil	16008606	1
Sanacorp	Bitter-fennel fruit oil	17337601	1
Sanacorp	Bitter-fennel fruit oil	278909	1

- 297 374 spectra from 1324 *Apo-Ident* customers from a total of 52 952 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Bitter-fennel fruit oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Bitter-fennel fruit oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	290	0	68 209
Type B	0	120	0	111 193
Type C	0	84	0	297 374

The substance/substance group *Bitter-fennel fruit oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.9310 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6876 %)	100.0000 % (> 92.8571 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Bitter-fennel fruit oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Star anise oil	29.97	–
Anise oil	42.52	–
Wormwood oil	82.82	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Bitter-fennel fruit oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31706	31805	1.68	68.11
31805	31805	0.00	67.35
32922	32922	0.00	49.80
34520	32922	12.16	50.10
35263	32922	6.85	48.87
35789	35789	0.00	71.78

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Cajeput (essentiel oil)**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31502-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Cajeput (essentiel oil); Oleum Cajeputi artificiale

Special notes

When selecting the *Cajeput (essentiel oil)* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Cajeput (essentiel oil)	2	3	12

Second-stage model

For differentiation of the substance/substance group *Cajeput (essentiel oil)* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Cajeput (essentiel oil)*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Cajeput (essenti...	13141409	31502	60	1412341
Caelo	Cajeput (essenti...	14225206	31605	60	20140730

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 120 spectra of 2 reference samples from the substance/substance group *Cajeput (essentiel oil)*. These samples are listed above in the *calibration samples* section. The reference samples come from 2 different batches.
- 68 379 spectra from a total of 1411 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Cajeput (essentiel oil)*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cajeput (essentiel oil)	162770	32688	40
Caelo	Cajeput (essentiel oil)	16277003	33620	40
Caelo	Cajeput (essentiel oil)	172410	33910	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 21 spectra from 9 *Apo-Ident* customers from 12 batches from the substance/substance group *Cajeput (essentiel oil)*.
- Among them are spectra of independent samples from 12 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Bombastus	Cajeput (essentiel oil)	20001840	1
Caelo	Cajeput (essentiel oil)	15063501	2
Caelo	Cajeput (essentiel oil)	16277004	1
Caelo	Cajeput (essentiel oil)	17241002	7
Caelo	Cajeput (essentiel oil)	17241004	2
Caelo	Cajeput (essentiel oil)	17241008	1
Caelo	Cajeput (essentiel oil)	21111818	1
Caesar & Loretz/Noweda	Cajeput (essentiel oil)	14225210	1
Fagron	Cajeput (essentiel oil)	15063511	1
Noweda	Cajeput (essentiel oil)	17241008	1
Taoasis	Cajeput (essentiel oil)	1518-122595	1
Taoasis	Cajeput (essentiel oil)	6781010-120111	1
Taoasis	Cajeput (essentiel oil)	6781012-119058	1

- 297 437 spectra from 1324 *Apo-Ident* customers from a total of 52 975 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Cajeput (essentiel oil)* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Cajeput (essentiel oil)* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	120	0	68 379
Type B	0	120	0	111 193
Type C	0	20	1	297 437

The substance/substance group *Cajeput (essentiel oil)* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6879 %)	95.2381 % (> 80.9524 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Cajeput (essentiel oil)* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Myrtle oil	17.98	–
Eucalyptus oil	19.49	–
Turpentine oil	21.12	–
Rosemary oil	21.66	–
Juniper wood oil	22.62	–
Cypress oil	32.65	–
Verbena oil, nature-identical	41.97	–
Peppermint oil	46.37	–
Cineole	47.57	–
Cedar wood oil	47.78	–
Acorus oil	47.88	–
Petroleum ether DAB	48.09	–
Dwarf pine oil	51.01	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Cajeput (essentiel oil)* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31502	31502	0.00	22.04
31605	31502	9.96	20.60

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Camphor oil 20%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30551-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Camphor oil 20%; Oleum camphoratum 20%

Special notes

When selecting the *Camphor oil 20%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Camphor oil 20%	3	2	27

Second-stage model

For differentiation of the substance/substance group *Camphor oil 20%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Camphor oil 20%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Camphor oil 20%	12261202	31154	40	1404534
Caelo	Camphor oil 20%	13369902	31347	60	20131112
Caelo	Camphor oil 20%	20003142002	35287	40	20201023

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 140 spectra of 3 reference samples from the substance/substance group *Camphor oil 20%*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 359 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Camphor oil 20%*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Camphor oil 20%	17083502	33494	40
Caelo	Camphor oil 20%	21003296	35948	40
Caelo	Camphor oil 20%	17083502	33495	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 193 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 113 spectra from 60 *Apo-Ident* customers from 29 batches from the substance/substance group *Camphor oil 20%*.

- Among them are spectra of independent samples from 27 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
ahd/lamotte	Camphor oil 20%	133699902	1
Caelo	Camphor oil 20%	12122502	6
Caelo	Camphor oil 20%	1226103	1
Caelo	Camphor oil 20%	12261203	2
Caelo	Camphor oil 20%	13039603	1
Caelo	Camphor oil 20%	13369902	4
Caelo	Camphor oil 20%	14028202	2
Caelo	Camphor oil 20%	14147303	3
Caelo	Camphor oil 20%	15056906	1
Caelo	Camphor oil 20%	15056907	12
Caelo	Camphor oil 20%	15246805	2
Caelo	Camphor oil 20%	15246809	7
Caelo	Camphor oil 20%	16085301	3
Caelo	Camphor oil 20%	16085302	6
Caelo	Camphor oil 20%	16316101	6
Caelo	Camphor oil 20%	16316102	1
Caelo	Camphor oil 20%	17083502	4
Caelo	Camphor oil 20%	17195105	3
Caelo	Camphor oil 20%	17301902	7
Caelo	Camphor oil 20%	17301903	2
Caelo	Camphor oil 20%	18143002	2
Caelo	Camphor oil 20%	18143005	2
Caelo	Camphor oil 20%	18143008	4
Caelo	Camphor oil 20%	19141301	3
Caelo	Camphor oil 20%	19141302	1
Caelo	Camphor oil 20%	192358004	1
Caelo	Camphor oil 20%	200031420002	1
Caelo	Camphor oil 20%	20003142002	3
Caelo	Camphor oil 20%	9250001	2
Caesar & Loretz GmbH/ F...	Camphor oil 20%	18143008	1
Caesar & Loretz GmbH/ Ph	Camphor oil 20%	18143005	1
Caesar & Loretz GmbH/No...	Camphor oil 20%	19141301	1
Caesar & Loretz GmbH	Camphor oil 20%	18143002	1
Caesar & Loretz GmbH	Camphor oil 20%	18143008	1
Caesar & Loretz GmbH	Camphor oil 20%	19141301	4
Caesar & Loretz GmbH	Camphor oil 20%	192358004	1
Cealo/AHD	Camphor oil 20%	16316101	1
Euro OTC	Camphor oil 20%	16085302	1
Fagron	Camphor oil 20%	17301902	1
Fiebig	Camphor oil 20%	17301902	2
gehe	Camphor oil 20%	15246805	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Camphor oil 20%	14147303	1
Phoenix	Camphor oil 20%	16316101	1
Phönix	Camphor oil 20%	13039603	1
Sanacorp	Camphor oil 20%	13039603	1

- 297 345 spectra from 1324 *Apo-Ident* customers from a total of 52 958 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Camphor oil 20%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Camphor oil 20%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	140	0	68 359
Type B	0	120	0	111 193
Type C	0	112	1	297 345

The substance/substance group *Camphor oil 20%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.7143 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6876 %)	99.1150 % (> 96.4602 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Camphor oil 20%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
all-rac-alpha-tocopheryl acetate	29.31	–
Petroleum oil, not for internal use	32.25	–

continued on the next page

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Substanz	Distance in main model	Distance in second-stage model
Guaiazulene 25%, water-soluble	46.61	–
Triglycerides, medium-chain	48.47	–
Peppermint oil	58.69	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Camphor oil 20%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31154	31154	0.00	30.10
31347	31154	2.78	29.40
35287	31154	6.45	28.19

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Camphor ointment**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`32515-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Camphor ointment; Unguentum camphoratum

Special notes

When selecting the *Camphor ointment* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Camphor ointment	3	1	4

Second-stage model

For differentiation of the substance/substance group *Camphor ointment* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Camphor ointment*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Camphor ointment	161773	32515	40	20160711*
Caelo	Camphor ointment	17045702	33224	40	20170214
Caelo	Camphor ointment	192250	35267	40	20190927

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 120 spectra of 3 reference samples from the substance/substance group *Camphor ointment*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.

- 68 379 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Camphor ointment*.

- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Camphor ointment	180955	34159	40

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 4 spectra from 2 *Apo-Ident* customers from 4 batches from the substance/substance group *Camphor ointment*.
- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Camphor ointment	1319I-03370	1
Caelo	Camphor ointment	1925003	1
Caelo	Camphor ointment	2215Q-03370	1
Caelo	Camphor ointment	4118I-03370	1

- 297 454 spectra from 1324 *Apo-Ident* customers from a total of 52 983 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Camphor ointment* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Camphor ointment* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	120	0	68 379
Type B	0	40	0	111 273
Type C	0	4	0	297 454

The substance/substance group *Camphor ointment* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.0000 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6897 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Camphor ointment* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Squalane	24.36	–
Wool fat	28.79	–
Triglycerides, medium-chain	32.28	–
Camphor oil 20%	36.08	–
Isopropyl myristate	40.26	–
Isopropyl palmitate	41.33	–
Emulsifying hydrophobic base gel DAC	45.20	–
2-ethylhexyl laurate	45.82	–
Hydrophobic base gel DAC	46.64	–
Hydrophilic ointment DAB	49.19	–
Pasta Cordes®	49.84	–
Metronidazole 25% in white petrolatum	51.41	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Camphor ointment* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
32515	32515	0.00	22.56
33224	32515	7.62	27.77
35267	32515	5.96	22.51

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Camphor spirit**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30937-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Camphor spirit; Spiritus camphoratus

Special notes

When selecting the *Camphor spirit* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Camphor spirit	6	2	56

Second-stage model

For differentiation of the substance/substance group *Camphor spirit* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Camphor spirit*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Camphor spirit	12196804	30937	50	20120721
Caelo	Camphor spirit	13354201	31389	40	1506005
Caelo	Camphor spirit	16039501	32307	40	20160229
Caelo	Camphor spirit	20002801	35254	40	20200922*
Euro OTC	Camphor spirit	1506006	31700	60	20150625*
Euro OTC	Camphor spirit	1506007	31701	60	20150625*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 290 spectra of 6 reference samples from the substance/substance group *Camphor spirit*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 209 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Camphor spirit*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Camphor spirit	170923	33327	40
Caelo	Camphor spirit	182721	34328	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 144 spectra from 78 *Apo-Ident* customers from 59 batches from the substance/substance group *Camphor spirit*.
- Among them are spectra of independent samples from 56 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Anzag ek:13.14EUR 14.08.12	Camphor spirit	11347401	1
ANZAG	Camphor spirit	121002801	1
Caela/ Noweda	Camphor spirit	17318502	1
Caelo	Camphor spirit		1
Caelo	Camphor spirit	10058403	1
Caelo	Camphor spirit	10514C	1
Caelo	Camphor spirit	11347401	1
Caelo	Camphor spirit	12196803	4
Caelo	Camphor spirit	12196804	1
Caelo	Camphor spirit	13354204	2
Caelo	Camphor spirit	13354206	1
Caelo	Camphor spirit	13354210	1
Caelo	Camphor spirit	16039501	1
Caelo	Camphor spirit	16039505	2
Caelo	Camphor spirit	16141101	1
Caelo	Camphor spirit	16141105	3
Caelo	Camphor spirit	16141106	2
Caelo	Camphor spirit	17092302	3
Caelo	Camphor spirit	17092303	6
Caelo	Camphor spirit	17092305	7
Caelo	Camphor spirit	17318502	5
Caelo	Camphor spirit	17318503	2
Caelo	Camphor spirit	17318506	2
Caelo	Camphor spirit	18272101	10
Caelo	Camphor spirit	18272104	2
Caelo	Camphor spirit	18272105	1
Caelo	Camphor spirit	1872101	1
Caelo	Camphor spirit	191396002	1
Caelo	Camphor spirit	19139601	4
Caelo	Camphor spirit	19139602	2
Caelo	Camphor spirit	19139605	1
Caelo	Camphor spirit	20002801003	3
Caelo	Camphor spirit	20002801004	2
Caelo	Camphor spirit	20002801005	2
Caelo	Camphor spirit	22101201	1
Caelo	Camphor spirit	30101309	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Camphor spirit	5031507	1
Caelo	Camphor spirit	62143436	1
Caesar & Loretz GmbH	Camphor spirit	18272101	2
Caesar & Loretz GmbH	Camphor spirit	19136002	1
Caesar & Loretz GmbH	Camphor spirit	19139601	1
Caesar & Loretz GmbH	Camphor spirit	19139604	1
Caesar & Loretz GmbH	Camphor spirit	19139605	1
Caesar & Loretz GmbH	Camphor spirit	20002801004	1
Caesar & Loretz GmbH	Camphor spirit	20002801005	2
Caleo/ Anzag	Camphor spirit	11347401	1
EIGEN	Camphor spirit	4220E-02319	1
Eigen	Camphor spirit	5016E-02319	1
EIGEN	Camphor spirit	EIGEN	1
Eu Rho	Camphor spirit	1405029-01	1
EuRho	Camphor spirit	1307039-01	1
Euro OCT	Camphor spirit	1210028-01	1
Euro OTC	Camphor spirit	110022-02	1
Euro OTC	Camphor spirit	1108022-01	1
Euro OTC	Camphor spirit	1108022-02	1
Euro OTC	Camphor spirit	1210028-01	6
Euro OTC	Camphor spirit	121028-01	1
Euro OTC	Camphor spirit	1301024-02	2
Euro OTC	Camphor spirit	1307039-01	4
Euro OTC	Camphor spirit	1307040	1
Euro OTC	Camphor spirit	1307040-01	3
Euro OTC	Camphor spirit	1405029-01	4
Euro OTC	Camphor spirit	1405030	1
Euro OTC	Camphor spirit	1405030-01	3
Euro OTC	Camphor spirit	140503010	1
Euro OTC	Camphor spirit	140503-03	1
Euro OTC	Camphor spirit	1506006-01	6
Euro OTC	Camphor spirit	19071208	1
Fagron	Camphor spirit	17092303	1
GEHE	Camphor spirit	1301024-02	1
Noweda	Camphor spirit	20002801003	1
Phoenix 03.12.12	Camphor spirit	1307039-01	1
PKH GmbH	Camphor spirit	1405030-01	1
Sanacorp	Camphor spirit	1210026-01	1
Spreewälder/AHD	Camphor spirit	1301024-02	1
SprewälderArzneimittel ...	Camphor spirit	702110	1

- 297 314 spectra from 1324 *Apo-Ident* customers from a total of 52 930 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Camphor spirit* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Camphor spirit* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	290	0	68 209
Type B	0	80	0	111 233
Type C	0	142	2	297 314

The substance/substance group *Camphor spirit* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.9310 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6875 %)	98.6111 % (> 96.5278 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Camphor spirit* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Isopropyl alcohol 70%	54.60	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Camphor spirit* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30937	31701	5.09	62.14
31389	31389	0.00	63.32
31700	31700	0.00	59.73
31701	31701	0.00	60.51
32307	31389	5.74	64.65
35254	35254	0.00	62.23

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Caraway oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30876-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Caraway oil; Carvi aetheroleum

Special notes

When selecting the *Caraway oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Caraway oil	3	4	109

Second-stage model

For differentiation of the substance/substance group *Caraway oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Caraway oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Caraway oil	12043508	31024	40	AR-14-FG-012307-01
Caelo	Caraway oil	14166811	31666	60	20140604
Fagron	Caraway oil	12J22-N03	30876	39	20121025

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 139 spectra of 3 reference samples from the substance/substance group *Caraway oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 360 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 170 spectra of 4 reference samples from the substance/substance group *Caraway oil*.
- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Caraway oil	21002966	36192	40
Caelo	Caraway oil	16252906	33252	40
Caelo	Caraway oil	181649	34229	40
Caelo	Caraway oil	20004511009	35744	50

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 143 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 295 spectra from 146 *Apo-Ident* customers from 112 batches from the substance/substance group *Caraway oil*.
- Among them are spectra of independent samples from 109 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Caraway oil	81816288	1
Bombastus	Caraway oil	17001363	3
Bombastus	Caraway oil	17001364	2
Bombastus	Caraway oil	18001017	1
Bombastus	Caraway oil	18004843	8
Bombastus	Caraway oil	19002890	1
Bombastus	Caraway oil	19006263	2
Bombastus	Caraway oil	20005147	1
Bombastus	Caraway oil	21002966	1
Bombastus	Caraway oil	268955	1
Bombastus	Caraway oil	270424	3
Bombastus	Caraway oil	272320	1
Bombastus	Caraway oil	274361	1
Bombastus	Caraway oil	276856	3
Bombastus	Caraway oil	280523	1
Bombastus	Caraway oil	284758	4
Bombastus	Caraway oil	287725	1
Bombastus	Caraway oil	287889	1
Bombastus	Caraway oil	290759	1
Bombastus	Caraway oil	291934	5
Bombastus	Caraway oil	295058	6
Bombastus	Caraway oil	295572	1
Bombastus	Caraway oil	297505	3
Bombastus	Caraway oil	299607	1
Bombastus	Caraway oil	299609	1
Bombastus	Caraway oil	300797	5
Bombastus	Caraway oil	303305	8
Bombastus	Caraway oil	308593	1
Bombastus	Caraway oil	308902	5
Caelo	Caraway oil	10319108	1
Caelo	Caraway oil	10319115	2
Caelo	Caraway oil	10319116	1
Caelo	Caraway oil	10319117	1
Caelo	Caraway oil	10319118	4
Caelo	Caraway oil	10319120	2
Caelo	Caraway oil	1041705	1
Caelo	Caraway oil	12013508	1
Caelo	Caraway oil	12043502	1
Caelo	Caraway oil	12043503	4
Caelo	Caraway oil	12043507	3
Caelo	Caraway oil	12043508	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Caraway oil	12043511	8
Caelo	Caraway oil	12043512	1
Caelo	Caraway oil	12043513	9
Caelo	Caraway oil	12043516	1
Caelo	Caraway oil	12043518	1
Caelo	Caraway oil	14166802	4
Caelo	Caraway oil	14166803	3
Caelo	Caraway oil	14166806	2
Caelo	Caraway oil	14166807	1
Caelo	Caraway oil	14166810	3
Caelo	Caraway oil	14166811	1
Caelo	Caraway oil	14166812	1
Caelo	Caraway oil	1508506	1
Caelo	Caraway oil	15085703	1
Caelo	Caraway oil	15085704	4
Caelo	Caraway oil	15085706	2
Caelo	Caraway oil	15085707	4
Caelo	Caraway oil	15085709	3
Caelo	Caraway oil	15085710	5
Caelo	Caraway oil	15085713	2
Caelo	Caraway oil	15085714	1
Caelo	Caraway oil	16252902	6
Caelo	Caraway oil	16252903	4
Caelo	Caraway oil	16252904	1
Caelo	Caraway oil	16252906	4
Caelo	Caraway oil	16252909	2
Caelo	Caraway oil	16252910	5
Caelo	Caraway oil	16252917	5
Caelo	Caraway oil	16252918	2
Caelo	Caraway oil	1625903	1
Caelo	Caraway oil	17001363	3
Caelo	Caraway oil	17101301	1
Caelo	Caraway oil	17321902	1
Caelo	Caraway oil	18164090	1
Caelo	Caraway oil	18164901	8
Caelo	Caraway oil	18164902	4
Caelo	Caraway oil	18164905	2
Caelo	Caraway oil	18164907	1
Caelo	Caraway oil	18164909	4
Caelo	Caraway oil	18164913	6
Caelo	Caraway oil	18164914	2
Caelo	Caraway oil	19121207	1
Caelo	Caraway oil	20001729001	3
Caelo	Caraway oil	20001729003	2
Caelo	Caraway oil	20004511001	4
Caelo	Caraway oil	20004511002	1
Caelo	Caraway oil	20004511003	2
Caelo	Caraway oil	20004511008	1
Caelo	Caraway oil	2011903	1
Caelo	Caraway oil	2031504	1
Caelo	Caraway oil	21003934002	1
Caelo	Caraway oil	22051306	1
Caelo	Caraway oil	27041503	1
Caelo	Caraway oil	28091205	1
Caelo	Caraway oil	291934	5
Caelo	Caraway oil	297505	1
Caelo	Caraway oil	300797	1
Caelo	Caraway oil	5091402	1
Caelo	Caraway oil	6091401	1
Caesar & Loretz GmbH/No...	Caraway oil	18164902	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Caraway oil	18164901	1
Caesar & Loretz GmbH	Caraway oil	18164902	1
Caesar & Loretz GmbH	Caraway oil	18164910	1
Caesar & Loretz GmbH	Caraway oil	18164913	2
Caesar & Loretz GmbH	Caraway oil	20001729003	1
Caesar & Loretz GmbH	Caraway oil	20004511001	1
Caesar & Loretz GmbH	Caraway oil	20004511002	1
Caesar/Noweda	Caraway oil	712Q-01968	2
Cealo/Gehe	Caraway oil	16252909	1
Euro OTC	Caraway oil	17001363	1
Fagron	Caraway oil	11/13-N03	2
Fagron	Caraway oil	11A19-N08	1
Fagron	Caraway oil	11L13-N03	2
Fagron	Caraway oil	12J22N03	2
Fagron	Caraway oil	12J22-N03	1
Fagron	Caraway oil	12J2-N03	1
Fagron	Caraway oil	13C08-N03	3
Fagron	Caraway oil	13c08-N08	1
Fagron	Caraway oil	13E06-N13	1
Fagron	Caraway oil	287725	1
Fagron	Caraway oil	295058	1
Fagron	Caraway oil	6999440	1
Fiebig	Caraway oil	15085707	1
Fiebig	Caraway oil	308902	1
Gatt-Koller	Caraway oil	1801492	2
Gehe	Caraway oil	14166811	1
GEHE	Caraway oil	18164901	1
Klenk	Caraway oil	274361	1
Kögl	Caraway oil	49303161217	1
Kögl	Caraway oil	49303162716	1
L12	Caraway oil	16252903	1
Nachprüfung	Caraway oil	15085713	1
Noweda	Caraway oil	18164905	1
Noweda	Caraway oil	18164909	1
Phönix	Caraway oil	12043511	1
Phönix	Caraway oil	12J22-N03	1
Phönix	Caraway oil	16252909	1
Phönix	Caraway oil	276856	1
Schubert	Caraway oil	1031E0-801	1

- 297 163 spectra from 1324 *Apo-Ident* customers from a total of 52 876 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Caraway oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Caraway oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	139	0	68 360
Type B	0	170	0	111 143
Type C	0	291	4	297 163

The substance/substance group *Caraway oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.6835 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.4706 %)
Type C	100.0000 % (> 99.6875 %)	98.6441 % (> 97.6271 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Caraway oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Citric oil	32.70	–
Spearmint oil	33.23	–
Bitter orange oil	34.54	–
Grapefruit oil	39.56	–
Dwarf pine oil	44.45	–
Sweet orange oil	45.95	–
Bergamot oil	51.24	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Caraway oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30876	31024	7.77	33.11
31024	31024	0.00	35.66
31666	31024	11.64	33.23

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Castor oil, virgin / Sorbitan- and glycerol monooleate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30741-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Castor oil, virgin / Sorbitan- and glycerol monooleate; Castor oil, refined; Castor oil, virgin; Ricini oleum raffinatum; Ricini oleum virginale; Sorbitan- and glycerol monooleate

Special notes

When selecting the *Castor oil, virgin / Sorbitan- and glycerol monooleate* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Castor oil, virgin / Sorbitan- and glycerol monooleate	17	33	643

Second-stage model

For differentiation of the substance/substance group *Castor oil, virgin / Sorbitan- and glycerol monooleate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Castor oil, virgin / Sorbitan- and glycerol monooleate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Castor oil, refi...	162362	32344	40	20160818*
Caelo	Castor oil, refi...	163146	33072	40	20161121*
Caelo	Castor oil, refi...	20001513	35029	40	20200527*
Caelo	Castor oil, refi...	21000789	35284	40	20210406*
Caelo	Castor oil, refi...	21000100	35296	40	20210122*
Caelo	Castor oil, virgin	14020104	36338	40	AR-15-FG-005211-01
Caelo	Castor oil, virgin	21001404	36359	50	20210429*
Caelo	Castor oil, virgin	21002000	36360	50	20210702*
Euro OTC	Castor oil, virgin	1509003	36339	60	20150918*
Euro OTC	Castor oil, virgin	1512024	36341	60	20160111*
Euro OTC	Castor oil, virgin	1611005	36346	40	20161208*
Euro OTC	Castor oil, virgin	1902019	36351	40	20190329*
Caelo	Sorbitan- and gl...	14202402	31574	60	AR-15-FG-009320-01
Caelo	Sorbitan- and gl...	15122301	31726	60	20150420
Caelo	Sorbitan- and gl...	16234301	33454	40	20160829
Caelo	Sorbitan- and gl...	16234301	33455	40	20160829
Caelo	Sorbitan- and gl...	190802	34534	40	20190411*
Caelo	Sorbitan- and gl...	192210	34771	40	20190909*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 820 spectra of 18 reference samples from the substance/substance group *Castor oil, virgin / Sorbitan- and glycerol monooleate*. These samples are listed above in the *calibration samples* section. The reference samples come from 17 different batches.

- 67 679 spectra from a total of 1396 batches from further 226 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 1370 spectra of 33 reference samples from the substance/substance group *Castor oil, virgin / Sorbitan- and glycerol monooleate.*
- Among them are spectra of independent samples from 33 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Castor oil, refined	21003348	36190	40
Caelo	Castor oil, refined	12149306	30776	40
Caelo	Castor oil, refined	14304807	31751	60
Caelo	Castor oil, refined	160922	32207	40
Caelo	Castor oil, refined	161672	32312	40
Caelo	Castor oil, refined	162731	32681	40
Caelo	Castor oil, refined	170272	33071	40
Caelo	Castor oil, refined	171899	33678	40
Caelo	Castor oil, refined	192831	34738	40
Caelo	Castor oil, refined	21002982	35833	50
Caelo	Castor oil, refined	22000815	36075	40
Caelo	Castor oil, refined	22001601	36533	40
Caelo	Castor oil, virgin	12114603	36337	40
Caelo	Castor oil, virgin	161028	36343	40
Caelo	Castor oil, virgin	162000	36344	40
Caelo	Castor oil, virgin	170271	36347	40
Caelo	Castor oil, virgin	191326	36352	40
Caelo	Castor oil, virgin	191970	36353	40
Caelo	Castor oil, virgin	192511	36354	40
Caelo	Castor oil, virgin	20000498	36355	40
Caelo	Castor oil, virgin	20001240	36356	40
Caelo	Castor oil, virgin	20002353	36357	40
Caelo	Castor oil, virgin	21000493	36358	40
Caelo	Castor oil, virgin	22000100	36361	40
Caelo	Castor oil, virgin	22001066	36362	40
Euro OTC	Castor oil, virgin	1604019	36342	40
Euro OTC	Castor oil, virgin	1705035	36348	40
Euro OTC	Castor oil, virgin	1801007	36349	40
Euro OTC	Castor oil, virgin	1807003-01	36350	40
Fagron	Castor oil, virgin	15D02-B02-314240	36340	60
Fagron	Castor oil, virgin	16J12-B01-328159	36345	40
Caelo	Sorbitan- and glycerol monoo…	17132202	33936	40
Caelo	Sorbitan- and glycerol monoo…	182151	34252	40

- 109 943 spectra from a total of 2633 batches from further 348 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information

provided by the customer regarding manufacturer and batch number.

- 4075 spectra from 840 *Apo-Ident* customers from 649 batches from the substance/substance group *Castor oil, virgin / Sorbitan- and glycerol monooleate.*
- Among them are spectra of independent samples from 639 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Castor oil, refined	13341606	1
	Castor oil, refined	288126	1
	Castor oil, refined	60082103	1
13.10.2016 Phoenix 3,77EUR	Castor oil, refined	1512024-02	1
ACM	Castor oil, refined	KNC0899J15	1
AEP Direkt	Castor oil, refined	20005113	1
AEPDirekt	Castor oil, refined	19006129	2
AHC	Castor oil, refined	1807003-01	1
AHD 27.11.14 EK 2,53	Castor oil, refined	1407053-01	1
AHD/Caealo 15.08.14	Castor oil, refined	14020109	1
AHD/Lamotte	Castor oil, refined	1000009899	1
AHD	Castor oil, refined	1000005818	1
AHD	Castor oil, refined	14199604	2
ALH	Castor oil, refined	1000002766	1
ALH	Castor oil, refined	1000004198	2
Alliance Healthcare	Castor oil, refined	1512024-02	1
Alliance	Castor oil, refined	300629	1
AllianceHealthcare	Castor oil, refined	15144304	1
Allianz Healthcare	Castor oil, refined	16102804	1
Allianz Healthcare	Castor oil, refined	19002830	1
Allianz Healthcare	Castor oil, refined	6861795	1
Allianz	Castor oil, refined	18001340	1
Alte Apotheke	Castor oil, refined	1000002384	1
antares-apotheke Ler	Castor oil, refined	17H22-B01-341158	1
antares-apotheke Ler	Castor oil, refined	17K27-B01-352719	1
Anzag 04.03.2014	Castor oil, refined	1308019-02	1
Anzag/Henry Lamotte	Castor oil, refined	1504006-02	1
Anzag	Castor oil, refined	16016207	1
Anzag	Castor oil, refined	19132603	1
Anzag	Castor oil, refined	19251102	1
Anzag	Castor oil, refined	292409	1
Anzag	Castor oil, refined	305230	1
Anzag	Castor oil, refined	5334001	4
apo-ident/Gehe	Castor oil, refined	1801007-01	1
apoident	Castor oil, refined	1807003-01	1
apomix	Sorbitan- and glycerol monoo...	10118	5
apomix	Sorbitan- and glycerol monoo...	10420	1
apomix	Sorbitan- and glycerol monoo...	10719	4
apomix	Sorbitan- and glycerol monoo...	11116	7
apomix	Castor oil, refined	1A160119	1
apomix	Castor oil, refined	1A170321	1
apomix	Sorbitan- and glycerol monoo...	20515	3
apomix	Sorbitan- and glycerol monoo...	21115	3
apomix	Castor oil, refined	2A180320	1
apomix	Castor oil, refined	3A150518	1
apomix	Castor oil, refined	5A020920	2
apomix	Castor oil, refined	6A081020	2
apomix	Castor oil, refined	6A250719	1
apomix	Castor oil, refined	7A090919	1
apomix	Castor oil, refined	8A281220	1
Aponorm	Castor oil, refined	17H22-B01-341047	1
Bären Apotheke	Castor oil, refined	1611005-01	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bom	Castor oil, refined	280791	1
Bomastus AHD	Castor oil, refined	19002830	2
Bomastus	Castor oil, refined	19002830	2
Bomastus	Castor oil, refined	297429	5
Bomastus-Werke AG	Castor oil, refined	307456	1
Bomastus-Werke/Phönix	Castor oil, refined	300629	1
Bombas/AHD	Castor oil, refined	20005113	2
Bombas/Phoenix	Castor oil, refined	20002401	2
Bombas	Castor oil, refined	278660	1
Bombastus	Castor oil, refined	104356	1
Bombastus	Castor oil, refined	110816-3	1
Bombastus	Castor oil, refined	135(20002401)	1
Bombastus	Castor oil, refined	136(20002401)	1
Bombastus	Castor oil, refined	1412006-01	1
Bombastus	Castor oil, refined	161101R/301591	1
Bombastus	Castor oil, refined	17001710	3
Bombastus	Castor oil, refined	17001711	27
Bombastus	Castor oil, refined	17002279	2
Bombastus	Castor oil, refined	1700228	1
Bombastus	Castor oil, refined	17002280	15
Bombastus	Castor oil, refined	18001339	16
Bombastus	Castor oil, refined	18001340	68
Bombastus	Castor oil, refined	18003728	1
Bombastus	Castor oil, refined	18003729	6
Bombastus	Castor oil, refined	18003730	38
Bombastus	Castor oil, refined	18006813	2
Bombastus	Castor oil, refined	18006814	8
Bombastus	Castor oil, refined	18006815	34
Bombastus	Castor oil, refined	18007370	1
Bombastus	Castor oil, refined	180306R/311684	1
Bombastus	Castor oil, refined	190002830	1
Bombastus	Castor oil, refined	19002829	10
Bombastus	Castor oil, refined	19002830	59
Bombastus	Castor oil, refined	19006127	2
Bombastus	Castor oil, refined	19006128	11
Bombastus	Castor oil, refined	19006129	38
Bombastus	Castor oil, refined	190061795	1
Bombastus	Castor oil, refined	1902019-01	1
Bombastus	Castor oil, refined	20002400	2
Bombastus	Castor oil, refined	20002401	43
Bombastus	Castor oil, refined	20005112	4
Bombastus	Castor oil, refined	20005113	34
Bombastus	Castor oil, refined	21003346	2
Bombastus	Castor oil, refined	21003347	1
Bombastus	Castor oil, refined	21003348	12
Bombastus	Castor oil, refined	22001702	1
Bombastus	Castor oil, refined	220419(21003348)	1
Bombastus	Castor oil, refined	221102(20005113)	1
Bombastus	Castor oil, refined	2401	1
Bombastus	Castor oil, refined	268699	1
Bombastus	Castor oil, refined	270580	1
Bombastus	Castor oil, refined	271753	2
Bombastus	Castor oil, refined	273389	2
Bombastus	Castor oil, refined	273390	5
Bombastus	Castor oil, refined	273881	2
Bombastus	Castor oil, refined	273882	9
Bombastus	Castor oil, refined	275937	10
Bombastus	Castor oil, refined	275938	12
Bombastus	Castor oil, refined	278660	3
Bombastus	Castor oil, refined	278661	12

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Castor oil, refined	280791	17
Bombastus	Castor oil, refined	281943	15
Bombastus	Castor oil, refined	281944	7
Bombastus	Castor oil, refined	283620	7
Bombastus	Castor oil, refined	284505	7
Bombastus	Castor oil, refined	285757	3
Bombastus	Castor oil, refined	285801	12
Bombastus	Castor oil, refined	287167	10
Bombastus	Castor oil, refined	288126	16
Bombastus	Castor oil, refined	288638	6
Bombastus	Castor oil, refined	288639	16
Bombastus	Castor oil, refined	290212	4
Bombastus	Castor oil, refined	290213	17
Bombastus	Castor oil, refined	290714a	1
Bombastus	Castor oil, refined	291722	18
Bombastus	Castor oil, refined	292409	16
Bombastus	Castor oil, refined	294667	8
Bombastus	Castor oil, refined	294668	15
Bombastus	Castor oil, refined	295412	27
Bombastus	Castor oil, refined	296751	18
Bombastus	Castor oil, refined	29730	1
Bombastus	Castor oil, refined	297429	2
Bombastus	Castor oil, refined	297430	11
Bombastus	Castor oil, refined	298698	9
Bombastus	Castor oil, refined	298699	31
Bombastus	Castor oil, refined	300628	3
Bombastus	Castor oil, refined	300629	29
Bombastus	Castor oil, refined	301587	6
Bombastus	Castor oil, refined	301590	5
Bombastus	Castor oil, refined	301591	28
Bombastus	Castor oil, refined	303857	5
Bombastus	Castor oil, refined	303858	28
Bombastus	Castor oil, refined	30457	1
Bombastus	Castor oil, refined	305229	7
Bombastus	Castor oil, refined	305230	34
Bombastus	Castor oil, refined	307456	10
Bombastus	Castor oil, refined	307457	25
Bombastus	Castor oil, refined	30825	1
Bombastus	Castor oil, refined	308824	8
Bombastus	Castor oil, refined	308825	50
Bombastus	Castor oil, refined	311683	2
Bombastus	Castor oil, refined	311684	37
Bombastus	Castor oil, refined	3888	1
Bombastus	Castor oil, refined	415Q-02009	1
Bombastus	Castor oil, refined	4958	2
Bombastus	Castor oil, refined	60082102	1
Bombastus	Castor oil, refined	60082103	6
Bombastus	Castor oil, refined	6861789	1
Bombastus	Castor oil, refined	6861795	2
Bombastus	Castor oil, refined	91696	1
Bombastus	Castor oil, refined	Bombastus/20005113	1
Bombastu-Werke AG/Gehe	Castor oil, refined	278660	1
Bombastu-Werke AG/Gehe	Castor oil, refined	281944	1
Bombasus/ Anzag	Castor oil, refined	288126	1
Bpmbastus/AEP	Castor oil, refined	21003348	1
Caeleo/ Noweda	Castor oil, refined	18238102	1
Caelo	Castor oil, refined	1/AKD1	1
Caelo	Castor oil, refined	1000002384	1
Caelo	Castor oil, refined	1000003564	8
Caelo	Castor oil, refined	1000004198	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Castor oil, refined	1000004554	3
Caelo	Castor oil, refined	1000005818	6
Caelo	Castor oil, refined	1000006447	1
Caelo	Castor oil, refined	1000013797	1
Caelo	Castor oil, refined	100004198	1
Caelo	Castor oil, refined	10021402	1
Caelo	Castor oil, refined	1091505	1
Caelo	Castor oil, refined	11173803	1
Caelo	Castor oil, refined	11359502	1
Caelo	Castor oil, refined	11359507	1
Caelo	Castor oil, refined	11359508	1
Caelo	Castor oil, refined	1140318/17113803	1
Caelo	Castor oil, refined	1206039-01	1
Caelo	Castor oil, refined	12071107	1
Caelo	Castor oil, refined	12114603	2
Caelo	Castor oil, refined	12114605	10
Caelo	Castor oil, refined	12114606	2
Caelo	Castor oil, refined	12121307	1
Caelo	Castor oil, refined	12149306	4
Caelo	Castor oil, refined	12270106	10
Caelo	Castor oil, refined	12270108	3
Caelo	Castor oil, refined	12270111	5
Caelo	Castor oil, refined	12318204	1
Caelo	Castor oil, refined	12318207	1
Caelo	Castor oil, refined	123384	2
Caelo	Castor oil, refined	124189	3
Caelo	Castor oil, refined	124637	1
Caelo	Castor oil, refined	1304013-01	2
Caelo	Castor oil, refined	13041803	1
Caelo	Castor oil, refined	13043601	10
Caelo	Castor oil, refined	13065401	1
Caelo	Castor oil, refined	13065405	20
Caelo	Castor oil, refined	1308019-02	1
Caelo	Castor oil, refined	13096304	9
Caelo	Castor oil, refined	131344604	1
Caelo	Castor oil, refined	13134603	3
Caelo	Castor oil, refined	13134603-3417310103	1
Caelo	Castor oil, refined	13134604	20
Caelo	Castor oil, refined	13134608	6
Caelo	Castor oil, refined	13134608-3438311151	1
Caelo	Castor oil, refined	13134609	14
Caelo	Castor oil, refined	13174505	2
Caelo	Castor oil, refined	13174507	1
Caelo	Castor oil, refined	1319609	1
Caelo	Castor oil, refined	13196308	1
Caelo	Castor oil, refined	13196309	10
Caelo	Castor oil, refined	13196313	13
Caelo	Castor oil, refined	13357506	1
Caelo	Castor oil, refined	135277	1
Caelo	Castor oil, refined	13G29-B01	1
Caelo	Castor oil, refined	13I27-B01-287858	1
Caelo	Castor oil, refined	14020104	2
Caelo	Castor oil, refined	14020105	5
Caelo	Castor oil, refined	14020106	2
Caelo	Castor oil, refined	14020108	11
Caelo	Castor oil, refined	14020109	6
Caelo	Castor oil, refined	1403024-02	2
Caelo	Castor oil, refined	14058808	1
Caelo	Castor oil, refined	14058809	1
Caelo	Castor oil, refined	14058810	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Castor oil, refined	1407053-01	1
Caelo	Castor oil, refined	1407053-02man	1
Caelo	Castor oil, refined	14115405	1
Caelo	Castor oil, refined	1412006-01	2
Caelo	Castor oil, refined	1412006-02	2
Caelo	Castor oil, refined	14122006-01	1
Caelo	Castor oil, refined	14144305	2
Caelo	Castor oil, refined	1418103	1
Caelo	Castor oil, refined	14181102	1
Caelo	Castor oil, refined	14181103	9
Caelo	Castor oil, refined	14199501	12
Caelo	Castor oil, refined	14199502	3
Caelo	Castor oil, refined	14199602	1
Caelo	Castor oil, refined	14199603	7
Caelo	Castor oil, refined	14199604	5
Caelo	Castor oil, refined	14199605	8
Caelo	Castor oil, refined	14199609	9
Caelo	Castor oil, refined	1420106	1
Caelo	Castor oil, refined	14304803	5
Caelo	Castor oil, refined	14304806	1
Caelo	Castor oil, refined	14304807	3
Caelo	Castor oil, refined	14330601	4
Caelo	Castor oil, refined	14330604	9
Caelo	Castor oil, refined	14330605	6
Caelo	Castor oil, refined	14330606	10
Caelo	Castor oil, refined	15/355/Ri	1
Caelo	Castor oil, refined	15012016	1
Caelo	Castor oil, refined	150400602	1
Caelo	Castor oil, refined	1504006-02	3
Caelo	Castor oil, refined	15067302	1
Caelo	Castor oil, refined	15067306	1
Caelo	Castor oil, refined	1509003-001	1
Caelo	Castor oil, refined	1509003-01	10
Caelo	Castor oil, refined	1512024-01	1
Caelo	Castor oil, refined	151202402	2
Caelo	Castor oil, refined	1512024-02	1
Caelo	Castor oil, refined	15144302	8
Caelo	Castor oil, refined	15144303	7
Caelo	Castor oil, refined	15144304	9
Caelo	Castor oil, refined	15144305	2
Caelo	Castor oil, refined	15144306	6
Caelo	Castor oil, refined	15144307	3
Caelo	Castor oil, refined	15145101	7
Caelo	Castor oil, refined	15145104	2
Caelo	Castor oil, refined	15145105	1
Caelo	Castor oil, refined	15145106	1
Caelo	Castor oil, refined	15253403	1
Caelo	Castor oil, refined	15253404	5
Caelo	Castor oil, refined	1525w3404	1
Caelo	Castor oil, refined	15383201	2
Caelo	Castor oil, refined	15392001	14
Caelo	Castor oil, refined	15392002	4
Caelo	Castor oil, refined	15392003	7
Caelo	Castor oil, refined	15392005	2
Caelo	Castor oil, refined	15392007	6
Caelo	Castor oil, refined	15399802	2
Caelo	Castor oil, refined	15399806	1
Caelo	Castor oil, refined	15J15-B08-318730	2
Caelo	Castor oil, refined	16/081/R	1
Caelo	Castor oil, refined	16016202	6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Castor oil, refined	16016203	8
Caelo	Castor oil, refined	16016204	1
Caelo	Castor oil, refined	16016206	7
Caelo	Castor oil, refined	16016207	8
Caelo	Castor oil, refined	16016210	2
Caelo	Castor oil, refined	16017101	1
Caelo	Castor oil, refined	16017102	1
Caelo	Castor oil, refined	1604019-01	1
Caelo	Castor oil, refined	1604019-02	3
Caelo	Castor oil, refined	16091703	1
Caelo	Castor oil, refined	16092203	1
Caelo	Castor oil, refined	16102801	21
Caelo	Castor oil, refined	16102802	9
Caelo	Castor oil, refined	16102803	3
Caelo	Castor oil, refined	16102804	15
Caelo	Castor oil, refined	1610802	1
Caelo	Castor oil, refined	1611005-01	1
Caelo	Castor oil, refined	1611005-012x	1
Caelo	Castor oil, refined	1611005-02	3
Caelo	Castor oil, refined	16167203	1
Caelo	Castor oil, refined	16200007	19
Caelo	Castor oil, refined	1620007	1
Caelo	Sorbitan- and glycerol monoo...	16234301	12
Caelo	Castor oil, refined	16236205	1
Caelo	Castor oil, refined	16273101	2
Caelo	Castor oil, refined	16273103	2
Caelo	Castor oil, refined	16273105	1
Caelo	Castor oil, refined	16296301	1
Caelo	Castor oil, refined	16314602	1
Caelo	Castor oil, refined	16314603	2
Caelo	Castor oil, refined	16314604	2
Caelo	Castor oil, refined	1673101	1
Caelo	Castor oil, refined	17001711	7
Caelo	Castor oil, refined	17002280	3
Caelo	Castor oil, refined	17015501	3
Caelo	Castor oil, refined	17027101	1
Caelo	Castor oil, refined	17027201	1
Caelo	Castor oil, refined	17027202	1
Caelo	Castor oil, refined	17027203	1
Caelo	Castor oil, refined	17027204	2
Caelo	Castor oil, refined	17027206	3
Caelo	Castor oil, refined	1705035-01	10
Caelo	Castor oil, refined	1707403	1
Caelo	Castor oil, refined	17107401	5
Caelo	Castor oil, refined	17107402	4
Caelo	Castor oil, refined	17107403	17
Caelo	Castor oil, refined	17107404	1
Caelo	Castor oil, refined	17107407	17
Caelo	Castor oil, refined	17107501	2
Caelo	Castor oil, refined	17107503	2
Caelo	Castor oil, refined	17107504	2
Caelo	Castor oil, refined	17107506	1
Caelo	Castor oil, refined	17113801	2
Caelo	Castor oil, refined	17113802	3
Caelo	Castor oil, refined	17113803	37
Caelo	Sorbitan- and glycerol monoo...	17132201	1
Caelo	Castor oil, refined	1713803	1
Caelo	Castor oil, refined	171707402	1
Caelo	Castor oil, refined	17189906	1
Caelo	Castor oil, refined	17189909	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Castor oil, refined	17251901	31
Caelo	Castor oil, refined	17251902	1
Caelo	Castor oil, refined	17251906	8
Caelo	Castor oil, refined	17273902	2
Caelo	Castor oil, refined	17273903	2
Caelo	Castor oil, refined	17273905	1
Caelo	Castor oil, refined	17273906	1
Caelo	Castor oil, refined	17307702	3
Caelo	Castor oil, refined	17359301	2
Caelo	Castor oil, refined	17359304	1
Caelo	Castor oil, refined	17359306	1
Caelo	Castor oil, refined	17K27-B01	2
Caelo	Castor oil, refined	17K27-B01-352719	1
Caelo	Castor oil, refined	18001340	11
Caelo	Castor oil, refined	1800134006861795	1
Caelo	Castor oil, refined	180033501	1
Caelo	Castor oil, refined	18003729	3
Caelo	Castor oil, refined	18003730	4
Caelo	Castor oil, refined	1801007-01	9
Caelo	Castor oil, refined	18021505	1
Caelo	Castor oil, refined	18033501	50
Caelo	Castor oil, refined	1803501	1
Caelo	Castor oil, refined	1807003-01	1
Caelo	Castor oil, refined	18083604	3
Caelo	Castor oil, refined	18083605	3
Caelo	Castor oil, refined	18114502	19
Caelo	Castor oil, refined	18114503	1
Caelo	Castor oil, refined	18121704	1
Caelo	Castor oil, refined	18154902	2
Caelo	Castor oil, refined	18154904	1
Caelo	Castor oil, refined	18154905	1
Caelo	Castor oil, refined	18154907	1
Caelo	Castor oil, refined	18155801	1
Caelo	Castor oil, refined	18155804	1
Caelo	Castor oil, refined	18224101	1
Caelo	Castor oil, refined	18224103	1
Caelo	Castor oil, refined	18224104	3
Caelo	Castor oil, refined	18224106	1
Caelo	Castor oil, refined	18224107	1
Caelo	Castor oil, refined	18233501	1
Caelo	Castor oil, refined	18238102	27
Caelo	Castor oil, refined	18295701	2
Caelo	Castor oil, refined	18295702	17
Caelo	Castor oil, refined	18295703	5
Caelo	Castor oil, refined	19012705	9
Caelo	Castor oil, refined	19012706	1
Caelo	Castor oil, refined	19012707	2
Caelo	Castor oil, refined	19012709	1
Caelo	Castor oil, refined	19020702	1
Caelo	Castor oil, refined	19080701	10
Caelo	Castor oil, refined	19080702	1
Caelo	Castor oil, refined	19080706	6
Caelo	Castor oil, refined	19080707	6
Caelo	Castor oil, refined	19091802	1
Caelo	Castor oil, refined	1912705	1
Caelo	Castor oil, refined	19132601	1
Caelo	Castor oil, refined	19132603	37
Caelo	Castor oil, refined	1913A-02009	1
Caelo	Castor oil, refined	19197001	1
Caelo	Castor oil, refined	19222501	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Castor oil, refined	19222504	1
Caelo	Castor oil, refined	19251101	1
Caelo	Castor oil, refined	19251102	11
Caelo	Castor oil, refined	19251103	3
Caelo	Castor oil, refined	192831001	1
Caelo	Castor oil, refined	192831006	2
Caelo	Castor oil, refined	1980706	1
Caelo	Castor oil, refined	200000498002	1
Caelo	Castor oil, refined	200001240002	1
Caelo	Castor oil, refined	200002353001	1
Caelo	Castor oil, refined	200002920089	1
Caelo	Castor oil, refined	2000049002	1
Caelo	Castor oil, refined	20000498001	1
Caelo	Castor oil, refined	20000498002	37
Caelo	Castor oil, refined	20000498004	3
Caelo	Castor oil, refined	20000498008	1
Caelo	Castor oil, refined	20002353001	38
Caelo	Castor oil, refined	20004358003	15
Caelo	Castor oil, refined	20004358006	1
Caelo	Castor oil, refined	2000498002	3
Caelo	Castor oil, refined	2002353001	1
Caelo	Castor oil, refined	20161102-3	1
Caelo	Castor oil, refined	21000493002	1
Caelo	Castor oil, refined	21000493003	7
Caelo	Castor oil, refined	21000493006	13
Caelo	Castor oil, refined	21001404002	1
Caelo	Castor oil, refined	21001404003	9
Caelo	Castor oil, refined	21002000002	2
Caelo	Castor oil, refined	21002000003	2
Caelo	Castor oil, refined	210020003	1
Caelo	Castor oil, refined	21002982008	2
Caelo	Castor oil, refined	22051303	1
Caelo	Castor oil, refined	22071302	1
Caelo	Castor oil, refined	24101402	1
Caelo	Castor oil, refined	26041403	1
Caelo	Castor oil, refined	269565	1
Caelo	Castor oil, refined	272591	1
Caelo	Castor oil, refined	275938	3
Caelo	Castor oil, refined	278661	3
Caelo	Castor oil, refined	28051512	1
Caelo	Castor oil, refined	284505	1
Caelo	Castor oil, refined	287167	2
Caelo	Castor oil, refined	288126	1
Caelo	Castor oil, refined	290212	6
Caelo	Castor oil, refined	292409	2
Caelo	Castor oil, refined	294667	1
Caelo	Castor oil, refined	294668	3
Caelo	Castor oil, refined	295412	2
Caelo	Castor oil, refined	296751	5
Caelo	Castor oil, refined	297430	1
Caelo	Castor oil, refined	298698	1
Caelo	Castor oil, refined	298699	4
Caelo	Castor oil, refined	2x20003205002	1
Caelo	Castor oil, refined	30031302	1
Caelo	Castor oil, refined	30031504	1
Caelo	Castor oil, refined	30041808	1
Caelo	Castor oil, refined	300629	3
Caelo	Castor oil, refined	301587	2
Caelo	Castor oil, refined	301591	6
Caelo	Castor oil, refined	303857	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Castor oil, refined	303858	1
Caelo	Castor oil, refined	305230	2
Caelo	Castor oil, refined	3071713	1
Caelo	Castor oil, refined	307429	1
Caelo	Castor oil, refined	307457	5
Caelo	Castor oil, refined	308824	4
Caelo	Castor oil, refined	308825	3
Caelo	Castor oil, refined	311683	1
Caelo	Castor oil, refined	311684	3
Caelo	Castor oil, refined	3791723	1
Caelo	Castor oil, refined	420301113	1
Caelo	Castor oil, refined	4330605	1
Caelo	Castor oil, refined	4614M-02009	1
Caelo	Castor oil, refined	5121809	1
Caelo	Castor oil, refined	5334001	1
Caelo	Castor oil, refined	5450801	4
Caelo	Castor oil, refined	5899201	1
Caelo	Castor oil, refined	60082103	1
Caelo	Castor oil, refined	6051411	1
Caelo	Castor oil, refined	6861795	1
Caelo	Castor oil, refined	8003726001	6
Caelo	Castor oil, refined	8003726002	2
Caelo	Castor oil, refined	8041711	1
Caelo	Castor oil, refined	9061817	1
Caelo	Castor oil, refined	Fertigarzneimittel	1
Caelo	Castor oil, refined	OPW001382	1
Caelo	Castor oil, refined	P-09121924/19080707	1
Caelo	Castor oil, refined	P161/14	1
Caeolo/Phoenix	Castor oil, refined	8003726002	1
Caesa / Alliance Health...	Castor oil, refined	18238102	1
Caesar & Loretz GmbH / ...	Castor oil, refined	21000493006	1
Caesar & Loretz GmbH/Je...	Castor oil, refined	20004358003	1
Caesar & Loretz GmbH/Kehr	Castor oil, refined	19251102	2
Caesar & Loretz GmbH/No...	Castor oil, refined	19080701	2
Caesar & Loretz GmbH/No...	Castor oil, refined	21000493006	1
Caesar & Loretz GmbH/Sa...	Castor oil, refined	20000498002	4
Caesar & Loretz GmbH/Sa...	Castor oil, refined	20002353001	2
Caesar & Loretz GmbH/Sa...	Castor oil, refined	21000493003	1
Caesar & Loretz GmbH	Castor oil, refined	16102802	1
Caesar & Loretz GmbH	Castor oil, refined	16236202	1
Caesar & Loretz GmbH	Castor oil, refined	16273105	1
Caesar & Loretz GmbH	Castor oil, refined	17113803	1
Caesar & Loretz GmbH	Castor oil, refined	18114503	1
Caesar & Loretz GmbH	Castor oil, refined	19080701	2
Caesar & Loretz GmbH	Castor oil, refined	19132603	15
Caesar & Loretz GmbH	Castor oil, refined	19222501	1
Caesar & Loretz GmbH	Castor oil, refined	19251102	3
Caesar & Loretz GmbH	Castor oil, refined	192831010	2
Caesar & Loretz GmbH	Castor oil, refined	20000292005	1
Caesar & Loretz GmbH	Castor oil, refined	20000498002	7
Caesar & Loretz GmbH	Castor oil, refined	20002353001	6
CAESAR & LORETZ GMBH	Castor oil, refined	20002353001	3
Caesar & Loretz GmbH	Castor oil, refined	20002399	2
Caesar & Loretz GmbH	Castor oil, refined	20003370005	1
Caesar & Loretz GmbH	Castor oil, refined	20004358003	1
CAESAR & LORETZ GMBH	Castor oil, refined	20004358003	1
CAESAR & LORETZ GMBH	Castor oil, refined	21000493003	1
Caesar & Loretz GmbH	Castor oil, refined	21000493006	1
Caesar & Loretz GmbH	Castor oil, refined	21001404003	1
CAESAR & LORETZ GMBH	Castor oil, refined	21001404003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Castor oil, refined	21002000003	1
Caesar Loretz	Castor oil, refined	20004358003	1
Caesar&Loretz/Caesar&Lo...	Castor oil, refined	15144304	1
Caesar-Loretz/Sanacorp	Castor oil, refined	17251901	1
Calo/Sanacorp	Castor oil, refined	16102802	2
castor Products company	Castor oil, refined	136225	1
Castor Pruducts Company...	Castor oil, refined	1407053-02	1
Castor Pruducts Company...	Castor oil, refined	1512024-01	1
Castor Pruducts Company...	Castor oil, refined	1512024-02	1
Castor/Phoenix	Castor oil, refined	142862	1
Castor/Phönix	Castor oil, refined	1509003-02	1
Cealo/AHD	Castor oil, refined	16102804	1
Cealo/Sanacorp	Castor oil, refined	20000498002	1
Cealo	Castor oil, refined	1000004198	1
Cealo	Castor oil, refined	13096304	1
Cealo	Castor oil, refined	14199609	1
Cealo	Castor oil, refined	16102801	1
Cealo	Castor oil, refined	20002353001	1
Defektur Abfüllung	Castor oil, refined	5945	1
Defektur Abfüllung	Castor oil, refined	6001	2
Defektur Abfüllung	Castor oil, refined	6081	1
Defektur Abfüllung	Castor oil, refined	6189	1
Defektur Abfüllung	Castor oil, refined	6260	1
Defektur Abfüllung	Castor oil, refined	6333	1
Defektur Abfüllung	Castor oil, refined	6414	1
Defektur	Castor oil, refined	5052	3
Defektur	Castor oil, refined	5196	1
Defektur	Castor oil, refined	5253	2
Defektur	Castor oil, refined	5334	3
Defektur	Castor oil, refined	5408	2
Defektur	Castor oil, refined	5775	1
Defektur	Castor oil, refined	6442	1
Delta	Castor oil, refined	17251906	1
Ebert-Jacobi	Castor oil, refined	6861795	1
entspricht	Castor oil, refined	18295702	1
Eur	Castor oil, refined	1407053-01	1
EuRho / 11	Castor oil, refined	1504006-02	2
Eurho / Sanacorp	Castor oil, refined	121008-02	1
EuRho AHC	Castor oil, refined	1611005-01	1
EuRho/GEHE	Castor oil, refined	136225	1
EuRho/GEHE	Castor oil, refined	1705035	1
EuRho/GEHE	Castor oil, refined	1705035-01	2
EuRho/Geilenkirchen	Castor oil, refined	1304013-02	1
EuRho	Castor oil, refined	1206039-02	1
EuRho	Castor oil, refined	1212008-01	3
EuRho	Castor oil, refined	1212008-02	1
EuRho	Castor oil, refined	1304013-02	1
EuRho	Castor oil, refined	141-2006-02	1
EuRho	Castor oil, refined	1509003-01	1
EuRho	Castor oil, refined	1512024-01	2
EuRho	Castor oil, refined	161100501	1
Euro OCT	Castor oil, refined	14112006-02	1
Euro OTC	Castor oil, refined	10000005818	1
Euro OTC	Castor oil, refined	10022015D	1
Euro OTC	Castor oil, refined	1014A03553	1
Euro OTC	Castor oil, refined	1112013C	1
Euro OTC	Castor oil, refined	1202041-01	1
Euro OTC	Castor oil, refined	1206039-01	2
Euro OTC	Castor oil, refined	121008-01	1
Euro OTC	Castor oil, refined	1212008-01	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Castor oil, refined	1212008-02	9
Euro OTC	Castor oil, refined	1220616	1
Euro OTC	Castor oil, refined	126279	1
Euro OTC	Castor oil, refined	128224	1
Euro OTC	Castor oil, refined	129(1705035-01)	1
Euro OTC	Castor oil, refined	130(1801007-01)	1
Euro OTC	Castor oil, refined	1304013-01	7
Euro OTC	Castor oil, refined	1304013-02	11
Euro OTC	Castor oil, refined	130401313-02	1
Euro OTC	Castor oil, refined	13071301	2
Euro OTC	Castor oil, refined	1308019-01	11
Euro OTC	Castor oil, refined	130801902	1
Euro OTC	Castor oil, refined	1308019-02	3
Euro OTC	Castor oil, refined	131(1801007-01)	1
Euro OTC	Castor oil, refined	135277	1
Euro OTC	Castor oil, refined	136225	1
Euro OTC	Castor oil, refined	140302401	1
Euro OTC	Castor oil, refined	1403024-01	11
Euro OTC	Castor oil, refined	140302402	2
Euro OTC	Castor oil, refined	1403024-02	9
Euro OTC	Castor oil, refined	140705301	2
Euro OTC	Castor oil, refined	1407053-01	4
Euro OTC	Castor oil, refined	1407053-02	9
Euro OTC	Castor oil, refined	141200601	1
Euro OTC	Castor oil, refined	1412006-01	6
Euro OTC	Castor oil, refined	141200602	2
Euro OTC	Castor oil, refined	1412006-02	13
Euro OTC	Castor oil, refined	142862	3
Euro OTC	Castor oil, refined	145943	2
Euro OTC	Castor oil, refined	1504006-01	11
Euro OTC	Castor oil, refined	150400602	1
Euro OTC	Castor oil, refined	1504006-02	9
Euro OTC	Castor oil, refined	1504006-06	1
Euro OTC	Castor oil, refined	15072014B	1
Euro OTC	Castor oil, refined	150900301	1
Euro OTC	Castor oil, refined	1509003-01	27
Euro OTC	Castor oil, refined	150900302	1
Euro OTC	Castor oil, refined	1509003-02	23
Euro OTC	Castor oil, refined	1512004-02	1
Euro OTC	Castor oil, refined	1512024	1
Euro OTC	Castor oil, refined	151202401	1
Euro OTC	Castor oil, refined	1512024-01	18
Euro OTC	Castor oil, refined	1512024-014	1
Euro OTC	Castor oil, refined	1512024-02	23
Euro OTC	Castor oil, refined	151204-02	1
Euro OTC	Castor oil, refined	1513A03553	2
Euro OTC	Castor oil, refined	154006-02	1
Euro OTC	Castor oil, refined	15943	1
Euro OTC	Castor oil, refined	16040019-02	1
Euro OTC	Castor oil, refined	1604019-01	34
Euro OTC	Castor oil, refined	160401902	1
Euro OTC	Castor oil, refined	1604019-02	10
Euro OTC	Castor oil, refined	1611005	1
Euro OTC	Castor oil, refined	161100501	2
Euro OTC	Castor oil, refined	1611005-01	26
Euro OTC	Castor oil, refined	1611005-02	9
Euro OTC	Castor oil, refined	170503-01	1
Euro OTC	Castor oil, refined	170503501	4
Euro OTC	Castor oil, refined	1705035-01	57
Euro OTC	Castor oil, refined	18001340	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Castor oil, refined	1801007	1
Euro OTC	Castor oil, refined	180100701	9
Euro OTC	Castor oil, refined	1801007-01	51
Euro OTC	Castor oil, refined	180107-01	1
Euro OTC	Castor oil, refined	18033501	1
Euro OTC	Castor oil, refined	180700301	4
Euro OTC	Castor oil, refined	1807003-01	44
Euro OTC	Castor oil, refined	1902019-01	18
Euro OTC	Castor oil, refined	1902019-02	7
Euro OTC	Castor oil, refined	1902019-03	20
Euro OTC	Castor oil, refined	1902019-04	5
Euro OTC	Castor oil, refined	2022015C	1
Euro OTC	Castor oil, refined	290714b	1
Euro OTC	Castor oil, refined	301591	2
Euro OTC	Castor oil, refined	303858	1
Euro OTC	Castor oil, refined	31032015A	1
Euro OTC	Castor oil, refined	3313U-03553	1
Euro OTC	Castor oil, refined	3413U03553	1
Euro OTC	Castor oil, refined	3513I-03553	1
Euro OTC	Castor oil, refined	5581	1
Euro OTC	Castor oil, refined	60082103	1
Euro OTC	Castor oil, refined	705035-01	1
Euro OTC	Castor oil, refined	8003726001	3
Euro OTC	Castor oil, refined	8004605002	2
Euro OTC	Castor oil, refined	ChB120115	1
Euro/Noweda	Castor oil, refined	1412006-02	1
Euro/Noweda	Castor oil, refined	1604019-01	2
Euro/Noweda	Castor oil, refined	1604019-02	1
Fagron	Castor oil, refined		1
Fagron	Castor oil, refined	126F07-B06-324379	1
Fagron	Castor oil, refined	127170	1
Fagron	Castor oil, refined	12D04-N09	2
Fagron	Castor oil, refined	12H29-N04	2
Fagron	Castor oil, refined	13/27-B01-287857	1
Fagron	Castor oil, refined	13/27-B01-287858	1
Fagron	Castor oil, refined	13065405	1
Fagron	Castor oil, refined	13134609	1
Fagron	Castor oil, refined	133085	1
Fagron	Castor oil, refined	13C08-N08	2
Fagron	Castor oil, refined	13D29-N01	1
Fagron	Castor oil, refined	13G29B01	1
Fagron	Castor oil, refined	13G29-B01-285422	1
Fagron	Castor oil, refined	13I27-B01-287857	1
Fagron	Castor oil, refined	13I27-B01-287858	1
Fagron	Castor oil, refined	14020108	1
Fagron	Castor oil, refined	1407053-02	1
Fagron	Castor oil, refined	14199602	4
Fagron	Castor oil, refined	14330601	1
Fagron	Castor oil, refined	14A28-B07-304816	1
Fagron	Castor oil, refined	14C17-B01	3
Fagron	Castor oil, refined	14c17-b01-293832	1
Fagron	Castor oil, refined	14C17-B01-293833	2
Fagron	Castor oil, refined	14C17-B01-293834	1
Fagron	Castor oil, refined	150383	1
Fagron	Castor oil, refined	1504006-01	1
Fagron	Castor oil, refined	1528-B07-3048	1
Fagron	Castor oil, refined	15A28B07	1
Fagron	Castor oil, refined	15A28-B07-304816	2
Fagron	Castor oil, refined	15A28-B07-304817	3
Fagron	Castor oil, refined	15A28-B07-304818	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Castor oil, refined	15D02-B02-311714	1
Fagron	Castor oil, refined	15D02-B02-314240	1
Fagron	Castor oil, refined	15J15-B08	4
Fagron	Castor oil, refined	15J15-B08-316099	1
Fagron	Castor oil, refined	15J15-B08-318730	2
Fagron	Castor oil, refined	16/12-b01-329507	1
Fagron	Castor oil, refined	16C29-B01	1
Fagron	Castor oil, refined	16C29-B01-320886	1
Fagron	Castor oil, refined	16C29-B01-322133	2
Fagron	Castor oil, refined	16F07-B06	1
Fagron	Castor oil, refined	16F07-B06-324379	4
Fagron	Castor oil, refined	16H05-B03	3
Fagron	Castor oil, refined	16h05-b03-326864	2
Fagron	Castor oil, refined	16H05-B03-326864	11
Fagron	Castor oil, refined	16J12-B01	1
Fagron	Castor oil, refined	16J12-B01-328159	3
Fagron	Castor oil, refined	16J12-B01-328160	1
Fagron	Castor oil, refined	16J12-B01-329507	2
Fagron	Castor oil, refined	16J12-B328159	1
Fagron	Castor oil, refined	1705035-01	1
Fagron	Castor oil, refined	17A19-B06-335016	1
Fagron	Castor oil, refined	17H22-B01-341047	2
Fagron	Castor oil, refined	17H22-B01-341158	2
Fagron	Castor oil, refined	17K27-B01-352719	1
Fagron	Castor oil, refined	18001340	2
Fagron	Castor oil, refined	18003730	3
Fagron	Castor oil, refined	1801007-01	1
Fagron	Castor oil, refined	18033501	1
Fagron	Castor oil, refined	19H13-B04	1
Fagron	Castor oil, refined	19H13-B04-191756	2
Fagron	Castor oil, refined	19H13-B04-191756211713	1
Fagron	Castor oil, refined	19h13-b04-191757	2
Fagron	Castor oil, refined	19H13-B04-191757	3
Fagron	Castor oil, refined	19H13-BO4-191757	1
Fagron	Castor oil, refined	20D09-T09_080454	1
Fagron	Castor oil, refined	20D09-T09-074227	1
Fagron	Castor oil, refined	20D09-T09-080454	3
Fagron	Castor oil, refined	20J08-T05-084215	5
Fagron	Castor oil, refined	294668	1
Fagron	Castor oil, refined	2D09-T09-074228	1
Fagron	Castor oil, refined	301591	1
Fagron	Castor oil, refined	303858	1
Fagron	Castor oil, refined	5450801	1
Fagron	Castor oil, refined	810201818C	1
Fagron	Castor oil, refined	OPW001871	2
Fagron	Castor oil, refined	T05-0815300	1
Fagron	Castor oil, refined	T05-0842105	1
Fagron	Castor oil, refined	T09-0742207	1
Fargon /12.07.2013 / No...	Castor oil, refined	13D29-N01	1
Fargron	Castor oil, refined	16j12-b01-329507	1
Fiebig/Lamotte	Castor oil, refined	1000010810	3
Fiebig	Castor oil, refined	1000004554	3
Fiebig	Castor oil, refined	1000009899	4
Fiebig	Castor oil, refined	294668	1
Fiebig	Castor oil, refined	8003726001	5
Fiebig	Castor oil, refined	8003726002	5
Finteler Apotheke	Castor oil, refined	1611005-01	1
Gatt-Koller	Castor oil, refined	1803582	2
Gatt-Koller	Castor oil, refined	1900038	2
Gehe 05.03.2014	Castor oil, refined	278660	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
GEHE 17.07.2014	Castor oil, refined	285757	1
Gehe Kassel 06.06.2015	Castor oil, refined	290212	1
GEHE Kassel 13.02.2019	Castor oil, refined	18003729	1
Gehe Kassel	Castor oil, refined	288638	2
Gehe/Lamotte	Castor oil, refined	1000004198	1
Gehe/Lamotte	Castor oil, refined	1000004554	1
Gehe/Lamotte	Castor oil, refined	1000005199	1
Gehe	Castor oil, refined	1000001128	1
Gehe	Castor oil, refined	1000001914	2
Gehe	Castor oil, refined	1000002384	1
GEHE	Castor oil, refined	11359507	1
Gehe	Castor oil, refined	124189	1
Gehe	Castor oil, refined	130155	1
Gehe	Castor oil, refined	1304013-01	2
Gehe	Castor oil, refined	136225	1
Gehe	Castor oil, refined	14058808	1
Gehe	Castor oil, refined	1412006/02	1
Gehe	Castor oil, refined	1412006-02	2
Gehe	Castor oil, refined	1512024-01	1
Gehe	Castor oil, refined	1604019-01	2
Gehe	Castor oil, refined	1611005-01	2
Gehe	Castor oil, refined	17001711	1
GEHE	Castor oil, refined	17107506	1
Gehe	Castor oil, refined	18001340	1
Gehe	Castor oil, refined	18003730	1
GEHE	Castor oil, refined	18003730	2
Gehe	Castor oil, refined	18006815	2
Gehe	Castor oil, refined	1807003-01	2
Gehe	Castor oil, refined	18295702	1
GEHE	Castor oil, refined	19002829	1
Gehe	Castor oil, refined	19002830	1
Gehe	Castor oil, refined	19006129	2
Gehe	Castor oil, refined	19251102	1
Gehe	Castor oil, refined	20002401	4
Gehe	Castor oil, refined	20005113	2
Gehe	Castor oil, refined	21000493006	2
Gehe	Castor oil, refined	275937	1
Gehe	Castor oil, refined	283620	3
Gehe	Castor oil, refined	294667	1
Gehe	Castor oil, refined	305229	1
Geilenkirchen	Castor oil, refined	1509003-01	2
Geo-Chem/sanacorp	Castor oil, refined	1206039-01	1
Geo-Chem/sanacorp	Castor oil, refined	1212008-01	1
GMP-konform	Castor oil, refined	8003726001	1
H.Lamotte/Noweda	Castor oil, refined	1000001914	1
H.Lamotte/Noweda	Castor oil, refined	123812	1
H.Lamotte/Noweda	Castor oil, refined	125162	2
H.Lamotte	Castor oil, refined	1000004554	2
Hänseler	Castor oil, refined		2
harn	Castor oil, refined	17002280	1
Hedinger / Noweda	Castor oil, refined	1407053-02	3
Hedinger/Phönix	Castor oil, refined	8007232001	1
Hedinger/Sanacorp	Castor oil, refined	290213	1
Henning/ Phoenix	Castor oil, refined	5899201	2
Henry la Motte	Castor oil, refined	1000005818	1
Henry la Motte	Castor oil, refined	1000010810	1
Henry la Motte	Castor oil, refined	125162	1
Henry la Motte	Castor oil, refined	5899201	1
Henry la Motte	Castor oil, refined	8005323001	1
Henry la Motte	Castor oil, refined	8006040002	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lam.	Castor oil, refined	5334001	2
Henry Lamortte	Castor oil, refined	1000007717L100	1
Henry Lamotte / AHD	Castor oil, refined	8005323001	1
Henry Lamotte / Anzag	Castor oil, refined	1000009899	1
Henry Lamotte / Kehr	Castor oil, refined	1000000714	1
Henry Lamotte / Noweda	Castor oil, refined	123384	1
Henry Lamotte / Noweda	Castor oil, refined	5450801	2
Henry Lamotte OHLS GMBH...	Castor oil, refined	8005323001	1
Henry Lamotte Oils GmbH...	Castor oil, refined	1000005199	1
Henry Lamotte oils GmbH...	Castor oil, refined	10000000714	1
Henry Lamotte oils GmbH...	Castor oil, refined	1000001128	1
henry lamotte oils gmbh...	Castor oil, refined	1000004198	1
Henry Lamotte Oils GmbH...	Castor oil, refined	123384	1
Henry Lamotte Oils GmbH...	Castor oil, refined	124189	1
Henry Lamotte Oils GmbH...	Castor oil, refined	123812	2
henry lamotte oils gmbh...	Castor oil, refined	1000002384	1
Henry Lamotte Oils Gmbh	Castor oil, refined	1000000714	1
Henry Lamotte Oils GmbH	Castor oil, refined	1000000714	1
Henry Lamotte Oils GmbH	Castor oil, refined	1000001914	1
Henry Lamotte Oils GmbH	Castor oil, refined	1000002384	1
Henry Lamotte Oils GmbH	Castor oil, refined	1000002766	1
Henry Lamotte oils GmbH	Castor oil, refined	1000004554	1
Henry Lamotte Oils GmbH	Castor oil, refined	1000005199	2
Henry Lamotte Oils GmbH	Castor oil, refined	1000009899	2
Henry Lamotte Oils GmbH	Castor oil, refined	1000010810	1
Henry Lamotte Oils GmbH	Castor oil, refined	123812	1
Henry Lamotte Oils GmbH	Castor oil, refined	124637	1
Henry Lamotte Oils GmbH	Castor oil, refined	5450801	1
Henry Lamotte Oils GmbH	Castor oil, refined	8003726001	1
Henry Lamotte Oils, Gehe	Castor oil, refined	5450801	1
Henry Lamotte Oils/ San...	Castor oil, refined	16102804	1
Henry Lamotte Oils/Ebert	Castor oil, refined	1000004554	1
Henry Lamotte Oils/Gehe	Castor oil, refined	123384	1
Henry Lamotte Oils/GEHE	Castor oil, refined	124637	1
Henry Lamotte Oils/Gehe	Castor oil, refined	5334001	1
Henry Lamotte Oils/GEHE	Castor oil, refined	5899201	1
Henry Lamotte Oils/Noweda	Castor oil, refined	1000005818	1
Henry Lamotte Oils/Noweda	Castor oil, refined	123812	1
Henry Lamotte Oils/Noweda	Castor oil, refined	8003726001	8
Henry Lamotte Oils/Nowe...	Castor oil, refined	1000005199	1
Henry Lamotte Oils	Castor oil, refined	10000001128	1
Henry Lamotte Oils	Castor oil, refined	1000001128	2
Henry Lamotte Oils	Castor oil, refined	1000001914	1
Henry Lamotte Oils	Castor oil, refined	1000002384	4
Henry Lamotte Oils	Castor oil, refined	1000004198	4
Henry Lamotte Oils	Castor oil, refined	1000004198L101	1
Henry Lamotte Oils	Castor oil, refined	1000009899	2
Henry Lamotte oils	Castor oil, refined	1000010810	1
Henry Lamotte Oils	Castor oil, refined	100004198	1
Henry Lamotte Oils	Castor oil, refined	123812	1
Henry Lamotte Oils	Castor oil, refined	5334001	1
Henry Lamotte Oils	Castor oil, refined	5450801	2
Henry Lamotte Oils	Castor oil, refined	5899201	1
Henry Lamotte Oils	Castor oil, refined	8003726001	1
Henry Lamotte/ Alliance...	Castor oil, refined	1000004554	1
Henry Lamotte/ Alliance...	Castor oil, refined	8003726002	1
Henry Lamotte/ Alliance	Castor oil, refined	1000005818	2
Henry Lamotte/ Alliance	Castor oil, refined	1000009899	1
Henry Lamotte/ Anzag	Castor oil, refined	1000004554	1
Henry Lamotte/ Phönix	Castor oil, refined	1000003564	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/ Phönix	Castor oil, refined	1000004198	3
Henry Lamotte/AHD	Castor oil, refined	1000001128	2
Henry Lamotte/Ebert	Castor oil, refined	5450801	3
Henry Lamotte/Fiebig	Castor oil, refined	1000005818	4
Henry Lamotte/Gehe	Castor oil, refined	1000001128	1
Henry Lamotte/Gehe	Castor oil, refined	5450801	2
Henry Lamotte/Jenne 22....	Castor oil, refined	8006040002	2
Henry Lamotte/Noewda	Castor oil, refined	100000238	1
Henry Lamotte/Noewda	Castor oil, refined	1000004198	1
Henry Lamotte/Noweda	Castor oil, refined	1000001914	1
Henry Lamotte/Noweda	Castor oil, refined	1000002384	1
Henry Lamotte/Noweda	Castor oil, refined	1000004554	3
Henry Lamotte/Noweda	Castor oil, refined	123812	1
Henry Lamotte/Noweda	Castor oil, refined	124637	1
Henry Lamotte/Noweda	Castor oil, refined	8005323001	1
Henry Lamotte/Noweda	Castor oil, refined	8006040002	1
Henry Lamotte/Phoenix	Castor oil, refined	1000000714	1
Henry Lamotte/Phoenix	Castor oil, refined	1000001914	3
Henry Lamotte/Phoenix	Castor oil, refined	125473	2
Henry Lamotte/Sanacorp	Castor oil, refined	1000001914	3
Henry Lamotte/Sanacorp	Castor oil, refined	123384	3
Henry Lamotte/Sanacorp	Castor oil, refined	124189	1
Henry Lamotte/Sanacorp	Castor oil, refined	5899201	2
Henry Lamotte	Castor oil, refined	10000005818	1
Henry Lamotte	Castor oil, refined	1000000714	1
Henry Lamotte	Castor oil, refined	1000001128	5
Henry Lamotte	Castor oil, refined	1000001914	11
Henry Lamotte	Castor oil, refined	1000002384	7
Henry Lamotte	Castor oil, refined	1000002766	5
Henry Lamotte	Castor oil, refined	1000003564	11
Henry Lamotte	Castor oil, refined	1000004198	4
Henry Lamotte	Castor oil, refined	1000004553L100	1
Henry Lamotte	Castor oil, refined	1000005818	2
Henry Lamotte	Castor oil, refined	1000005818L102	1
Henry Lamotte	Castor oil, refined	1000007724	2
henry Lamotte	Castor oil, refined	1000009899	1
Henry Lamotte	Castor oil, refined	1000009899	1
Henry Lamotte	Castor oil, refined	1000011593	1
Henry Lamotte	Castor oil, refined	1000014634	1
Henry Lamotte	Castor oil, refined	1000016454	1
Henry Lamotte	Castor oil, refined	123812	1
Henry Lamotte	Castor oil, refined	125162	1
Henry Lamotte	Castor oil, refined	125473	3
Henry Lamotte	Castor oil, refined	2X1000004554	1
Henry Lamotte	Castor oil, refined	5334001	1
Henry Lamotte	Castor oil, refined	5450801	1
Henry Lamotte	Castor oil, refined	8002726001	1
Henry Lamotte	Castor oil, refined	8003726002	2
Henry Lamotte	Castor oil, refined	8005323001	2
Henry Lamotte	Castor oil, refined	8006040001	1
Henry Lamotte	Castor oil, refined	8006040002	1
Henry Lamotte	Castor oil, refined	8007232001	2
Henry Lamotten Oils GmbH	Castor oil, refined	8003726002	4
Henry Lamotte-Phönix	Castor oil, refined	1000005199	1
Henry Lamotte-Phönix	Castor oil, refined	1000005818	1
Henry/Alliance	Castor oil, refined	1000005199	1
Henry/Phoenix	Castor oil, refined	1000004554	1
Henry/Sanacorp	Castor oil, refined	1000010810	3
Henry/Sanacorp	Castor oil, refined	8006040002	1
henry	Castor oil, refined	1000009899	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
HenryLamotte/Anzag	Castor oil, refined	2114I-02009	1
HenryLamotte/Phoenix	Castor oil, refined	5280301	1
HenryLamotte	Castor oil, refined	1914	1
HenryLamotte	Castor oil, refined	5899201	1
Hernry Lamotte/Phönix	Castor oil, refined	1000010810	2
Hernry Lamotte/Phönix	Castor oil, refined	8005323001	3
Hubertus Apotheke	Castor oil, refined	16J12-B01-328159	2
Ichthyol-Gesellschaft, ...	Castor oil, refined	306532	1
Jenne,Lamotte	Castor oil, refined	123384	1
Jenne/HenryLamotte	Castor oil, refined	1000016454	1
Jenne	Castor oil, refined	20002353001	1
Kehr/Henry Lamotte	Castor oil, refined	1000005818	1
Kehr	Castor oil, refined	18001339	1
Kehr	Castor oil, refined	308824	5
Kehr	Castor oil, refined	311683	3
Kögl	Castor oil, refined	112304172017	3
Kögl	Castor oil, refined	1701849	3
Kögl	Castor oil, refined	1801521	2
Kögl	Castor oil, refined	1802385	1
KÖGL	Castor oil, refined	1900992	1
Kögl	Castor oil, refined	20172348	2
Kögl	Castor oil, refined	254508163316	1
Kögl	Castor oil, refined	36102170817	1
Kögl	Castor oil, refined	36102171217	1
Kögl	Castor oil, refined	404411164916	2
Krieger/Lamotte	Castor oil, refined	1000001128	1
L10	Castor oil, refined	17015501	1
Laborchemie Apolida Gmb...	Castor oil, refined	17107407	1
Lamotte / Sanacorp	Castor oil, refined	10000051995648	1
Lamotte Jenne	Castor oil, refined	1000004554	2
Lamotte Jenne	Castor oil, refined	1000005818	1
Lamotte / AHC	Castor oil, refined	1000009899	1
Lamotte / AHC	Castor oil, refined	8003726002	3
Lamotte / Anzag	Castor oil, refined	8003726002	2
Lamotte / Gehe	Castor oil, refined	1000010810	3
Lamotte / Gehe	Castor oil, refined	123384	2
Lamotte / Gehe	Castor oil, refined	5334001	1
Lamotte / Gehe	Castor oil, refined	8003726001	2
Lamotte / Gehe	Castor oil, refined	8005323001	1
Lamotte / Noweda	Castor oil, refined	125162	1
LaMotte / Phoenix	Castor oil, refined	1000001128	3
LaMotte / Phoenix	Castor oil, refined	1000002384	1
LaMotte / Phoenix	Castor oil, refined	1000002766	2
Lamotte / Phoenix	Castor oil, refined	8006040002	1
Lamotte / Sanacorp	Castor oil, refined	8005322001	1
lamotte Phoenix	Castor oil, refined	288721	1
lamotte phönix	Castor oil, refined	125162	1
Lamotte Phönix	Castor oil, refined	5450801	2
Lamotte Spangro Juni 2014	Castor oil, refined	123384	1
Lamotte/ Alliance Healt...	Castor oil, refined	8003726002	2
Lamotte/ Noweda	Castor oil, refined	20002401	1
lamotte/ Phoenix	Castor oil, refined	1000003564	1
lamotte/ Phoenix	Castor oil, refined	1000004198	1
lamotte/ Phoenix	Castor oil, refined	1000004554	1
Lamotte/ Sanacorp	Castor oil, refined	1000001128	1
Lamotte/ Sanacorp	Castor oil, refined	1000002384	2
Lamotte/ Sanacorp	Castor oil, refined	1000004554	1
Lamotte/ Sanacorp	Castor oil, refined	1000005199	1
Lamotte/ Sanacorp	Castor oil, refined	1000010810	1
Lamotte/4	Castor oil, refined	10000010810	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/4	Castor oil, refined	125473	1
Lamotte/Allia	Castor oil, refined	10000010810	1
Lamotte/Allia	Castor oil, refined	1000009899	3
Lamotte/Allia	Castor oil, refined	8005323001	2
Lamotte/Allia	Castor oil, refined	8007232001	1
Lamotte/Alliance Health...	Castor oil, refined	8003726001	1
Lamotte/Alliance	Castor oil, refined	124637	2
Lamotte/Alliance	Castor oil, refined	5450801	1
Lamotte/Anzag	Castor oil, refined	1000001914	2
Lamotte/Anzag	Castor oil, refined	1000002384	1
Lamotte/Anzag	Castor oil, refined	1000004554	2
Lamotte/Anzag	Castor oil, refined	1000005818	3
Lamotte/Anzag	Castor oil, refined	1000009899	2
Lamotte/Anzag	Castor oil, refined	1000010810	3
Lamotte/Anzag	Castor oil, refined	123812	1
lamotte/anzag	Castor oil, refined	5334001	1
Lamotte/Anzag	Castor oil, refined	8003726002	1
Lamotte/Anzag	Castor oil, refined	800372602	1
Lamotte/Anzag	Castor oil, refined	8005323001	1
lamotte/Gehe	Castor oil, refined	124189	2
Lamotte/gehe	Castor oil, refined	1241892	1
lamotte/Gehe	Castor oil, refined	124637	1
Lamotte/gehe	Castor oil, refined	125162	1
Lamotte/gehe	Castor oil, refined	125473	1
Lamotte/Gehe	Castor oil, refined	1914	2
Lamotte/Gehe	Castor oil, refined	4198	1
Lamotte/Gehe	Castor oil, refined	8003726002	1
Lamotte/Gehe	Castor oil, refined	8007232001	2
Lamotte/Krieger	Castor oil, refined	1000001128	1
Lamotte/L3	Castor oil, refined	5450801	1
Lamotte/N/04.06.13/PZN:...	Castor oil, refined	123384	1
lamotte/Novatis	Castor oil, refined	8006040002	1
Lamotte/Noweda	Castor oil, refined	1000004198	2
Lamotte/Noweda	Castor oil, refined	1000005199	2
Lamotte/Noweda	Castor oil, refined	1000013797	1
Lamotte/Noweda	Castor oil, refined	124189	1
Lamotte/Ph	Castor oil, refined	10000009899	1
Lamotte/Phoenix	Castor oil, refined	10000010335L101	1
Lamotte/Phoenix	Castor oil, refined	1000005199	1
Lamotte/Phoenix	Castor oil, refined	1000005818	1
Lamotte/Phoenix	Castor oil, refined	1000009899	3
Lamotte/Phoenix	Castor oil, refined	1000010810	3
Lamotte/Phoenix	Castor oil, refined	8003726001	2
Lamotte/Phoenix	Castor oil, refined	8005323001	2
Lamotte/Phönix	Castor oil, refined	1000003564	7
Lamotte/Phönix	Castor oil, refined	1000004198	2
Lamotte/Phönix	Castor oil, refined	1000005199	2
Lamotte/Phönix	Castor oil, refined	1000005818	2
Lamotte/Phönix	Castor oil, refined	1000009899	1
Lamotte/Phönix	Castor oil, refined	1128	1
lamotte/Phönix	Castor oil, refined	5899201	1
Lamotte/Phönix	Castor oil, refined	8003726001	1
Lamotte/Phönix	Castor oil, refined	8003726002	1
Lamotte/Phönix	Castor oil, refined	8005323001	1
Lamotte/Sanacorp 18.01....	Castor oil, refined	8007232001	1
Lamotte/Sanacorp	Castor oil, refined	1000001128	2
Lamotte/Sanacorp	Castor oil, refined	1000002384	2
Lamotte/Sanacorp	Castor oil, refined	1000003888L101	1
Lamotte/Sanacorp	Castor oil, refined	1000004198	1
Lamotte/Sanacorp	Castor oil, refined	1000009899	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Sanacorp	Castor oil, refined	123812	1
Lamotte/Sanacorp	Castor oil, refined	124189	3
Lamotte/Sanacorp	Castor oil, refined	125162	1
Lamotte/Sanacorp	Castor oil, refined	125473	3
Lamotte/Sanacorp	Castor oil, refined	5899201	1
Lamotte/Sanacorp	Castor oil, refined	8003726001	1
LaMotte/Spangro	Castor oil, refined	1000004554	2
LaMotte/Spangro	Castor oil, refined	8003726001	1
Lamotte	Castor oil, refined	1000000714	1
Lamotte	Castor oil, refined	1000002384	1
Lamotte	Castor oil, refined	1000003564	1
lamotte	Castor oil, refined	1000004198	1
Lamotte	Castor oil, refined	1000004198	1
Lamotte	Castor oil, refined	10000045545455	1
Lamotte	Castor oil, refined	1000007717	1
Lamotte	Castor oil, refined	1000007724L100	1
Lamotte	Castor oil, refined	1000009899	2
Lamotte	Castor oil, refined	100003564	1
Lamotte	Castor oil, refined	123812	2
Lamotte	Castor oil, refined	124189	2
Lamotte	Castor oil, refined	5188401	1
Lamotte	Castor oil, refined	5199	1
Lamotte	Castor oil, refined	5334001	3
lamotte	Castor oil, refined	5450801	1
Lamotte	Castor oil, refined	5450801	4
Lamotte	Castor oil, refined	8003726001	2
Lamotte	Castor oil, refined	800532001	1
Lamotte	Castor oil, refined	8005323001	4
Marktapotheke	Castor oil, refined	1512024-02	1
Now/Cael030.12.16 EUR2,25	Castor oil, refined	16236202	1
Noweda / H. Lamotte	Castor oil, refined	1000004198	1
Noweda / Henry Lamotte	Castor oil, refined	123384	2
Noweda / Henry Lamotte	Castor oil, refined	5280301	1
Noweda / Henry Lamotte	Castor oil, refined	5334001	2
Noweda 21.10.2019	Castor oil, refined	18006815	1
Noweda/ Bombatus	Castor oil, refined	305230	1
Noweda/Euro	Castor oil, refined	1611005-02	1
Noweda/Henry Lamotte	Castor oil, refined	1000001914	1
Noweda/Henry Lamotte	Castor oil, refined	123812	4
Noweda/Henry Lamotte	Castor oil, refined	124637	1
Noweda/Henry Lamotte	Castor oil, refined	125473	1
Noweda/Henry Lamotte	Castor oil, refined	5899201	2
Noweda	Castor oil, refined	1000003564	1
Noweda	Castor oil, refined	1000004554	1
Noweda	Castor oil, refined	1000005818	1
Noweda	Sorbitan- and glycerol monoo...	10420	1
Noweda	Castor oil, refined	1304013-01	1
Noweda	Castor oil, refined	1308019-01	1
Noweda	Castor oil, refined	13196313	1
Noweda	Castor oil, refined	16167202	1
Noweda	Castor oil, refined	19002830	1
Noweda	Castor oil, refined	19006129	2
Noweda	Castor oil, refined	1902019-01	2
Noweda	Castor oil, refined	19080701	1
Noweda	Castor oil, refined	192831005	1
Noweda	Castor oil, refined	20002353001	1
Noweda	Castor oil, refined	273390	1
Noweda	Castor oil, refined	8003726002	2
Noweda	Castor oil, refined	8004605002	1
Otto Fischar Gmbh	Castor oil, refined	5334001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Otto Fischar	Castor oil, refined	1000001914	1
Ph.Eur.	Castor oil, refined	6861795	1
Ph.Eur.8.0	Castor oil, refined	140705301	1
Pharmachem/ Phönix	Sorbitan- and glycerol monoo...	ZA143/19	1
Pharmachem	Sorbitan- and glycerol monoo...	231017	1
Pharmachem	Sorbitan- and glycerol monoo...	280617	1
phö	Castor oil, refined	5450801	1
Phoenix 06.09.2018 2,99EUR	Castor oil, refined	1801007-01	4
Phoenix 14.09.18	Castor oil, refined	18001340	1
Phoenix 15.08.2017 3,67EUR	Castor oil, refined	1611005-02	1
phoenix Bomastus	Castor oil, refined	17002280	2
Phoenix/ Bombatus-Werke...	Castor oil, refined	17002280	1
Phoenix/ Henry Lamotte	Castor oil, refined	125162	1
Phoenix/Lamotte	Castor oil, refined	123812	2
Phoenix	Castor oil, refined	1000006447	1
Phoenix	Castor oil, refined	1705035-01	1
Phoenix	Castor oil, refined	17107407	1
Phoenix	Castor oil, refined	17359304	1
Phoenix	Castor oil, refined	18003729	1
Phoenix	Castor oil, refined	18003730	1
Phoenix	Castor oil, refined	180100-01	1
Phoenix	Castor oil, refined	19002830	1
Phoenix	Castor oil, refined	20001513002	1
Phoenix	Castor oil, refined	20002401	1
Phoenix	Castor oil, refined	308825	1
Phönix Gotha	Castor oil, refined	1509003-01	1
Phönix/Fischar	Castor oil, refined	17002280	1
Phönix/Henry Lamotte	Castor oil, refined	1000005199	1
Phönix/Henry Lamotte	Castor oil, refined	1000009899	1
Phönix	Castor oil, refined	1212008-01	1
Phönix	Castor oil, refined	123384	1
Phönix	Castor oil, refined	13043601	1
Phönix	Castor oil, refined	1308019-01	1
Phönix	Castor oil, refined	1403024-01	1
Phönix	Castor oil, refined	1512024-02	1
Phönix	Castor oil, refined	1611005-01	1
Phönix	Castor oil, refined	17251901	1
Phönix	Castor oil, refined	17251906	1
phönix	Castor oil, refined	17h22-b01-341158	1
Phonix	Castor oil, refined	1807003-01	1
Phönix	Castor oil, refined	19002830	1
Phönix	Castor oil, refined	1902019-01	1
Phönix	Castor oil, refined	20002401	3
Phönix	Castor oil, refined	21002000002	1
Phönix	Sorbitan- and glycerol monoo...	21115	2
phönix	Castor oil, refined	305230	2
PHÖNIX	Castor oil, refined	308825	1
Products Company	Castor oil, refined	1604019-02	1
Rez	Castor oil, refined	5519	2
Rondell Apotheke	Castor oil, refined	15145101	1
Sana 10.02.15 EK 2,57	Castor oil, refined	1407053-02	1
sana	Castor oil, refined	20002353001	1
Sanacorp 22.11.21, 4,77EUR	Castor oil, refined	211125	1
Sanacorp, 9,48EUR, 17.1.17	Castor oil, refined	301587	1
Sanacorp/ Lamotte	Castor oil, refined	1000010810	2
Sanacorp	Castor oil, refined	1000005199	1
Sanacorp	Castor oil, refined	12149306	1
Sanacorp	Castor oil, refined	12270111	1
Sanacorp	Castor oil, refined	123812	3
Sanacorp	Castor oil, refined	128224	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Castor oil, refined	130260	1
Sanacorp	Castor oil, refined	13196308	1
Sanacorp	Castor oil, refined	14020105	1
Sanacorp	Castor oil, refined	14330601	1
Sanacorp	Castor oil, refined	1504006-01	1
Sanacorp	Castor oil, refined	1509003-01	1
sanacorp	Castor oil, refined	15144302	2
sanacorp	Castor oil, refined	15A28-B07-304818	1
Sanacorp	Castor oil, refined	15D02-Bo2-311714	1
Sanacorp	Castor oil, refined	17002279	1
Sanacorp	Castor oil, refined	1705035-01	1
Sanacorp	Castor oil, refined	17107403	1
Sanacorp	Castor oil, refined	18001340	1
Sanacorp	Castor oil, refined	18003730	1
Sanacorp	Castor oil, refined	19006129	2
Sanacorp	Castor oil, refined	1902019-01	1
Sanacorp	Castor oil, refined	19080706	2
Sanacorp	Castor oil, refined	19132603	2
Sanacorp	Castor oil, refined	281943	1
Sanacorp	Castor oil, refined	307459	1
Sanacorp	Castor oil, refined	308824	1
Sanacorp;09,04.15; 3,33EUR	Castor oil, refined	291722	1
Spinnrad	Castor oil, refined	1218301118	1
Spinnrad	Castor oil, refined	31730112	1
Stumpf/Henry Lamotte	Castor oil, refined	124189	4
Stumpf/Henry Lamotte	Castor oil, refined	125162	1
Unisan	Castor oil, refined	1504006-02	1
VDL	Castor oil, refined	290213	1
VDL; 9.58EUR; 6.10.2015	Castor oil, refined	294667	2
VDL;17.10.14.3,96EUR	Castor oil, refined	288639	1

- 293 383 spectra from 1324 *Apo-Ident* customers from a total of 52 375 batches from a further 342 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Castor oil, virgin / Sorbitan- and glycerol monooleate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Castor oil, virgin / Sorbitan- and glycerol monooleate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	820	0	67 679
Type B	0	1370	0	109 943
Type C	0	4071	4	293 287

The substance/substance group *Castor oil, virgin / Sorbitan- and glycerol monooleate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.2683 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.5620 %)
Type C	100.0000 % (> 99.6864 %)	99.9018 % (> 99.8282 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Castor oil, virgin / Sorbitan- and glycerol monooleate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Triglycerol diisostearate	35.48	–
Soy lecithin, liquid	45.43	–
Permethrin 25% solution	57.47	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Castor oil, virgin / Sorbitan- and glycerol monooleate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31574	31574	0.00	50.85
31726	31574	6.00	61.67
32344	32344	0.00	66.88
33072	33072	0.00	64.32
33454	34534	5.33	55.35
33455	31574	5.28	54.79
34534	34534	0.00	61.70
34771	34771	0.00	64.01
35029	35029	0.00	63.82
35284	35284	0.00	65.70
35296	35296	0.00	67.16
36338	36338	0.00	66.88
36339	36339	0.00	67.88

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
36341	36341	0.00	69.72
36346	36346	0.00	69.20
36351	36351	0.00	68.29
36359	36359	0.00	68.51
36360	36360	0.00	62.80

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Cedar leaf oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31106-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Cedar leaf oil; Oleum cedri e fol. aether.

Special notes

When selecting the *Cedar leaf oil* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Cedar leaf oil	2	1	1

Second-stage model

For differentiation of the substance/substance group *Cedar leaf oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Cedar leaf oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Cedar leaf oil	13337901	31106	40	1404622
Caelo	Cedar leaf oil	13337901	31200	40	20131011
Caelo	Cedar leaf oil	13337902	31421	60	20131011

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 140 spectra of 3 reference samples from the substance/substance group *Cedar leaf oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 2 different batches.
- 68 359 spectra from a total of 1411 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Cedar leaf oil*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cedar leaf oil	15305207	33607	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 12 spectra from 4 *Apo-Ident* customers from 1 batches from the substance/substance group *Cedar leaf oil*.

- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Cedar leaf oil	15305206	12

- 297 446 spectra from 1324 *Apo-Ident* customers from a total of 52 986 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Cedar leaf oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Cedar leaf oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	140	0	68 359
Type B	0	40	0	111 273
Type C	0	12	0	297 446

The substance/substance group *Cedar leaf oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.7143 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6882 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Cedar leaf oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Wormwood oil	56.65	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Cedar leaf oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31106	31106	0.00	86.88
31200	31106	1.44	88.27
31421	31106	2.35	89.54

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Cedar wood oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30938-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Cedar wood oil

Special notes

When selecting the *Cedar wood oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Cedar wood oil	6	3	14

Second-stage model

For differentiation of the substance/substance group *Cedar wood oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Cedar wood oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Cedar wood oil	12180708	30938	50	1404506
Caelo	Cedar wood oil	12180710	31267	40	20120628
Caelo	Cedar wood oil	14230204	32455	40	1610271
Caelo	Cedar wood oil	181579	34444	40	20180605*
Caelo	Cedar wood oil	181983	34453	40	20180718*
Caelo	Cedar wood oil	191665	34622	40	20190624*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 250 spectra of 6 reference samples from the substance/substance group *Cedar wood oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 249 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Cedar wood oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cedar wood oil	14230211	32748	40
Caelo	Cedar wood oil	16028815	33785	40
Caelo	Cedar wood oil	20004056008	36474	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 19 spectra from 16 *Apo-Ident* customers from 15 batches from the substance/substance group *Cedar wood oil*.
- Among them are spectra of independent samples from 14 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Bombastus	Cedar wood oil	18004870	1
Caelo	Cedar wood oil	12180703	1
Caelo	Cedar wood oil	12180709	1
Caelo	Cedar wood oil	12180710	1
Caelo	Cedar wood oil	12180715	1
Caelo	Cedar wood oil	1218718	1
Caelo	Cedar wood oil	14230211	4
Caelo	Cedar wood oil	16028804	1
Caelo	Cedar wood oil	16028805	1
Caelo	Cedar wood oil	16028812	1
Caelo	Cedar wood oil	16028815	1
Caelo	Cedar wood oil	18198313	1
Caelo	Cedar wood oil	191665003	2
L12	Cedar wood oil	18157901	1
Phönix	Cedar wood oil	308062	1

- 297 439 spectra from 1324 *Apo-Ident* customers from a total of 52 972 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Cedar wood oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Cedar wood oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

	False positive	True positive	False negative	True negative
Type A	0	250	0	68 249
Type B	0	120	0	111 193
Type C	0	19	0	297 439

The substance/substance group *Cedar wood oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.6000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6879 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Cedar wood oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Acorus oil	12.63	–
Dwarf pine oil	23.18	–
Verbena oil, nature-identical	24.44	–
Juniper oil	28.04	–
Cypress oil	29.27	–
Bergamot oil	35.11	–
Myrtle oil	37.65	–
Peppermint oil	38.56	–
Turpentine oil	41.66	–
Bitter orange oil	42.09	–
Citric oil	44.49	–
Caraway oil	46.77	–
Eucalyptus oil	48.33	–
Tea tree oil	49.45	–
Geranium oil, genuine	51.93	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Cedar wood oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30938	30938	0.00	25.11
31267	30938	1.96	23.98
32455	32455	0.00	24.71
34444	34444	0.00	27.91
34453	34453	0.00	25.10
34622	34622	0.00	24.82

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Cetiol® HE**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30755-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Cetiol® HE

Special notes

When selecting the *Cetiol® HE* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Cetiol® HE	4	3	31

Second-stage model

For differentiation of the substance/substance group *Cetiol® HE* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Cetiol® HE*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Cetiol® HE	11162809	30755	40	20110616
Caelo	Cetiol® HE	13292302	31179	40	1402589
Caelo	Cetiol® HE	13357702	31366	40	20131112
Caelo	Cetiol® HE	16254506	33459	40	20160901
Caelo	Cetiol® HE	16254506	33460	40	20160901

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 200 spectra of 5 reference samples from the substance/substance group *Cetiol® HE*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 299 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Cetiol® HE*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cetiol® HE	161120	32196	40
Caelo	Cetiol® HE	172830	33676	40
Caelo	Cetiol® HE	20002450003	35853	50

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 152 spectra from 88 *Apo-Ident* customers from 35 batches from the substance/substance group *Cetiol® HE*.

- Among them are spectra of independent samples from 31 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Bombastus	Cetiol® HE	16254506	1
Bombastus	Cetiol® HE	16254508	1
Caelo	Cetiol® HE	11081403	1
Caelo	Cetiol® HE	11162809	1
Caelo	Cetiol® HE	11162811	1
Caelo	Cetiol® HE	12361804	4
Caelo	Cetiol® HE	12361808	4
Caelo	Cetiol® HE	13158901	1
Caelo	Cetiol® HE	13158902	5
Caelo	Cetiol® HE	13158903	5
Caelo	Cetiol® HE	13158904	1
Caelo	Cetiol® HE	13292302	5
Caelo	Cetiol® HE	13357702	5
Caelo	Cetiol® HE	13357703	4
Caelo	Cetiol® HE	14033502	10
Caelo	Cetiol® HE	143033502	1
Caelo	Cetiol® HE	14322405	5
Caelo	Cetiol® HE	14322407	1
Caelo	Cetiol® HE	15298004	5
Caelo	Cetiol® HE	16112005	3
Caelo	Cetiol® HE	16254502	5
Caelo	Cetiol® HE	16254504	5
Caelo	Cetiol® HE	16254506	9
Caelo	Cetiol® HE	16254508	1
Caelo	Cetiol® HE	17072203	14
Caelo	Cetiol® HE	17283001	1
Caelo	Cetiol® HE	17283006	8
Caelo	Cetiol® HE	17283008	5
Caelo	Cetiol® HE	190935002	10
Caelo	Cetiol® HE	190935004	2
Caelo	Cetiol® HE	19093501	5
Caelo	Cetiol® HE	19093502	1
Caelo	Cetiol® HE	20002450002	3
Caelo	Cetiol® HE	20002450006	2
Caelo	Cetiol® HE	4111711	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Gehe	Cetiol® HE	17283008	1
Caesar & Loretz GmbH/Ph...	Cetiol® HE	190935002	1
Caesar & Loretz GmbH	Cetiol® HE	190935002	1
Caesar & Loretz GmbH	Cetiol® HE	19093501	5
Caesar/ Noweda	Cetiol® HE	2613E-01243	1
Carlo/Gehe/11,9	Cetiol® HE	19093501	1
GEHE	Cetiol® HE	12361804	1
Noweda	Cetiol® HE	13158903	1
Phönix	Cetiol® HE	13357702	1
Phönix	Cetiol® HE	14033502	2
Sanacorp	Cetiol® HE	1/AKD14	1

- 297 306 spectra from 1324 *Apo-Ident* customers from a total of 52 953 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Cetiol® HE* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Cetiol® HE* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	200	0	68 299
Type B	0	130	0	111 183
Type C	0	152	0	297 306

The substance/substance group *Cetiol® HE* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 96.0526 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Cetiol® HE* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Substance	Distance in main model	Distance in second-stage model
Polysorbate 80	14.99	–
Polysorbate 20	18.25	–
Macrogolglycerol ricinoleate	19.20	–
Polysorbate 60	24.45	–
Macrogol 20 glycerol monostearate type...	24.67	–
Macrogol 8 stereate type I	25.72	–
Macrogolglycerol hydroxystearate 40	31.91	–
Lauromacrogol 400	34.10	–
Macrogol ointment	36.04	–
Macrogol 4 lauryl ether	36.54	–
Macrogols 400	44.80	–
Macrogol-2-laurylether	46.43	–
Macrogols 300	54.81	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Cetiol® HE* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30755	31179	7.81	16.10
31179	31179	0.00	18.52
31366	31179	5.74	17.84
33459	31179	5.58	16.96
33460	31179	7.17	16.38

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Cineole**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`33897-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Cineole; Cineolum

Special notes

When selecting the *Cineole* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Cineole	3	1	0

Second-stage model

For differentiation of the substance/substance group *Cineole* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Cineole*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Cineole	173099	33897	40	20171205*
Caelo	Cineole	191846	34616	40	20190722*
Caelo	Cineole	21003193003	36051	40	20211206

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 120 spectra of 3 reference samples from the substance/substance group *Cineole*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 379 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Cineole*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cineole	20001181	35024	40

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 0 spectra from 0 *Apo-Ident* customers from 0 batches from the substance/substance group *Cineole*.

- Among them are spectra of independent samples from 0 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

- 297 458 spectra from 1324 *Apo-Ident* customers from a total of 52 987 batches from a further 344 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Cineole* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Cineole* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	120	0	68 379
Type B	0	40	0	111 273
Type C	0	0	0	297 458

The substance/substance group *Cineole* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.0000 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6899 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.

Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Cineole* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Eucalyptus oil	26.77	–
Turpentine oil	47.52	–
Rosemary oil	50.35	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Cineole* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
33897	33897	0.00	34.19
34616	34616	0.00	37.04
36051	34616	4.09	36.49

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Cinnamon bark oil, artificial**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30605-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Cinnamon bark oil, artificial; Oleum Cinnamomi artificiale

Special notes

When selecting the *Cinnamon bark oil, artificial* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Cinnamon bark oil, artificial	2	2	9

Second-stage model

For differentiation of the substance/substance group *Cinnamon bark oil, artificial* the following second-stage model is used:

- Submodel 16

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Cinnamon bark oil, artificial*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Cinnamon bark oi...	14377301	31617	60	20150107
Caelo	Cinnamon bark oi...	180217	34057	40	20180124*
Caelo	Cinnamon bark oi...	180217	34625	40	20180124*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 140 spectra of 3 reference samples from the substance/substance group *Cinnamon bark oil, artificial*. These samples are listed above in the *calibration samples* section. The reference samples come from 2 different batches.
- 68 359 spectra from a total of 1411 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Cinnamon bark oil, artificial*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cinnamon bark oil, artificial	16026505	33609	40
Caelo	Cinnamon bark oil, artificial	20001053	34989	40
Caelo	Cinnamon bark oil, artificial	16026505	33610	40

- 111 193 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 10 spectra from 8 *Apo-Ident* customers from 9 batches from the substance/substance group *Cinnamon bark oil, artificial*.
- Among them are spectra of independent samples from 9 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Cinnamon bark oil, artificial	10112014	1
Caelo	Cinnamon bark oil, artificial	11275903	1
Caelo	Cinnamon bark oil, artificial	12019604	1
Caelo	Cinnamon bark oil, artificial	14377304	1
Caelo	Cinnamon bark oil, artificial	14377307	1
Caelo	Cinnamon bark oil, artificial	16026509	1
Caelo	Cinnamon bark oil, artificial	18021701	2
Caelo	Cinnamon bark oil, artificial	18021710	1
Caelo	Cinnamon bark oil, artificial	2031501	1

- 297 448 spectra from 1324 *Apo-Ident* customers from a total of 52 978 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Cinnamon bark oil, artificial* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Cinnamon bark oil, artificial* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	140	0	68 359
Type B	0	120	0	111 193
Type C	0	10	0	297 448

The substance/substance group *Cinnamon bark oil, artificial* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.7143 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6884 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Cinnamon bark oil, artificial* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Cinnamon bark oil, Ceylon	6.82	10.23
Benzyl nicotinate	96.18	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Cinnamon bark oil, artificial* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31617	34057	2.73	16.35
34057	34057	0.00	16.71
34625	34625	0.00	18.21

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Cinnamon bark oil, Ceylon**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30251-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Cinnamon bark oil, Ceylon; Cinnamomi zeylanici corticis aetheroleum

Special notes

When selecting the *Cinnamon bark oil, Ceylon* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Cinnamon bark oil, Ceylon	4	3	32

Second-stage model

For differentiation of the substance/substance group *Cinnamon bark oil, Ceylon* the following second-stage model is used:

- Submodel 16

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Cinnamon bark oil, Ceylon*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Cinnamon bark oi...	14092802	31560	60	AR-15-FG-001171-01
Caelo	Cinnamon bark oi...	163243	33091	40	20161129*
Caelo	Cinnamon bark oi...	20002260	34990	40	20200721*
Caelo	Cinnamon bark oi...	21000324	35279	40	20210204*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 180 spectra of 4 reference samples from the substance/substance group *Cinnamon bark oil, Ceylon*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.

- 68 319 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Cinnamon bark oil, Ceylon*.

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cinnamon bark oil, Ceylon	15278210	33480	40
Caelo	Cinnamon bark oil, Ceylon	15278218	33783	40
Caelo	Cinnamon bark oil, Ceylon	180130	34992	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 67 spectra from 41 *Apo-Ident* customers from 35 batches from the substance/substance group *Cinnamon bark oil, Ceylon*.

- Among them are spectra of independent samples from 32 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
/Noweda	Cinnamon bark oil, Ceylon	13044802	2
Caelo	Cinnamon bark oil, Ceylon		2
Caelo	Cinnamon bark oil, Ceylon	12181403	2
Caelo	Cinnamon bark oil, Ceylon	12181408	1
Caelo	Cinnamon bark oil, Ceylon	13044802	4
Caelo	Cinnamon bark oil, Ceylon	13044808	1
Caelo	Cinnamon bark oil, Ceylon	13044809	2
Caelo	Cinnamon bark oil, Ceylon	13044810	3
Caelo	Cinnamon bark oil, Ceylon	14071203	1
Caelo	Cinnamon bark oil, Ceylon	14092802	3
Caelo	Cinnamon bark oil, Ceylon	14092805	5
Caelo	Cinnamon bark oil, Ceylon	14092806	2
Caelo	Cinnamon bark oil, Ceylon	15151106	1
Caelo	Cinnamon bark oil, Ceylon	15278206	3
Caelo	Cinnamon bark oil, Ceylon	15278210	1
Caelo	Cinnamon bark oil, Ceylon	16324307	2
Caelo	Cinnamon bark oil, Ceylon	16324308	3
Caelo	Cinnamon bark oil, Ceylon	180096801	1
Caelo	Cinnamon bark oil, Ceylon	18009801	3
Caelo	Cinnamon bark oil, Ceylon	180130005	1
Caelo	Cinnamon bark oil, Ceylon	18013004	3
Caelo	Cinnamon bark oil, Ceylon	18013005	1
Caelo	Cinnamon bark oil, Ceylon	18013015	2
Caelo	Cinnamon bark oil, Ceylon	18013019	1
Caelo	Cinnamon bark oil, Ceylon	20002514007	2
Caelo	Cinnamon bark oil, Ceylon	20004169005	1
Caelo	Cinnamon bark oil, Ceylon	24061702	1
Caelo	Cinnamon bark oil, Ceylon	24061703	1
Caesar & Loretz GmbH/No...	Cinnamon bark oil, Ceylon	18013004	1
Caesar & Loretz GmbH/No...	Cinnamon bark oil, Ceylon	18013010	1
Caesar & Loretz GmbH	Cinnamon bark oil, Ceylon	18013004	1
Caesar & Loretz GmbH	Cinnamon bark oil, Ceylon	18013010	1
Dr.Schlegels Resana/NOW	Cinnamon bark oil, Ceylon	1205-3566	1
Dr.Schlegels Resana/NOW	Cinnamon bark oil, Ceylon	1407-4584	1
Kögl	Cinnamon bark oil, Ceylon	20170928	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
L12	Cinnamon bark oil, Ceylon	18013004	1
Now	Cinnamon bark oil, Ceylon	15278210	1
Ölbaum / Anzag	Cinnamon bark oil, Ceylon	10220032803	1
Taoasis GmbH	Cinnamon bark oil, Ceylon	130111-110345	1
Taoasis	Cinnamon bark oil, Ceylon	130111-110762	1

- 297 391 spectra from 1324 *Apo-Ident* customers from a total of 52 953 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Cinnamon bark oil, Ceylon* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Cinnamon bark oil, Ceylon* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	180	0	68 319
Type B	0	120	0	111 193
Type C	0	65	2	297 391

The substance/substance group *Cinnamon bark oil, Ceylon* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.6667 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6876 %)	97.0149 % (> 92.5373 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Cinnamon bark oil, Ceylon* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Substance	Distance in main model	Distance in second-stage model
Cinnamon bark oil, artificial	11.67	12.36
Benzyl nicotinate	90.13	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Cinnamon bark oil, Ceylon* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31560	31560	0.00	32.69
33091	33091	0.00	28.89
34990	34990	0.00	18.35
35279	35279	0.00	15.15

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Citronella oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30208-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Citronella oil; Citronellae aetheroleum

Special notes

When selecting the *Citronella oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Citronella oil	5	3	81

Second-stage model

For differentiation of the substance/substance group *Citronella oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Citronella oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Citronella oil	12359903	31251	40	1405526
Caelo	Citronella oil	13287808	31408	40	20130827
Caelo	Citronella oil	14229803	31631	60	20140825
Caelo	Citronella oil	190590	34645	40	20190307*
Caelo	Citronella oil	21002216	35831	50	20210820*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 230 spectra of 5 reference samples from the substance/substance group *Citronella oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 269 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Citronella oil*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Citronella oil	162791	32692	40
Caelo	Citronella oil	172831	33675	40
Caelo	Citronella oil	20002042	35036	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 146 spectra from 80 *Apo-Ident* customers from 83 batches from the substance/substance group *Citronella oil*.

- Among them are spectra of independent samples from 81 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
ASAV/Noweda	Citronella oil	10507031858	1
Bergland	Citronella oil	C400822	1
Bombastus	Citronella oil	1213A-01974	1
Bombastus	Citronella oil	18000579	1
Bombastus	Citronella oil	18004736	5
Bombastus	Citronella oil	18004737	1
Bombastus	Citronella oil	1804737	1
Bombastus	Citronella oil	19001887	6
Bombastus	Citronella oil	19003198	4
Bombastus	Citronella oil	19004993	1
Bombastus	Citronella oil	20002149	1
Bombastus	Citronella oil	20002737	3
Bombastus	Citronella oil	269807	1
Bombastus	Citronella oil	276241	1
Bombastus	Citronella oil	280657	2
Bombastus	Citronella oil	286270	2
Bombastus	Citronella oil	289426	2
Bombastus	Citronella oil	296167	1
Bombastus	Citronella oil	297193	1
Bombastus	Citronella oil	297194	1
Bombastus	Citronella oil	302908	3
Bombastus	Citronella oil	302910	1
Bombastus	Citronella oil	303977	2
Bombastus	Citronella oil	305282	2
Bombastus	Citronella oil	309032	1
Bombastus	Citronella oil	310645	3
Caelo	Citronella oil	10193312	1
Caelo	Citronella oil	11074201	1
Caelo	Citronella oil	11074203	1
Caelo	Citronella oil	11101301	1
Caelo	Citronella oil	12359902	1
Caelo	Citronella oil	12359903	1
Caelo	Citronella oil	12359907	1
Caelo	Citronella oil	12359909	1
Caelo	Citronella oil	1328780	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Citronella oil	13287802	1
Caelo	Citronella oil	13287804	1
Caelo	Citronella oil	13287807	2
Caelo	Citronella oil	13287809	1
Caelo	Citronella oil	14229803	1
Caelo	Citronella oil	14229805	1
Caelo	Citronella oil	14229806	3
Caelo	Citronella oil	15222302	1
Caelo	Citronella oil	15222303	1
Caelo	Citronella oil	15257304	4
Caelo	Citronella oil	15257305	3
Caelo	Citronella oil	15257307	2
Caelo	Citronella oil	15257308	1
Caelo	Citronella oil	15257309	3
Caelo	Citronella oil	16014103	1
Caelo	Citronella oil	16279105	3
Caelo	Citronella oil	16279111	1
Caelo	Citronella oil	17283102	2
Caelo	Citronella oil	17364801	2
Caelo	Citronella oil	18084103	2
Caelo	Citronella oil	18084105	2
Caelo	Citronella oil	18084106	3
Caelo	Citronella oil	18325201	2
Caelo	Citronella oil	190590001	2
Caelo	Citronella oil	19059001	1
Caelo	Citronella oil	19059004	2
Caelo	Citronella oil	19059005	1
Caelo	Citronella oil	19059006	3
Caelo	Citronella oil	20002042002	2
Caelo	Citronella oil	20003596003	1
Caelo	Citronella oil	21002216001	1
Caelo	Citronella oil	21002216005	1
Caelo	Citronella oil	211227(20003596003)	1
Caelo	Citronella oil	276241	1
Caelo	Citronella oil	286270	1
Caelo	Citronella oil	303977	2
Caelo	Citronella oil	310645	2
Caelo	Citronella oil	3216M-01974	1
Caelo	Citronella oil	5117E-01974	1
Caelo	Citronella oil	9208297	1
Caesar & Loretz GmbH	Citronella oil	19059004	1
Caesar & Loretz GmbH	Citronella oil	20002042002	1
Caesar & Loretz GmbH	Citronella oil	20003596003	1
Caesar/Lorenz	Citronella oil	12224603	1
Fiebig	Citronella oil	17364801	1
Gehe	Citronella oil	115257304	1
Gehe	Citronella oil	15257304	1
Kaders	Citronella oil	131097	1
Kögl	Citronella oil	1701478	1
Kögl	Citronella oil	228107163916	1
Noweda	Citronella oil	17283102	1
Noweda	Citronella oil	19059004	1
Phoenix	Citronella oil	16279106	1
Phoenix	Citronella oil	19003198	1
Phoenix	Citronella oil	305282	1
Phönix Gotha	Citronella oil	288826	1
Resana	Citronella oil	1701-5627	1
Taoasis/Noweda	Citronella oil	4025121016491	1
Taoasis	Citronella oil	104719-124702106	1
Taoasis	Citronella oil	104719-125577	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Taoasis	Citronella oil	6151-12045	1

- 297 312 spectra from 1324 *Apo-Ident* customers from a total of 52 905 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Citronella oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Citronella oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	230	0	68 269
Type B	0	120	0	111 193
Type C	0	145	1	297 312

The substance/substance group *Citronella oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.3913 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.3151 % (> 97.2603 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Citronella oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Melissa oil	37.63	–
Rose oil (genuine / artificial)	39.20	–
Geranium oil, genuine	41.51	–
Tea tree oil	46.12	–
Matricaria oil, rich in (-)-alpha-bisa...	50.84	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Citronella oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31251	31251	0.00	41.23
31408	35831	3.62	41.27
31631	31251	2.65	42.96
34645	34645	0.00	42.04
35831	35831	0.00	39.63

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Citrus oils**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31017-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Citrus oils; Aurantii dulcis aetheroleum; Bitter orange oil; Citric oil; Grapefruit oil; Limonis aetheroleum; Oleum aurantii pericarpii; Oleum citri paradisi artificiale; Sweet orange oil

Special notes

When selecting the *Citrus oils* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Citrus oils	20	13	322

Second-stage model

For differentiation of the substance/substance group *Citrus oils* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Citrus oils*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Bitter orange oil	13303803	31861	60	1606482
Caelo	Bitter orange oil	15397901	32181	40	20151125
Caelo	Bitter orange oil	170369	33062	30	20170224*
Caelo	Bitter orange oil	191187	34601	40	20190503*
Caelo	Citric oil	13259522	31432	60	20130816
Caelo	Citric oil	183280	34627	40	20190122*
Caelo	Citric oil	22001195	36308	40	20220428*
Euro OTC	Citric oil	1202024-01	31524	60	20120312
Fagron	Citric oil	13E06-N10	31046	40	20130618
Fagron	Citric oil	12G13-B06-287454	31261	40	1407356
Caelo	Grapefruit oil	12367403	31017	40	1404621
Caelo	Grapefruit oil	13252306	31417	60	20130802
Caelo	Grapefruit oil	15429104	33630	40	20151222
Caelo	Grapefruit oil	191292	34606	40	20190508*
Caelo	Sweet orange oil	12043412	31164	40	1405105
Caelo	Sweet orange oil	13378901	31206	40	1405107
Caelo	Sweet orange oil	13024204	31273	40	20130124
Caelo	Sweet orange oil	13378906	31295	40	1407188
Caelo	Sweet orange oil	13401605	31297	40	20131220
Caelo	Sweet orange oil	13024204	31411	40	20130124
Caelo	Sweet orange oil	13378906	31418	60	20131127
Caelo	Sweet orange oil	191138	34438	40	20190430*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 970 spectra of 22 reference samples from the substance/substance group *Citrus oils*. These samples are listed above in the *calibration samples* section. The reference samples come from 20 different batches.

- 67 529 spectra from a total of 1393 batches from further 225 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 570 spectra of 14 reference samples from the substance/substance group *Citrus oils*.
- Among them are spectra of independent samples from 13 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Bitter orange oil	180889	34078	40
Caelo	Bitter orange oil	20000798	35032	40
Bombastus	Citric oil	22000886	36216	40
Caelo	Citric oil	162752	32687	40
Caelo	Citric oil	171068	33305	40
Caelo	Citric oil	192813	34722	40
Caelo	Citric oil	22000485	36176	40
Caelo	Grapefruit oil	172307	34054	40
Caelo	Grapefruit oil	182318	34237	40
Caelo	Grapefruit oil	21003280	35828	50
Caelo	Sweet orange oil	171596	33307	40
Caelo	Sweet orange oil	16015501	33467	40
Caelo	Sweet orange oil	192837	35033	40
Caelo	Bitter orange oil	15397901	32351	40

- 110 743 spectra from a total of 2652 batches from further 347 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 854 spectra from 388 *Apo-Ident* customers from 330 batches from the substance/substance group *Citrus oils*.
- Among them are spectra of independent samples from 314 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Anzag 15.11.12 ek:17,18	Citric oil	12040507	1
Anzag	Sweet orange oil	11310411	1
Apotheker-Bauer	Grapefruit oil		1
Bergland/ Noweda	Citric oil	K702513	1
Bergland	Citric oil	K501939	1
Bombastus	Citric oil	17000590	1
Bombastus	Sweet orange oil	17001382	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Citric oil	17001554	1
Bombastus	Citric oil	18001850	10
Bombastus	Citric oil	18002047	3
Bombastus	Citric oil	18003457	1
Bombastus	Citric oil	18006258	1
Bombastus	Sweet orange oil	18006507	1
Bombastus	Citric oil	18092216	1
Bombastus	Sweet orange oil	19001154	1
Bombastus	Citric oil	19001156	1
Bombastus	Citric oil	19005247	3
Bombastus	Sweet orange oil	19005887	1
Bombastus	Citric oil	20001099	2
Bombastus	Citric oil	256839	1
Bombastus	Citric oil	266679	1
Bombastus	Citric oil	269281	1
Bombastus	Sweet orange oil	271897	1
Bombastus	Citric oil	280999	4
Bombastus	Citric oil	284045	1
Bombastus	Citric oil	284351	1
Bombastus	Sweet orange oil	285361	1
Bombastus	Citric oil	285568	1
Bombastus	Citric oil	289673	1
Bombastus	Citric oil	294337	2
Bombastus	Citric oil	294951	1
Bombastus	Citric oil	297734	1
Bombastus	Citric oil	299753	1
Bombastus	Citric oil	300294	1
Bombastus	Citric oil	303673	1
Bombastus	Citric oil	305855	1
Bombastus	Citric oil	307781	1
Bombastus	Citric oil	308515	1
Caelo	Citric oil	10375003	1
Caelo	Citric oil	10375012	2
Caelo	Citric oil	10375014	1
Caelo	Sweet orange oil	10375113	1
Caelo	Citric oil	11231807	1
Caelo	Citric oil	1135408	1
Caelo	Citric oil	12040502	3
Caelo	Citric oil	12040504	9
Caelo	Sweet orange oil	120430103	1
Caelo	Sweet orange oil	12043403	4
Caelo	Sweet orange oil	12043406	1
Caelo	Sweet orange oil	12043409	1
Caelo	Sweet orange oil	12043410	1
Caelo	Bitter orange oil	12121802	1
Caelo	Sweet orange oil	12322603	1
Caelo	Citric oil	123600001	1
Caelo	Citric oil	123600002	1
Caelo	Citric oil	12360001	2
Caelo	Citric oil	12360002	6
Caelo	Citric oil	12360010c	1
Caelo	Citric oil	12360011	11
Caelo	Citric oil	12360012	7
Caelo	Citric oil	12360012x2	1
Caelo	Grapefruit oil	12367403	1
Caelo	Citric oil	12367408	1
Caelo	Sweet orange oil	1302404	1
Caelo	Sweet orange oil	13024202	1
Caelo	Sweet orange oil	13024204	4
Caelo	Citric oil	132259504	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Grapefruit oil	13252303	1
Caelo	Grapefruit oil	13252306	1
Caelo	Citric oil	1325904	1
Caelo	Citric oil	13259504	8
Caelo	Citric oil	13259508	8
Caelo	Citric oil	13259512	1
Caelo	Citric oil	13259523	6
Caelo	Sweet orange oil	13303803	1
Caelo	Sweet orange oil	13378906	1
Caelo	Sweet orange oil	13389401	1
Caelo	Sweet orange oil	13389406	3
Caelo	Sweet orange oil	13389407	1
Caelo	Citric oil	1359512	1
Caelo	Grapefruit oil	14107304	2
Caelo	Citric oil	14121807	4
Caelo	Citric oil	14121808	2
Caelo	Citric oil	14121815	5
Caelo	Sweet orange oil	14133504	2
Caelo	Sweet orange oil	14133505	1
Caelo	Sweet orange oil	14150105	2
Caelo	Sweet orange oil	1418E-01959	1
Caelo	Sweet orange oil	14348803	3
Caelo	Sweet orange oil	14348809	1
Caelo	Citric oil	14365201	3
Caelo	Citric oil	14365202	4
Caelo	Citric oil	14365212	17
Caelo	Citric oil	14B14-B04-338799	1
Caelo	Sweet orange oil	15045101	8
Caelo	Sweet orange oil	15045104	2
Caelo	Sweet orange oil	15051313	1
Caelo	Citric oil	15051314	1
Caelo	Sweet orange oil	15051701	1
Caelo	Citric oil	15121403	1
Caelo	Grapefruit oil	15171201	1
Caelo	Citric oil	15182702	1
Caelo	Citric oil	15182703	14
Caelo	Citric oil	15182705	1
Caelo	Citric oil	15182711	6
Caelo	Citric oil	15182718	4
Caelo	Citric oil	15182721	1
Caelo	Sweet orange oil	15182904	1
Caelo	Sweet orange oil	15182907	1
Caelo	Sweet orange oil	15285	1
Caelo	Sweet orange oil	15316601	3
Caelo	Bitter orange oil	15397903	1
Caelo	Bitter orange oil	15397905	2
Caelo	Sweet orange oil	15402401	1
Caelo	Sweet orange oil	15402404	1
Caelo	Sweet orange oil	15402407	2
Caelo	Sweet orange oil	15402409	1
Caelo	Grapefruit oil	15429101	2
Caelo	Grapefruit oil	15429103	1
Caelo	Grapefruit oil	15429105	2
Caelo	Citric oil	15F29-B04	1
Caelo	Sweet orange oil	16015501	1
Caelo	Citric oil	16028702	12
Caelo	Citric oil	16028703	1
Caelo	Citric oil	16028709	1
Caelo	Citric oil	16028712	1
Caelo	Citric oil	16028715	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Citric oil	16028719	7
Caelo	Sweet orange oil	16083501	1
Caelo	Sweet orange oil	16083506	1
Caelo	Sweet orange oil	16083507	1
Caelo	Sweet orange oil	16083508	1
Caelo	Citric oil	16275202	14
Caelo	Citric oil	16275203	3
Caelo	Citric oil	16275216	16
Caelo	Sweet orange oil	17001382	1
Caelo	Citric oil	170106807	1
Caelo	Bitter orange oil	17036903	2
Caelo	Bitter orange oil	170369035481	1
Caelo	Citric oil	1706807	1
Caelo	Grapefruit oil	17072301	2
Caelo	Grapefruit oil	17072302	1
Caelo	Citric oil	17106802	1
Caelo	Citric oil	17106807	16
Caelo	Sweet orange oil	17159602	1
Caelo	Sweet orange oil	17159603	4
Caelo	Citric oil	1716807	1
Caelo	Grapefruit oil	17230701	1
Caelo	Citric oil	173201	1
Caelo	Citric oil	17321101	1
Caelo	Citric oil	17321102	1
Caelo	Citric oil	17321103	1
Caelo	Citric oil	17321104	1
Caelo	Sweet orange oil	17347506	3
Caelo	Sweet orange oil	17347509	1
Caelo	Sweet orange oil	17347510	1
Caelo	Sweet orange oil	17347513	3
Caelo	Citric oil	17814-B04-350559	1
Caelo	Citric oil	17B14-B04-334835	1
Caelo	Citric oil	17B14-B04-341736	1
Caelo	Citric oil	18092202	30
Caelo	Citric oil	18092204	1
Caelo	Citric oil	18092207	1
Caelo	Citric oil	18092208	1
Caelo	Citric oil	18092210	3
Caelo	Citric oil	18092211	1
Caelo	Citric oil	18092215	1
Caelo	Citric oil	18092216	8
Caelo	Sweet orange oil	18171601	4
Caelo	Sweet orange oil	18171603	1
Caelo	Sweet orange oil	18171609	4
Caelo	Sweet orange oil	18171610	1
Caelo	Grapefruit oil	18231803	3
Caelo	Citric oil	18328001	1
Caelo	Citric oil	18328003	19
Caelo	Citric oil	18328006	5
Caelo	Citric oil	18328008	10
Caelo	Citric oil	18328009	2
Caelo	Citric oil	18328011	5
Caelo	Citric oil	18328016	8
Caelo	Citric oil	18328018	1
Caelo	Citric oil	1832816	1
Caelo	Citric oil	18382003	1
Caelo	Sweet orange oil	19033301	5
Caelo	Sweet orange oil	19033302	1
Caelo	Sweet orange oil	19033311	1
Caelo	Sweet orange oil	191138002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Sweet orange oil	19113805	5
Caelo	Sweet orange oil	19113806	1
Caelo	Bitter orange oil	191187002	1
Caelo	Grapefruit oil	191292003	1
Caelo	Grapefruit oil	19129202	1
Caelo	Citric oil	192813001	16
Caelo	Citric oil	192813002	2
Caelo	Citric oil	192813004	2
Caelo	Citric oil	192813005	3
Caelo	Citric oil	192813006	2
Caelo	Citric oil	192813012	21
Caelo	Citric oil	192813015	1
Caelo	Citric oil	192813016	7
Caelo	Citric oil	1928132002	1
Caelo	Sweet orange oil	192837007	2
Caelo	Sweet orange oil	192837015	1
Caelo	Sweet orange oil	20003796002	3
Caelo	Sweet orange oil	20003796003	1
Caelo	Sweet orange oil	20003796014	2
Caelo	Citric oil	20004025004	7
Caelo	Citric oil	20004025008	1
Caelo	Citric oil	20004025010	1
Caelo	Citric oil	20004025012	1
Caelo	Citric oil	20004025013	3
Caelo	Citric oil	2004025008	1
Caelo	Citric oil	20111307	1
Caelo	Citric oil	20117	1
Caelo	Citric oil	20217OC16028702	1
Caelo	Sweet orange oil	21003265002	1
Caelo	Citric oil	21003697003	1
Caelo	Bitter orange oil	23061815	1
Caelo	Citric oil	24071801	1
Caelo	Citric oil	2515I-01973	1
Caelo	Sweet orange oil	26041703	1
Caelo	Citric oil	28051308	1
Caelo	Citric oil	2x192813002	1
Caelo	Citric oil	308515	2
Caelo	Citric oil	31121206	1
Caelo	Citric oil	3710A-01973	1
Caelo	Sweet orange oil	4111710	1
Caelo	Citric oil	619M-01973	1
Caelo	Sweet orange oil	7051301	1
Caelo	Sweet orange oil	8121204	1
Caelo	Citric oil	90(16275216)	1
Caelo	Sweet orange oil	91138002	1
Caelo	Citric oil	9322802	1
Caelo	Citric oil	9322815	1
Caelo	Citric oil	Caelo	1
Caeolo/Phoenix	Sweet orange oil	18171609	1
Caesar & Loretz GmbH / ...	Citric oil	192813	1
Caesar & Loretz GmbH/ G...	Citric oil	22000485005	1
Caesar & Loretz GmbH/ K...	Citric oil	18328003	1
Caesar & Loretz GmbH/ N...	Citric oil	18231803	1
Caesar & Loretz GmbH/Fi...	Citric oil	18092210	1
Caesar & Loretz GmbH/Gehe	Citric oil	18092202	1
Caesar & Loretz GmbH/GEHE	Citric oil	18328009	1
Caesar & Loretz GmbH/gehe	Sweet orange oil	19033307	1
Caesar & Loretz GmbH/Je...	Citric oil	18328003	1
Caesar & Loretz GmbH	Citric oil	17106807	1
Caesar & Loretz GmbH	Bitter orange oil	18088904	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Sweet orange oil	18171601	1
Caesar & Loretz GmbH	Citric oil	18328003	8
Caesar & Loretz GmbH	Citric oil	18328008	5
Caesar & Loretz GmbH	Citric oil	18328009	1
Caesar & Loretz GmbH	Citric oil	18328011	1
Caesar & Loretz GmbH	Citric oil	18328016	2
Caesar & Loretz GmbH	Sweet orange oil	19113805	2
Caesar & Loretz GmbH	Citric oil	192813001	1
Caesar & Loretz GmbH	Citric oil	192813004	1
Caesar & Loretz GmbH	Citric oil	192813006	1
Caesar & Loretz GmbH	Citric oil	192813012	3
Caesar & Loretz GmbH	Sweet orange oil	192837016	1
Caesar & Loretz GmbH	Sweet orange oil	20003796002	2
Caesar & Loretz GmbH	Citric oil	20004025004	4
CAESAR & LORETZ GMBH	Citric oil	20004025004	1
Calo	Sweet orange oil	13024204	1
Cealo	Citric oil	12360002	1
Cealo	Citric oil	20004025008	1
Eigenherstellung Defektur	Citric oil	6082101	1
Fagro/Gehe	Citric oil	14H06-B02-299949	1
Fagron	Citric oil		1
Fagron	Citric oil	1176523	1
Fagron	Citric oil	1198627	1
Fagron	Citric oil	11B04-N02	1
Fagron	Citric oil	11C28-N060363/440	2
Fagron	Citric oil	11I05-N13	1
Fagron	Citric oil	11K28-N04	1
Fagron	Citric oil	12A23-N05	8
Fagron	Citric oil	12A23-NO5	1
Fagron	Citric oil	12G04-N21	2
Fagron	Citric oil	12g13-b06-287454	1
Fagron	Citric oil	12G13-B06-287454	1
Fagron	Citric oil	13b01-n02	1
Fagron	Citric oil	13B01N02	2
Fagron	Citric oil	13B01-N02	5
Fagron	Citric oil	13E06-N10	6
Fagron	Citric oil	13K14-B03	2
Fagron	Citric oil	13K14-B03-289819	1
Fagron	Citric oil	13K14-B03-294706	6
Fagron	Citric oil	13K14-B03-787033	1
Fagron	Citric oil	13K14-BO3	1
Fagron	Citric oil	14H06_B02_308273	1
Fagron	Citric oil	14H06-B02	1
Fagron	Citric oil	14H06-B02-299949	5
Fagron	Citric oil	14H06-B02-301947	1
Fagron	Citric oil	14H06-B02-308273	4
Fagron	Citric oil	15F29-B04	2
Fagron	Citric oil	15F29-B04-309901	1
Fagron	Citric oil	15F29-B04-322985	3
Fagron	Citric oil	15F29-B04-325354	2
Fagron	Citric oil	15F29-B04-327600	3
Fagron	Citric oil	15F29-B04-328222	1
Fagron	Citric oil	15F29-B04-330854	1
Fagron	Citric oil	174B14-B04-352490	1
Fagron	Citric oil	17B14-B004	1
Fagron	Citric oil	17B14-B04	3
Fagron	Citric oil	17b14-b04-334835	1
Fagron	Citric oil	17B14-B04-334835	2
Fagron	Citric oil	17B14-B04-341736	2
Fagron	Citric oil	17B14-B04-349813	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Citric oil	17B14-B04-350559	2
Fagron	Citric oil	17B14-B04-352490	3
Fagron	Citric oil	18092202	1
Fagron	Citric oil	18328003	1
Fagron	Citric oil	19K11-08-366883	1
Fagron	Citric oil	19K11-F08-366880	2
Fagron	Citric oil	19k11-F08-366883	2
Fagron	Citric oil	19K11-F08-366883	3
Fagron	Citric oil	211222(19K11-F08-366883)	1
Fagron	Citric oil	268961	1
Fagron	Citric oil	602796	1
Fagron	Citric oil	645920	3
Fagron	Citric oil	709110	1
Fagron	Citric oil	733117	1
Fagron	Citric oil	881578	2
Fagron	Citric oil	984901	1
Fargon	Citric oil	17B14-B04-349813	1
Fiebig 09.11.12 ek:6,92	Sweet orange oil	11031802	1
Fiebig	Citric oil	17106802	2
Fiebig	Sweet orange oil	17347510	1
Fiebig	Citric oil	18092203	1
Fiebig	Sweet orange oil	18171604	1
Fiebig	Sweet orange oil	18171610	1
Gatt-Koller	Citric oil	1800504	1
Gehe	Citric oil	13K14-B03-294706	1
Gehe	Citric oil	15171201	2
GEHE	Citric oil	16275216	1
Gehe	Citric oil	17106807	1
Gehe	Sweet orange oil	18171609	1
Gehe	Citric oil	297734	1
Gehe	Citric oil	306549	1
Gehe	Citric oil	827023	2
Hänseler	Citric oil		6
Hänseler	Citric oil	2019040017	1
Jenne/Phoenix	Sweet orange oil	191138002	1
Jenne	Sweet orange oil	17347509	1
L12	Citric oil	17B14-B04-352490	1
Nachprüfung	Sweet orange oil	12043403	1
Noweda	Citric oil	12360002	1
Noweda	Citric oil	192813012	1
Ph.Eur.	Sweet orange oil	17159602	1
Phoenix Göttingen 07.01...	Citric oil	17B14-B04-350559	1
Phoenix	Sweet orange oil	16015502	1
Phoenix	Sweet orange oil	16083506	1
Phoenix	Sweet orange oil	17159603	2
Phoenix	Citric oil	310806	1
Phönix	Citric oil	1176523	1
Phönix	Citric oil	17B14-B04-341736	1
Phönix	Citric oil	17B14-B04-352490	1
Phönix	Citric oil	19K11-F08	1
Phönix	Citric oil	F08-3668803	1
Primavera	Citric oil	154A26	1
Primavera	Grapefruit oil	373D26	1
Primavera	Sweet orange oil	530914	1
Sanacorp	Citric oil		1
Sanacorp	Citric oil	12040504	1
Sanacorp	Citric oil	13259504	1
Sanacorp	Citric oil	15182711	1
Sanacorp	Citric oil	18092210	3
Sanacorp	Citric oil	18328008	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Citric oil	5/AKD1	1
Sanacrop	Citric oil	18328016	1
Spangro 7.11.18	Citric oil	17321101	1
Taoasis / Noweda	Sweet orange oil	B8583MX	1
Taoasis/Taoasis	Grapefruit oil	31564-118378	1
Taoasis/Taoasis	Grapefruit oil	44040A-127409	1
Taoasis	Citric oil	11635IT-N01	1
Taoasis	Citric oil	122527-122620	1
Taoasis	Citric oil	122650-123634	1
Taoasis	Citric oil	140116-115338	1
Taoasis	Citric oil	1401270-121612	1
Taoasis	Sweet orange oil	140129-115917	1
Taoasis	Citric oil	1786-125280	1
Taoasis	Citric oil	2LI08M-73396	1
Taoasis	Grapefruit oil	31564-120540	1
Taoasis	Grapefruit oil	333555-111392	1
Taoasis	Citric oil	3805201	1
Taoasis	Citric oil	3J16M-125453	1
Taoasis	Grapefruit oil	44040A-124468	1
Taoasis	Citric oil	4LI14M-118369	1
Taoasis	Citric oil	5LI12M-109229	1
Taoasis	Grapefruit oil	AR18-12022-3600	2
Taoasis	Citric oil	E200450-11318	1
Taosis GmbH	Sweet orange oil	128129	1
VDL;4,32EUR;25.04.15	Citric oil	14121815	1

- 296 604 spectra from 1324 *Apo-Ident* customers from a total of 52 660 batches from a further 340 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Citrus oils* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Citrus oils* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	970	0	67 529
Type B	0	570	0	110 743
Type C	0	846	8	296 604

The substance/substance group *Citrus oils* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.3814 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.9474 %)
Type C	100.0000 % (> 99.6875 %)	99.0632 % (> 98.7119 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Citrus oils* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Mandarin oil	16.85	–
Caraway oil	25.35	–
Bergamot oil	60.80	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Citrus oils* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31017	31017	0.00	41.14
31046	34627	8.01	31.99
31164	31164	0.00	42.33
31206	31206	0.00	43.59
31261	31261	0.00	28.48
31273	31206	2.69	46.60
31295	31295	0.00	42.83
31297	31295	2.68	44.18
31411	31295	1.99	44.22
31417	31164	2.39	41.26
31418	31295	1.80	42.35
31432	31261	2.01	27.59
31524	31261	5.67	29.40
31861	31861	0.00	27.99
32181	31861	8.83	36.23
33062	33062	0.00	34.37
33630	31164	2.61	40.17
34438	34438	0.00	40.94
34601	34601	0.00	33.03
34606	34606	0.00	42.14

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
34627	34627	0.00	30.48
36308	36308	0.00	22.08

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Clotrimazole 10% Cordes® RK**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30213-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Clotrimazole 10% Cordes® RK

Special notes

When selecting the *Clotrimazole 10% Cordes® RK* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Clotrimazole 10% Cordes® RK	4	2	14

Second-stage model

For differentiation of the substance/substance group *Clotrimazole 10% Cordes® RK* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Clotrimazole 10% Cordes® RK*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Ichthyol	Clotrimazole 10%...	12D016	31101	40	1507525
Ichthyol	Clotrimazole 10%...	14D009	31806	60	20140606
Ichthyol	Clotrimazole 10%...	14D009	32950	40	20140606
Ichthyol	Clotrimazole 10%...	17D005	34483	40	20170915
Ichthyol	Clotrimazole 10%...	20D0009	34837	40	20200306

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 220 spectra of 5 reference samples from the substance/substance group *Clotrimazole 10% Cordes® RK*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.

- 68 279 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Clotrimazole 10% Cordes® RK*.

- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Ichthyol	Clotrimazole 10% Cordes® RK	16D003	33498	40
Ichthyol	Clotrimazole 10% Cordes® RK	22D0035	36381	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 319 spectra from 54 *Apo-Ident* customers from 19 batches from the substance/substance group *Clotrimazole 10% Cordes® RK*.

- Among them are spectra of independent samples from 14 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD/ichthyol	Clotrimazole 10% Cordes® RK	14D0089	1
Bombastus	Clotrimazole 10% Cordes® RK	19002830	1
Caelo	Clotrimazole 10% Cordes® RK	14D009	1
Caelo	Clotrimazole 10% Cordes® RK	16D003	17
Caelo	Clotrimazole 10% Cordes® RK	17D005	1
Caesar & Loretz GmbH/Je...	Clotrimazole 10% Cordes® RK	18330004	2
Cordes/AHD	Clotrimazole 10% Cordes® RK	16D003	1
Cordes	Clotrimazole 10% Cordes® RK	11D044	1
Fiebig 30.04.2019	Clotrimazole 10% Cordes® RK	17D005	1
Gehe/ Ichthyol Gesellsc...	Clotrimazole 10% Cordes® RK	20D0009	1
Gehe/Ichthyol	Clotrimazole 10% Cordes® RK	20D0009	1
Ichhyol Gesellschaft	Clotrimazole 10% Cordes® RK	20D0009	2
Ichthol/Jenne	Clotrimazole 10% Cordes® RK	20D0009	35
Ichthol/Phönix	Clotrimazole 10% Cordes® RK	2D0009	1
Ichthyol Noweda	Clotrimazole 10% Cordes® RK	12D016	1
ICHTHYOL / Noweda	Clotrimazole 10% Cordes® RK	16D003	1
Ichthyol Gesellschaft C...	Clotrimazole 10% Cordes® RK	11D044	1
Ichthyol Gesellschaft/J...	Clotrimazole 10% Cordes® RK	16D003	2
Ichthyol Gesellschaft/N...	Clotrimazole 10% Cordes® RK	17D005	1
Ichthyol Geselschaft Co...	Clotrimazole 10% Cordes® RK	17D005	1
ichthyol/ Jenne und Phö...	Clotrimazole 10% Cordes® RK	12D016	11
ICHTHYOL/1	Clotrimazole 10% Cordes® RK	17D005	1
Ichthyol/AHCA	Clotrimazole 10% Cordes® RK	17D005	1
Ichthyol/AHD	Clotrimazole 10% Cordes® RK	12D016	1
Ichthyol/AHD	Clotrimazole 10% Cordes® RK	17D005	6
Ichthyol/AHD	Clotrimazole 10% Cordes® RK	17DQ05	1
Ichthyol/Alliance Healt...	Clotrimazole 10% Cordes® RK	120016	1
Ichthyol/Anzag	Clotrimazole 10% Cordes® RK	17D005	2
Ichthyol/E&J	Clotrimazole 10% Cordes® RK	16D003	1
Ichthyol/Gehe	Clotrimazole 10% Cordes® RK	14D009	2
Ichthyol/Gehe	Clotrimazole 10% Cordes® RK	16D003	1
Ichthyol/Gehe	Clotrimazole 10% Cordes® RK	17D005	6
Ichthyol/Jenne	Clotrimazole 10% Cordes® RK	11D044	1
Ichthyol/Jenne	Clotrimazole 10% Cordes® RK	17D005	119
Ichthyol/Noweda	Clotrimazole 10% Cordes® RK	14DD09	1
Ichthyol/Noweda	Clotrimazole 10% Cordes® RK	16D003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Noweda	Clotrimazole 10% Cordes® RK	17D005	2
Ichthyol/Phokd	Clotrimazole 10% Cordes® RK	16D003	1
Ichthyol/Phönix	Clotrimazole 10% Cordes® RK	16D003	1
Ichthyol/Phönix	Clotrimazole 10% Cordes® RK	17D005	2
Ichthyol/Phönix	Clotrimazole 10% Cordes® RK	20d0009	1
Ichthyol/Phönix	Clotrimazole 10% Cordes® RK	20D0009	1
Ichthyol/sanacorp	Clotrimazole 10% Cordes® RK	20D0009	1
Ichthyol	Clotrimazole 10% Cordes® RK	11D044	25
Ichthyol	Clotrimazole 10% Cordes® RK	12D016	8
Ichthyol	Clotrimazole 10% Cordes® RK	14D009	1
Ichthyol	Clotrimazole 10% Cordes® RK	16D003	1
Ichthyol	Clotrimazole 10% Cordes® RK	17D005	4
Ichthyol	Clotrimazole 10% Cordes® RK	9D036	9
Ichthyol4D/ Noweda	Clotrimazole 10% Cordes® RK	14D009	1
Ichthyol-Ges. / G	Clotrimazole 10% Cordes® RK	17D005	1
Ichthyol-Ges./Sanac.	Clotrimazole 10% Cordes® RK	16D003	1
Ichthyol-Ges./Sanac.	Clotrimazole 10% Cordes® RK	17D005	1
Ichthyol-Gesellschaft / K	Clotrimazole 10% Cordes® RK	12D016	1
Ichthyol-Gesellschaft /...	Clotrimazole 10% Cordes® RK	17D005	1
Ichthyol-Gesellschaft /...	Clotrimazole 10% Cordes® RK	20D0009	1
ICHTHYOL-GESELLSCHAFT C...	Clotrimazole 10% Cordes® RK	14D009	1
Ichthyol-Gesellschaft/ ...	Clotrimazole 10% Cordes® RK	16D003	1
Ichthyol-Gesellschaft/N...	Clotrimazole 10% Cordes® RK	110044	1
Ichthyol-Gesellschaft/S...	Clotrimazole 10% Cordes® RK	14D009	1
Ichthyol-Gesellschaft	Clotrimazole 10% Cordes® RK	12D016	2
Ichthyol-Gesellschaft	Clotrimazole 10% Cordes® RK	16D003	1
ICHTHYOL-GESELLSCHAFT	Clotrimazole 10% Cordes® RK	17D005	3
Ichthyol-Geselschaft/ N...	Clotrimazole 10% Cordes® RK	14D009	2
ichtiol gehe	Clotrimazole 10% Cordes® RK	16D03	1
ichtyol gesellschaft co...	Clotrimazole 10% Cordes® RK	17D005	2
Ichtyol/ Alliance	Clotrimazole 10% Cordes® RK	20D0009	1
Ichtyol	Clotrimazole 10% Cordes® RK	11D044	1
Ichtyol-Gesellschaft /G...	Clotrimazole 10% Cordes® RK	20D0009	1
Noweda/Ichthyol-Gesells...	Clotrimazole 10% Cordes® RK	12D016	3
Noweda	Clotrimazole 10% Cordes® RK	14D009	1
Noweda	Clotrimazole 10% Cordes® RK	17D005	1
Sanacorp	Clotrimazole 10% Cordes® RK	16D003	1
THC/ Phönix Pharma Eink...	Clotrimazole 10% Cordes® RK	128843	1
WE 29.11.16 Ichthyol/Sa...	Clotrimazole 10% Cordes® RK	14D009	1

- 297 139 spectra from 1324 *Apo-Ident* customers from a total of 52 972 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Clotrimazole 10% Cordes® RK* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Clotrimazole 10% Cordes® RK* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

	False positive	True positive	False negative	True negative
Type A	0	220	0	68 279
Type B	0	80	0	111 233
Type C	0	317	2	297 139

The substance/substance group *Clotrimazole 10% Cordes® RK* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.2727 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6875 %)	99.3730 % (> 98.4326 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Clotrimazole 10% Cordes® RK* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Lanolin DAB	40.76	–
Basis Cordes® RK	47.61	–
Cooling cream DAB	66.54	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Clotrimazole 10% Cordes® RK* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31101	31101	0.00	93.58
31806	31101	19.16	112.84
32950	31101	22.47	107.99
34483	31101	8.03	100.32
34837	31101	6.80	91.86

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Clove oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30858-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Clove oil; Caryophylli floris aetheroleum

Special notes

When selecting the *Clove oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Clove oil	6	9	191

Second-stage model

For differentiation of the substance/substance group *Clove oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Clove oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Clove oil	12165905	30858	40	20120627
Caelo	Clove oil	13334902	31299	40	20131009
Caelo	Clove oil	13334902	31409	40	20131009
Euro OTC	Clove oil	1210057-01	31526	60	AR-14-FG-013260-01
Euro OTC	Clove oil	1505022	31707	60	0000010252
Euro OTC	Clove oil	1912007	34805	40	20200203*
Euro OTC	Clove oil	2007038	35119	40	20201001*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 320 spectra of 7 reference samples from the substance/substance group *Clove oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 179 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 370 spectra of 9 reference samples from the substance/substance group *Clove oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 9 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Clove oil	20005612	36219	40
Caelo	Clove oil	15402108	33299	40
Caelo	Clove oil	171965	33683	40
Caelo	Clove oil	22002227	36534	40
Euro OTC	Clove oil	1710036	33847	40
Euro OTC	Clove oil	1802017	33999	40
Euro OTC	Clove oil	1906025	34658	40
Euro OTC	Clove oil	2108025	35762	50
Euro OTC	Clove oil	2207003	36363	40

- 110 943 spectra from a total of 2657 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 955 spectra from 283 *Apo-Ident* customers from 196 batches from the substance/substance group *Clove oil*.

- Among them are spectra of independent samples from 190 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Clove oil	16131413	1
Alliance Health 03.01.2...	Clove oil	17354209	1
Anzag	Clove oil	10272002	3
Bombastus	Clove oil		1
Bombastus	Clove oil	1612020C/296428	1
Bombastus	Clove oil	17000945	3
Bombastus	Clove oil	18000797	6
Bombastus	Clove oil	18004278	3
Bombastus	Clove oil	18004760	1
Bombastus	Clove oil	19001976	1
Bombastus	Clove oil	20002025	3
Bombastus	Clove oil	2000G12	1
Bombastus	Clove oil	265673	1
Bombastus	Clove oil	267699	1
Bombastus	Clove oil	273027	1
Bombastus	Clove oil	274495	1
Bombastus	Clove oil	274829	1
Bombastus	Clove oil	279262	2
Bombastus	Clove oil	288875	2
Bombastus	Clove oil	294000	1
Bombastus	Clove oil	295672	2
Bombastus	Clove oil	296428	2
Bombastus	Clove oil	296568	4
Bombastus	Clove oil	296979	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Clove oil	297263	2
Bombastus	Clove oil	300899	1
Bombastus	Clove oil	300901	1
Bombastus	Clove oil	302351	1
Bombastus	Clove oil	302858	2
Bombastus	Clove oil	303337	1
Bombastus	Clove oil	307074	1
Bombastus	Clove oil	308074	2
Bombastus	Clove oil	308728	1
Bombastus	Clove oil	310830	6
Bombastus	Clove oil	60010610	1
Caelo	Clove oil		1
Caelo	Clove oil	10272012	3
Caelo	Clove oil	10272014	2
Caelo	Clove oil	11231702	8
Caelo	Clove oil	11231703	4
Caelo	Clove oil	11231704	3
Caelo	Clove oil	11231705	1
Caelo	Clove oil	11231706	8
Caelo	Clove oil	11231709	4
Caelo	Clove oil	11K17-No7	1
Caelo	Clove oil	12011502	1
Caelo	Clove oil	12165902	6
Caelo	Clove oil	12165904	1
Caelo	Clove oil	12165905	16
Caelo	Clove oil	12272004-1-0	1
Caelo	Clove oil	12380601	11
Caelo	Clove oil	123806012x	1
Caelo	Clove oil	13106501	12
Caelo	Clove oil	13106502	5
Caelo	Clove oil	13182301	18
Caelo	Clove oil	13182301-3373319042	1
Caelo	Clove oil	13334902	14
Caelo	Clove oil	13334905	8
Caelo	Clove oil	14133602	8
Caelo	Clove oil	14133603	5
Caelo	Clove oil	14133606	1
Caelo	Clove oil	14133608	9
Caelo	Clove oil	14243101	4
Caelo	Clove oil	14243102	1
Caelo	Clove oil	14243103	13
Caelo	Clove oil	14243104	18
Caelo	Clove oil	14243105	1
Caelo	Clove oil	15051508	1
Caelo	Clove oil	15101401	1
Caelo	Clove oil	15119303	2
Caelo	Clove oil	15119304	22
Caelo	Clove oil	1519304	1
Caelo	Clove oil	15316012	1
Caelo	Clove oil	15316101	2
Caelo	Clove oil	15316102	56
Caelo	Clove oil	15316103	20
Caelo	Clove oil	15316192	1
Caelo	Clove oil	15316403	1
Caelo	Clove oil	1540208	1
Caelo	Clove oil	154021	1
Caelo	Clove oil	15402101	10
Caelo	Clove oil	15402102	5
Caelo	Clove oil	15402108	30
Caelo	Clove oil	15402109	6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Clove oil	15402120	1
Caelo	Clove oil	16081806	1
Caelo	Clove oil	16121305	1
Caelo	Clove oil	16131401	18
Caelo	Clove oil	16131412	23
Caelo	Clove oil	16131413	35
Caelo	Clove oil	16131416	1
Caelo	Clove oil	17051402	1
Caelo	Clove oil	1735403	1
Caelo	Clove oil	1735405	1
Caelo	Clove oil	17354203	13
Caelo	Clove oil	17354205	28
Caelo	Clove oil	17354209	45
Caelo	Clove oil	18071302	1
Caelo	Clove oil	1809002-01	1
Caelo	Clove oil	181178002	1
Caelo	Clove oil	18121411	1
Caelo	Clove oil	181780002	1
Caelo	Clove oil	18178002	13
Caelo	Clove oil	181780022	1
Caelo	Clove oil	18178004	1
Caelo	Clove oil	18178005	27
Caelo	Clove oil	18178009	2
Caelo	Clove oil	18178013	3
Caelo	Clove oil	19066804	22
Caelo	Clove oil	19066805	4
Caelo	Clove oil	19066809	3
Caelo	Clove oil	19081706	1
Caelo	Clove oil	1912007-01	1
Caelo	Clove oil	193031001	17
Caelo	Clove oil	193031005	6
Caelo	Clove oil	193031006	22
Caelo	Clove oil	20003989002	1
Caelo	Clove oil	20003989004	16
Caelo	Clove oil	20003989006	1
Caelo	Clove oil	20003989009	2
Caelo	Clove oil	20021308	1
Caelo	Clove oil	2081402	1
Caelo	Clove oil	2091306	1
Caelo	Clove oil	21002670001	2
Caelo	Clove oil	21002670008	1
Caelo	Clove oil	21111817	1
Caelo	Clove oil	23041404	1
Caelo	Clove oil	23051405	1
Caelo	Clove oil	23081402	1
Caelo	Clove oil	265130	1
Caelo	Clove oil	267700	1
Caelo	Clove oil	272735	2
Caelo	Clove oil	28051313	1
Caelo	Clove oil	28051510	1
Caelo	Clove oil	294000	2
Caelo	Clove oil	2965568	1
Caelo	Clove oil	297263	1
Caelo	Clove oil	30111304	1
Caelo	Clove oil	302858	2
Caelo	Clove oil	303337	1
Caelo	Clove oil	3512M-01969	1
Caelo	Clove oil	3613Q01969	1
Caelo	Clove oil	402109	1
Caelo	Clove oil	4061404	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Clove oil	6071501	1
Caelo	Clove oil	7051806	1
Caelo	Clove oil	9308768	2
Caelo	Clove oil	0-130513-1	1
Caesar & Loretz GmbH / ...	Clove oil	20003989004	1
Caesar & Loretz GmbH/Al...	Clove oil	193031001	1
Caesar & Loretz GmbH/Al...	Clove oil	193031006	1
Caesar & Loretz GmbH/No...	Clove oil	193031001	3
Caesar & Loretz GmbH/Ph...	Clove oil	19066804	3
Caesar & Loretz GmbH/Ph...	Clove oil	19066804	1
Caesar & Loretz GmbH/Sa...	Clove oil	18178002	2
Caesar & Loretz GmbH/Sa...	Clove oil	19066805	1
Caesar & Loretz GmbH/Sa...	Clove oil	19066809	2
Caesar & Loretz GmbH/Sa...	Clove oil	20003989002	1
Caesar & Loretz GmbH	Clove oil	16131413	1
Caesar & Loretz GmbH	Clove oil	17354209	2
Caesar & Loretz GmbH	Clove oil	18178005	2
Caesar & Loretz GmbH	Clove oil	18178013	4
Caesar & Loretz GmbH	Clove oil	19066804	5
Caesar & Loretz GmbH	Clove oil	19066805	1
Caesar & Loretz GmbH	Clove oil	19066809	2
Caesar & Loretz GmbH	Clove oil	193031005	3
Caesar & Loretz GmbH	Clove oil	193031006	5
CAESAR & LORETZ GMBH	Clove oil	193031006	1
Caesar & Loretz GmbH	Clove oil	20003989002	1
Caesar & Loretz GmbH	Clove oil	20003989004	2
Caesar & Loretz GmbH	Clove oil	20003989006	1
Caesar & Loretz GmbH	Clove oil	20003989009	2
Caesar & Loretz	Clove oil	15402102	1
Caesar/Noweda	Clove oil	12165902	1
Caesar/Noweda	Clove oil	13334905	1
Caesar-Loretz/Fiebig	Clove oil	16131413	1
Calo, Hilden/ Phönix	Clove oil	19066804	2
Calo	Clove oil	13106501	1
Cealo	Clove oil	12165905	1
Cealo	Clove oil	193031006	1
Celo/Gehe 28.04.22 18,55EUR	Clove oil	20003989009	1
EuRho	Clove oil	1210057-01	2
Euro OTC	Clove oil	1108015-01	2
Euro OTC	Clove oil	1206012-01	1
Euro OTC	Clove oil	1206013-01	8
Euro OTC	Clove oil	121005701	1
Euro OTC	Clove oil	1210057-01	1
Euro OTC	Clove oil	1505022-01	3
Euro OTC	Clove oil	1505022-02	1
Euro OTC	Clove oil	15402101	1
Euro OTC	Clove oil	171003601	1
Euro OTC	Clove oil	1809002-01	2
Euro OTC	Clove oil	2007038-01	2
Euro OTC	Clove oil	274495	1
Euro OTC	Clove oil	5210A-01969	1
Euro OTC	Clove oil	725892	1
Euro/Gehe	Clove oil	1210057-01	1
Fagron	Clove oil	11K17-N07	3
Fagron	Clove oil	11L21-N07	2
Fagron	Clove oil	11L21-N07	1
Fagron	Clove oil	12C27N04	3
Fagron	Clove oil	12C27-N04	2
Fagron	Clove oil	12F01-N01	5
Fagron	Clove oil	13L03-B01	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Clove oil	13L03-B01_294950	1
Fagron	Clove oil	13L03-B01-292270	1
Fagron	Clove oil	14G11-B04-297218	3
Fagron	Clove oil	1512211969	1
Fagron	Clove oil	18178002	1
Fagron	Clove oil	204211969	1
Fagron	Clove oil	208211969	1
Fagron	Clove oil	3113Q01969	1
Fagron	Clove oil	3716Q-01969	1
Fagron	Clove oil	792191	1
Fagron	Clove oil	826188	1
Fiebig	Clove oil	18178002	1
Fischar/Gehe	Clove oil	13334905	1
Gatt-Koller	Clove oil	1900308	1
Gehe/ EuRho	Clove oil	1906025-01	1
Gehe/Lamotte	Clove oil	16131401	1
Gehe	Clove oil	13106501	1
Gehe	Clove oil	14243103	1
Gehe	Clove oil	14243104	1
Gehe	Clove oil	15316103	1
GEHE	Clove oil	15402108	1
GEHE	Clove oil	16131414	1
GEHE	Clove oil	17354205	1
Gehe	Clove oil	303338	1
Henry Lamotte Oils GmbH	Clove oil	18178002	2
Jenne	Clove oil	17354209	1
Jenne	Clove oil	18178005	1
Kögl	Clove oil		1
Kögl	Clove oil	102415	1
Kögl	Clove oil	1700323	1
Kögl	Clove oil	307209160217	1
Kögl	Clove oil	428812160317	1
L10	Clove oil	16131413	1
L12	Clove oil	15402108	2
L12	Clove oil	16131401	3
L30	Clove oil	17354205	2
L30	Clove oil	17354209	1
Nachprüfung	Clove oil	123456	1
Nachprüfung	Clove oil	220Q-01969	1
Noweda	Clove oil	1031374	1
Noweda	Clove oil	1066804	1
Noweda	Clove oil	13334902	1
Noweda	Clove oil	15316102	1
Noweda	Clove oil	17354209	1
Noweda	Clove oil	18178005	2
Noweda	Clove oil	19066804	1
Noweda	Clove oil	19066809	1
Phoenix	Clove oil	15316102	1
Phönix/Kremer	Clove oil	15402108	1
Phönix	Clove oil	12165905	1
Phonix	Clove oil	13334905	1
Phönix	Clove oil	15402108	1
Phönix	Clove oil	18178013	2
phönix	Clove oil	297263	1
Primavera/Direkt	Clove oil	389D25	1
Primavera/Sanacorp	Clove oil	356D25	1
Primavera	Clove oil	282A28	1
Sanacop/Taoasis	Clove oil	2352-6320	1
Sanacorp EK:17,64 EU...	Clove oil	15402109	1
Sanacorp	Clove oil	12165905	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Clove oil	16131401	1
Sanacorp	Clove oil	16131410	1
Sanacorp	Clove oil	16131414	1
Sanacorp	Clove oil	17354204	1
Sanacorp	Clove oil	18178005	1
Sanacorp	Clove oil	193031005	2
Taoasis/ Sanacorp	Clove oil	B130612-112414	1
Taoasis	Clove oil	130301-110695	2
Taoasis	Clove oil	97204	1
Vögele	Clove oil	2017107539	1
Vögele	Clove oil	2018100124	1
Vögele	Clove oil	2018102519	1
WE:Sanacorp 13.08.2016...	Clove oil	15316103	1
Wolf	Clove oil	6811	1

- 296 503 spectra from 1324 *Apo-Ident* customers from a total of 52 794 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Clove oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Clove oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	320	0	68 179
Type B	0	370	0	110 943
Type C	0	948	7	296 503

The substance/substance group *Clove oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.1250 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.3784 %)
Type C	100.0000 % (> 99.6875 %)	99.2670 % (> 98.9529 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.

Where the number of spectra does not exceed 20, no *recognition rate* is provided.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Clove oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Eugenol	22.55	–
Pine tar	210.07	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Clove oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30858	34805	3.00	40.94
31299	34805	4.32	35.88
31409	35119	3.83	35.02
31526	31526	0.00	26.93
31707	31707	0.00	38.00
34805	34805	0.00	38.15
35119	35119	0.00	32.57

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Coal tar spirit SR**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31126-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Coal tar spirit SR; Spiritus picis lithanthracis SR

Special notes

When selecting the *Coal tar spirit SR* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Coal tar spirit SR	4	2	91

Second-stage model

For differentiation of the substance/substance group *Coal tar spirit SR* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Coal tar spirit SR*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
apomix	Coal tar spirit SR	04C151014	31626	60	20141022
apomix	Coal tar spirit SR	05B170715	33466	40	20150728
Fagron	Coal tar spirit SR	13D05-M14	31126	40	1403343
Fagron	Coal tar spirit SR	05A290319	34595	40	20190409

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 180 spectra of 4 reference samples from the substance/substance group *Coal tar spirit SR*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 319 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Coal tar spirit SR*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
apomix	Coal tar spirit SR	01B180220	35459	40
Fagron	Coal tar spirit SR	04B200916	33464	40
Fagron	Coal tar spirit SR	04B200916	33465	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 193 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 316 spectra from 208 *Apo-Ident* customers from 100 batches from the substance/substance group *Coal tar spirit SR*.

- Among them are spectra of independent samples from 91 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Anzag	Coal tar spirit SR	2A140219	1
apomix	Coal tar spirit SR	1A040112	1
apomix	Coal tar spirit SR	1A140115	2
apomix	Coal tar spirit SR	1A170119	3
apomix	Coal tar spirit SR	1A180220	5
apomix	Coal tar spirit SR	1A190216	7
apomix	Coal tar spirit SR	1b020718	1
apomix	Coal tar spirit SR	1B020718	3
apomix	Coal tar spirit SR	1B120214	2
apomix	Coal tar spirit SR	1B180220	2
apomix	Coal tar spirit SR	1B190216	1
apomix	Coal tar spirit SR	1B300617	4
apomix	Coal tar spirit SR	1C020718	10
apomix	Coal tar spirit SR	1c300617	1
apomix	Coal tar spirit SR	1C300617	2
apomix	Coal tar spirit SR	1D020718	4
apomix	Coal tar spirit SR	2A161017	9
apomix	Coal tar spirit SR	2B040121	1
apomix	Coal tar spirit SR	2B070316	1
apomix	Coal tar spirit SR	2B270215	2
apomix	Coal tar spirit SR	2C040413	1
apomix	Coal tar spirit SR	2C16101	1
apomix	Coal tar spirit SR	2C161017	1
apomix	Coal tar spirit SR	2C280414	2
apomix	Coal tar spirit SR	2D161017	1
apomix	Coal tar spirit SR	3A111018	5
apomix	Coal tar spirit SR	3A170616	1
apomix	Coal tar spirit SR	3A200320	1
apomix	Coal tar spirit SR	3B010415	1
apomix	Coal tar spirit SR	3B111018	2
apomix	Coal tar spirit SR	3B170616	5
apomix	Coal tar spirit SR	3B270613	2
apomix	Coal tar spirit SR	3C230508	1
apomix	Coal tar spirit SR	4A070319	4
apomix	Coal tar spirit SR	4A170615	2
apomix	Coal tar spirit SR	4A190712	1
apomix	Coal tar spirit SR	4B200916	1
apomix	Coal tar spirit SR	4B220813	1
apomix	Coal tar spirit SR	4B221009	1
apomix	Coal tar spirit SR	4C151014	1
apomix	Coal tar spirit SR	5A101210	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Coal tar spirit SR	5A231116	3
apomix	Coal tar spirit SR	5A260521	1
apomix	Coal tar spirit SR	5B170715	6
apomix	Coal tar spirit SR	5B231116	5
apomix	Coal tar spirit SR	5B270420	2
apomix	Coal tar spirit SR	5B271112	1
apomix	Coal tar spirit SR	5B290319	2
apomix	Coal tar spirit SR	5C231116	9
apomix	Coal tar spirit SR	6A210915	1
apomix	Coal tar spirit SR	6A211212	1
apomix	Coal tar spirit SR	6A300419	3
apomix	Coal tar spirit SR	6B031213	1
apomix	Coal tar spirit SR	6B090620	6
apomix	Coal tar spirit SR	7633599	1
apomix	Coal tar spirit SR	8A021220	5
apomix	Coal tar spirit SR	8A050619	3
apomix	Coal tar spirit SR	8B050619	2
apomix	Coal tar spirit SR	9A141019	7
Bombastus	Coal tar spirit SR	4C151014	1
Caelo	Coal tar spirit SR	1B020718	1
Caelo	Coal tar spirit SR	2A070316	2
Caelo	Coal tar spirit SR	2a120918	1
Caelo	Coal tar spirit SR	2A161017	1
Caelo	Coal tar spirit SR	3A111018	2
Caelo	Coal tar spirit SR	3B150507	1
Caelo	Coal tar spirit SR	5C271112	1
Caelo	Coal tar spirit SR	6A031213	1
Caelo	Coal tar spirit SR	6B031213	1
Caesar & Loretz GmbH / ...	Coal tar spirit SR	6A300419	1
Caesar & Loretz GmbH	Coal tar spirit SR	1B170119	2
Euro OTC	Coal tar spirit SR	1414/04-M02	1
Fagron	Coal tar spirit SR	10A021220	3
Fagron	Coal tar spirit SR	11E18-M02	1
Fagron	Coal tar spirit SR	13D05-M14	1
Fagron	Coal tar spirit SR	13G16-M01	1
Fagron	Coal tar spirit SR	14/04-M02	1
Fagron	Coal tar spirit SR	1404-M02	1
Fagron	Coal tar spirit SR	14A30M01	1
Fagron	Coal tar spirit SR	14A30-M01	2
Fagron	Coal tar spirit SR	14I04-M02	1
Fagron	Coal tar spirit SR	15C11-M09	2
Fagron	Coal tar spirit SR	170209SKTS02A070316	1
Fagron	Coal tar spirit SR	1A180220	1
Fagron	Coal tar spirit SR	2A070316	5
Fagron	Coal tar spirit SR	2A120918	14
Fagron	Coal tar spirit SR	2a140219	1
Fagron	Coal tar spirit SR	2A140219	12
Fagron	Coal tar spirit SR	2A180220	7
Fagron	Coal tar spirit SR	2A1880220	1
Fagron	Coal tar spirit SR	2A270215	2
Fagron	Coal tar spirit SR	2x05A290319	1
Fagron	Coal tar spirit SR	3A130614	1
Fagron	Coal tar spirit SR	4A270420	12
Fagron	Coal tar spirit SR	4b200916	1
Fagron	Coal tar spirit SR	4B200916	4
Fagron	Coal tar spirit SR	5a290319	1
Fagron	Coal tar spirit SR	5A290319	7
Fagron	Coal tar spirit SR	5C231116	1
Fagron	Coal tar spirit SR	6b210915	1
Fagron	Coal tar spirit SR	6B210915	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Coal tar spirit SR	7A160519	6
Fagron	Coal tar spirit SR	9A021220	5
Fargon/Noweda	Coal tar spirit SR	4A270420	1
Fiebig	Coal tar spirit SR	7a160519	1
Fragon	Coal tar spirit SR	1B170119	1
Gehe amax	Coal tar spirit SR	5C231116	1
Gehe	Coal tar spirit SR	13D05-M14	1
GEHE	Coal tar spirit SR	2A120918	1
Gehe	Coal tar spirit SR	6B211212	1
Hageda	Coal tar spirit SR	2A140219	1
Ichthyol-Gesellschaft	Coal tar spirit SR	1B300617	1
Kehr / PKH GmbH	Coal tar spirit SR	1A040121	1
Kehr/PKH Halle	Coal tar spirit SR	1A170119	1
noweda/anzag	Coal tar spirit SR	2A140219	1
Noweda/PKH Halle	Coal tar spirit SR	9A141019	1
Noweda	Coal tar spirit SR	2A140219	1
Noweda	Coal tar spirit SR	5A290319	1
Noweda	Coal tar spirit SR	7A160519	1
Phoenix	Coal tar spirit SR	2A180220	1
Phoenix	Coal tar spirit SR	3B170616	1
Phoenix	Coal tar spirit SR	4A270420	1
Phönix	Coal tar spirit SR	1B300617	1
PKH GmbH / Noweda	Coal tar spirit SR	7A160519	1
PKH GmbH/ Gehe	Coal tar spirit SR	3C170616	1
PKH GmbH/Noweda	Coal tar spirit SR	2A070316	2
PKH GmbH/Noweda	Coal tar spirit SR	2A140219	1
PKH GmbH/Noweda	Coal tar spirit SR	9A021220	1
PKH GmbH	Coal tar spirit SR	5B181113	1
PKH Halle / Anzag	Coal tar spirit SR	4C151014	1
PKH Halle / Noweda	Coal tar spirit SR	1A180220	1
pkh halle,phönix	Coal tar spirit SR	4A170615	1
PKH Halle/Phönix	Coal tar spirit SR	5B290319	1
PKH Halle/Sanacorp	Coal tar spirit SR	3A010415	1
PKH Halle	Coal tar spirit SR	1C300617	1
PKH Halle	Coal tar spirit SR	3B111018	1
PKH Halle	Coal tar spirit SR	3B130614	1
PKH Halle	Coal tar spirit SR	4C151014	1
PKH Halle	Coal tar spirit SR	5B170715	1
PKH Halle	Coal tar spirit SR	6B090620	1
PKH/ Noweda	Coal tar spirit SR	1B020718	1
Reichelt	Coal tar spirit SR	4B200916	1
Sanacorp	Coal tar spirit SR	4B151014	1

- 297 142 spectra from 1324 *Apo-Ident* customers from a total of 52 888 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Coal tar spirit SR* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Coal tar spirit SR* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	180	0	68 319
Type B	0	120	0	111 193
Type C	0	314	2	297 142

The substance/substance group *Coal tar spirit SR* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.6667 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.3671 % (> 98.4177 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Coal tar spirit SR* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Ethanol 96%	50.86	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Coal tar spirit SR* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31126	31126	0.00	71.89
31626	31126	4.54	71.97
33466	31126	12.67	66.93
34595	31126	10.79	54.51

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Collodion 4%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30210-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Collodion 4%

Special notes

When selecting the *Collodion 4%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Collodion 4%	6	3	38

Second-stage model

For differentiation of the substance/substance group *Collodion 4%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Collodion 4%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Collodion 4%	13325403	31186	40	1402569
Caelo	Collodion 4%	13325411	31434	60	20131016
Caelo	Collodion 4%	16284201	32962	40	20161107
Caelo	Collodion 4%	190996	34635	40	20190418*
Caelo	Collodion 4%	20003623003	35852	50	20201127
Caelo	Collodion 4%	21003810003	36485	40	20211130

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 270 spectra of 6 reference samples from the substance/substance group *Collodion 4%*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 229 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Collodion 4%*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Collodion 4%	16337201	33514	40
Caelo	Collodion 4%	18070501	34070	40
Caelo	Collodion 4%	20001913	34998	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 112 spectra from 49 *Apo-Ident* customers from 42 batches from the substance/substance group *Collodion 4%*.
- Among them are spectra of independent samples from 38 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caello	Collodion 4%	16284201	1
Caelo	Collodion 4%	11336001	1
Caelo	Collodion 4%	12035903	1
Caelo	Collodion 4%	12035913	2
Caelo	Collodion 4%	12035916	5
Caelo	Collodion 4%	1218A-01286	1
Caelo	Collodion 4%	13325401	1
Caelo	Collodion 4%	13325402	3
Caelo	Collodion 4%	13325403	3
Caelo	Collodion 4%	13325405	3
Caelo	Collodion 4%	13325411	2
Caelo	Collodion 4%	14079101	4
Caelo	Collodion 4%	14079105	4
Caelo	Collodion 4%	15199203	6
Caelo	Collodion 4%	15199205	1
Caelo	Collodion 4%	15199206	3
Caelo	Collodion 4%	15429002	3
Caelo	Collodion 4%	16284201	3
Caelo	Collodion 4%	16337201	10
Caelo	Collodion 4%	18070501	9
Caelo	Collodion 4%	18221605	2
Caelo	Collodion 4%	18221606	2
Caelo	Collodion 4%	19099601	4
Caelo	Collodion 4%	19289202	1
Caelo	Collodion 4%	20001913002	3
Caelo	Collodion 4%	20021305	1
Caelo	Collodion 4%	27041502	1
Caelo	Collodion 4%	5011905	1
Caelo	Collodion 4%	7031404	1
Caelo	Collodion 4%	90266259	1
Caesar & Loretz GmbH'/J...	Collodion 4%	18070501	2
Caesar & Loretz GmbH	Collodion 4%	18070501	1
Caesar & Loretz GmbH	Collodion 4%	20001913001	1
Caesar & Loretz GmbH	Collodion 4%	20001913002	1
Caesar & Loretz GmbH	Collodion 4%	20003623003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz/AHC	Collodion 4%	18221605	2
Caesar & Loretz/Sanacorp	Collodion 4%	15199206	1
Caesar&Loretz GmbH /Anzag	Collodion 4%	14079105	1
Caesar&loretz,Phoenix	Collodion 4%	12035916	1
Defektur	Collodion 4%	12035916	1
Euro OTC	Collodion 4%	14079105	1
Euro OTC	Collodion 4%	15199203	1
Euro OTC	Collodion 4%	16284202	1
Euro OTC	Collodion 4%	16337201	1
Euro OTC	Collodion 4%	16337202	1
Gatt-Koller	Collodion 4%	1803807	2
Gatt-Koller	Collodion 4%	1900117	1
Gatt-Koller	Collodion 4%	1900585	2
Gehe	Collodion 4%	11336004	1
Kögl	Collodion 4%	1700246	1
Kögl	Collodion 4%	1701628	1
Kögl	Collodion 4%	1801945	2
Kögl	Collodion 4%	20171534	1
Kögl	Collodion 4%	384211160717	1

- 297 346 spectra from 1324 *Apo-Ident* customers from a total of 52 945 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Collodion 4%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Collodion 4%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	270	0	68 229
Type B	0	120	0	111 193
Type C	0	112	0	297 346

The substance/substance group *Collodion 4%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.7778 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6876 %)	100.0000 % (> 94.6429 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Collodion 4%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Permethrin 25% solution	138.75	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Collodion 4%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31186	31186	0.00	194.85
31434	34635	4.75	195.00
32962	31186	25.98	181.65
34635	34635	0.00	201.33
35852	34635	6.58	204.70
36485	31186	6.46	198.56

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Cooling cream / Cooling cream with rose oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30889-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Cooling cream / Cooling cream with rose oil; Cooling cream DAB; Cooling ointment DAB 6; Unguentum leniens; Unguentum leniens DAB 6

Special notes

When selecting the *Cooling cream / Cooling cream with rose oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Cooling cream / Cooling cream with rose oil	24	140	2445

Second-stage model

For differentiation of the substance/substance group *Cooling cream / Cooling cream with rose oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Cooling cream / Cooling cream with rose oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Cooling cream DAB	275667	30890	90	20121221
Bombastus	Cooling cream DAB	19001417	34501	40	20190318
Caelo	Cooling cream DAB	12364802	30889	130	20121217
Caelo	Cooling cream DAB	13051601	31052	40	20130221
Caelo	Cooling cream DAB	13315101	31224	70	20130925
Caelo	Cooling cream DAB	153277	31992	60	20150930*
Caelo	Cooling cream DAB	172551	33779	30	20170927*
Caelo	Cooling cream DAB	20000333	34973	40	20200218*
Caelo	Cooling cream DAB	20002954	35230	40	20201027*
Caelo	Cooling cream DAB	20002955	35231	40	20201027*
Caelo	Cooling cream DAB	20003302	35233	40	20201120*
Caelo	Cooling cream DAB	20003303	35234	40	20201120*
Caelo	Cooling cream DAB	20003304	35235	40	20201120*
Fagron	Cooling cream DAB	18K05-T08-061775	34499	40	20190125
Fagron	Cooling cream DAB	19C21-T06-065275	34500	40	20190614
Henry Lamotte	Cooling cream DAB	5321500	30921	80	20120627
Henry Lamotte	Cooling cream DAB	8005213002	34502	40	20190306
Caelo	Cooling ointment...	13317001	31249	40	1405180
Caelo	Cooling ointment...	153029	31922	60	20150911*
Caelo	Cooling ointment...	160897	32293	40	20160405*
Caelo	Cooling ointment...	160896	32294	40	20160405*
Caelo	Cooling ointment...	162223	32506	40	20160727*
Caelo	Cooling ointment...	162224	32507	40	20160727*
Caelo	Cooling ointment...	170413	33180	40	20170221*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 1200 spectra of 24 reference samples from the substance/substance group *Cooling cream / Cooling cream with rose oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 24 different batches.

- 67 299 spectra from a total of 1389 batches from further 227 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 5100 spectra of 145 reference samples from the substance/substance group *Cooling cream / Cooling cream with rose oil*.
- Among them are spectra of independent samples from 140 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
apomix	Cooling cream DAB	15D071221	36241	40
Bombastus	Cooling cream DAB	22000756	36201	40
Caelo	Cooling cream DAB	153281	31993	60
Caelo	Cooling cream DAB	161293	32227	40
Caelo	Cooling cream DAB	161294	32229	40
Caelo	Cooling cream DAB	161295	32230	40
Caelo	Cooling cream DAB	161296	32231	40
Caelo	Cooling cream DAB	161297	32232	40
Caelo	Cooling cream DAB	161341	32233	40
Caelo	Cooling cream DAB	161342	32234	40
Caelo	Cooling cream DAB	161338	32235	40
Caelo	Cooling cream DAB	161718	32408	40
Caelo	Cooling cream DAB	161719	32409	40
Caelo	Cooling cream DAB	161720	32411	40
Caelo	Cooling cream DAB	161725	32413	40
Caelo	Cooling cream DAB	161727	32414	40
Caelo	Cooling cream DAB	161728	32415	40
Caelo	Cooling cream DAB	161729	32416	40
Caelo	Cooling cream DAB	162445	32624	40
Caelo	Cooling cream DAB	162446	32625	40
Caelo	Cooling cream DAB	162447	32626	40
Caelo	Cooling cream DAB	162462	32627	40
Caelo	Cooling cream DAB	162463	32628	40
Caelo	Cooling cream DAB	162464	32629	40
Caelo	Cooling cream DAB	163017	32888	40
Caelo	Cooling cream DAB	163018	32889	40
Caelo	Cooling cream DAB	163019	32890	40
Caelo	Cooling cream DAB	163020	32891	40
Caelo	Cooling cream DAB	163021	32892	40
Caelo	Cooling cream DAB	170004	33112	40
Caelo	Cooling cream DAB	170005	33113	40
Caelo	Cooling cream DAB	163540	33164	40
Caelo	Cooling cream DAB	163544	33165	40
Caelo	Cooling cream DAB	170003	33168	40
Caelo	Cooling cream DAB	170006	33169	40
Caelo	Cooling cream DAB	171251	33340	40
Caelo	Cooling cream DAB	171157	33341	40
Caelo	Cooling cream DAB	171250	33342	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cooling cream DAB	171159	33343	40
Caelo	Cooling cream DAB	171249	33344	40
Caelo	Cooling cream DAB	171160	33345	40
Caelo	Cooling cream DAB	171227	33346	40
Caelo	Cooling cream DAB	171228	33347	40
Caelo	Cooling cream DAB	171156	33348	40
Caelo	Cooling cream DAB	171248	33349	40
Caelo	Cooling cream DAB	170748	33404	40
Caelo	Cooling cream DAB	171567	33563	40
Caelo	Cooling cream DAB	171570	33564	40
Caelo	Cooling cream DAB	171571	33565	40
Caelo	Cooling cream DAB	171572	33566	40
Caelo	Cooling cream DAB	171573	33567	40
Caelo	Cooling cream DAB	171897	33568	40
Caelo	Cooling cream DAB	172536	33771	40
Caelo	Cooling cream DAB	172539	33773	40
Caelo	Cooling cream DAB	172540	33774	40
Caelo	Cooling cream DAB	172541	33775	40
Caelo	Cooling cream DAB	172544	33776	40
Caelo	Cooling cream DAB	172545	33777	40
Caelo	Cooling cream DAB	172546	33778	40
Caelo	Cooling cream DAB	172548	33780	40
Caelo	Cooling cream DAB	172549	33781	40
Caelo	Cooling cream DAB	172550	33782	40
Caelo	Cooling cream DAB	180424	34150	40
Caelo	Cooling cream DAB	182729	34354	40
Caelo	Cooling cream DAB	191501	34786	40
Caelo	Cooling cream DAB	192370	34787	40
Caelo	Cooling cream DAB	20001719	34974	40
Caelo	Cooling cream DAB	20002951	35171	40
Caelo	Cooling cream DAB	20002950	35227	40
Caelo	Cooling cream DAB	20002952	35228	40
Caelo	Cooling cream DAB	20002953	35229	40
Caelo	Cooling cream DAB	20002956	35232	40
Caelo	Cooling cream DAB	20003305	35236	40
Caelo	Cooling cream DAB	21000659	35347	40
Caelo	Cooling cream DAB	21000660	35348	40
Caelo	Cooling cream DAB	21000661	35349	40
Caelo	Cooling cream DAB	21000662	35350	40
Caelo	Cooling cream DAB	21000663	35351	40
Caelo	Cooling cream DAB	21000664	35352	40
Caelo	Cooling cream DAB	21000665	35353	40
Caelo	Cooling cream DAB	21000666	35354	40
Caelo	Cooling cream DAB	21000667	35355	40
Caelo	Cooling cream DAB	21000668	35356	40
Caelo	Cooling cream DAB	21001230	35357	40
Caelo	Cooling cream DAB	21001231	35358	40
Caelo	Cooling cream DAB	21001232	35359	40
Caelo	Cooling cream DAB	21001233	35360	40
Caelo	Cooling cream DAB	21001234	35361	40
Caelo	Cooling cream DAB	21001854	35668	50
Caelo	Cooling cream DAB	21001855	35669	50
Caelo	Cooling cream DAB	21001859	35670	50
Caelo	Cooling cream DAB	21001856	35671	50
Caelo	Cooling cream DAB	21001857	35672	50
Caelo	Cooling cream DAB	21001858	35673	50
Caelo	Cooling cream DAB	21002376	35674	50
Caelo	Cooling cream DAB	21002377	35675	50
Caelo	Cooling cream DAB	21002378	35676	50
Caelo	Cooling cream DAB	21002379	35677	50

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cooling cream DAB	21002380	35678	50
Caelo	Cooling cream DAB	21002381	35679	50
Caelo	Cooling cream DAB	21002382	35680	50
Caelo	Cooling cream DAB	21002383	35681	50
Caelo	Cooling cream DAB	21003382	35917	10
Caelo	Cooling cream DAB	21003385	35918	10
Caelo	Cooling cream DAB	21003386	35919	10
Caelo	Cooling cream DAB	21003387	35920	10
Caelo	Cooling cream DAB	21003381	35953	10
Caelo	Cooling cream DAB	21003383	35954	10
Caelo	Cooling cream DAB	21003388	35955	10
Caelo	Cooling cream DAB	21003389	35956	10
Caelo	Cooling cream DAB	22000024	36109	40
Caelo	Cooling cream DAB	22000025	36110	10
Caelo	Cooling cream DAB	22000026	36111	10
Caelo	Cooling cream DAB	22000027	36112	10
Caelo	Cooling cream DAB	22000028	36113	10
Caelo	Cooling cream DAB	22000029	36114	10
Caelo	Cooling cream DAB	22000030	36115	10
Caelo	Cooling cream DAB	22000031	36116	10
Caelo	Cooling cream DAB	22000033	36117	10
Caelo	Cooling cream DAB	22001366	36434	40
Caelo	Cooling cream DAB	22001367	36435	10
Caelo	Cooling cream DAB	22001368	36436	10
Caelo	Cooling cream DAB	22001369	36437	10
Caelo	Cooling cream DAB	22001370	36438	10
Caelo	Cooling cream DAB	22001372	36439	10
Caelo	Cooling cream DAB	22001373	36440	10
Caelo	Cooling cream DAB	22001374	36441	10
Caelo	Cooling cream DAB	22001376	36442	10
Caelo	Cooling cream DAB	22001378	36443	10
Caelo	Cooling cream DAB	22001377	36444	10
Caelo	Cooling cream DAB	22001379	36445	10
Caelo	Cooling cream DAB	22001381	36446	10
Caelo	Cooling cream DAB	22001382	36447	10
Euro OTC	Cooling cream DAB	2108020-01	35773	50
Caelo	Cooling ointment DAB 6	12306001	31037	40
Caelo	Cooling ointment DAB 6	180218	34142	40
Caelo	Cooling ointment DAB 6	181897	34265	40
Caelo	Cooling ointment DAB 6	19000801	34982	40
Caelo	Cooling ointment DAB 6	20003917	35323	40
Caelo	Cooling ointment DAB 6	21004034	35937	40
Caelo	Cooling cream DAB	161293	32228	40
Caelo	Cooling cream DAB	161719	32410	40
Caelo	Cooling cream DAB	161720	32412	40
Caelo	Cooling cream DAB	170004	33166	40
Caelo	Cooling cream DAB	170005	33167	40

- 106 213 spectra from a total of 2526 batches from further 349 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 11 483 spectra from 1057 *Apo-Ident* customers from 2057 batches from the substance/substance group *Cooling cream / Cooling cream with rose oil.*

- Among them are spectra of independent samples from 2033 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Cooling cream DAB	14328801	1
	Cooling cream DAB	15L03-T06-028365	1
	Cooling ointment DAB 6	17075102	1
	Cooling cream DAB	20001720001	1
/Phoenix	Cooling cream DAB	17189701	1
16302001	Cooling cream DAB	16302001	2
A.H.D.	Cooling cream DAB	13226301	1
aelo/Noweda	Cooling cream DAB	18219301	2
AEP	Cooling cream DAB	18004433	1
AEP	Cooling cream DAB	19074101	1
AEP	Cooling cream DAB	19074401	1
AHC/Lamotte	Cooling cream DAB	8003478009	1
AHD, 08.11.13	Cooling cream DAB	13225801	1
AHD	Cooling cream DAB	1000010941	4
AHD	Cooling cream DAB	16354401	2
AHD	Cooling cream DAB	17189701	1
AHD	Cooling ointment DAB 6	18218301	1
AHD	Cooling cream DAB	18219301	1
AHD	Cooling cream DAB	18272801	1
AHD	Cooling cream DAB	19001402	1
AHD	Cooling cream DAB	19073701	1
AHD	Cooling cream DAB	19073803	1
AHDFiebig	Cooling cream DAB	17075101	1
AHL/Henry	Cooling cream DAB	61360	1
AHL/Henry	Cooling cream DAB	8003478008	1
AHL	Cooling cream DAB	302385	1
AHL	Cooling cream DAB	8003158005	2
AlH	Cooling cream DAB	305131	1
Alliance H.	Cooling cream DAB	15434401	1
Alliance Health Care	Cooling cream DAB	20000331001	1
alliance healthcare	Cooling cream DAB	18006325	1
Alliance Healthcare	Cooling cream DAB	18219041	1
Alliance Healthcare	Cooling cream DAB	19073801	2
Alliance Healthcare	Cooling cream DAB	19237601	2
Alliance Healthcare	Cooling cream DAB	21003385001	1
Alliance Healthcare	Cooling cream DAB	277366	1
Alliance Healthcare	Cooling cream DAB	277368	1
Alliance Healthcare	Cooling cream DAB	277534	1
Alliance Healthcare	Cooling cream DAB	278444	1
Alliance Healthcare	Cooling cream DAB	278523	1
Alliance	Cooling cream DAB	15066601	1
Alliance	Cooling cream DAB	17189701	1
Alliance	Cooling cream DAB	17298401	2
Alliance	Cooling cream DAB	20001259001	1
Allianz Healthcare 05.1...	Cooling cream DAB	14271101	1
Anzag 05.02.13 ek: 9,38EUR	Cooling cream DAB	12312801	1
Anzag 07.05.13 ek: 9,38EUR	Cooling cream DAB	13059701	1
Anzag 21.02.2013	Cooling cream DAB	12291901	1
Anzag 25.10.12	Cooling cream DAB	272484	1
Anzag 27.12.12 ek:9,09	Cooling cream DAB	12312301	1
Anzag 31.10.12 ek:9.12EUR	Cooling cream DAB	12187301	1
Anzag/Lamotte	Cooling cream DAB	5407300	1
Anzag	Cooling cream DAB	13175101	1
Anzag	Cooling ointment DAB 6	17075102	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag	Cooling cream DAB	18003752	2
Anzag	Cooling cream DAB	272347	1
Anzag	Cooling cream DAB	272348	1
ANZAG	Cooling cream DAB	273504	1
Anzag	Cooling cream DAB	274042	1
Anzag	Cooling cream DAB	274911	1
Anzag	Cooling cream DAB	5253700	1
Anzag	Cooling cream DAB	6002062002	1
Anzag	Cooling cream DAB	60082802	1
apomix	Cooling ointment DAB 6	10B200721	1
apomix	Cooling cream DAB	16f13-to8-034247	1
apomix	Cooling cream DAB	299362	1
apomix	Cooling ointment DAB 6	38150420	1
apomix	Cooling cream DAB	3B150420	4
apomix	Cooling cream DAB	9A230621	1
Audor Pharma	Cooling cream DAB	180003171	1
Audor Pharma	Cooling cream DAB	19074201	1
Bambustus/Gehe	Cooling cream DAB	18002085	1
Beiersdorf / E	Cooling cream DAB	290486	1
Berkel AHK	Cooling cream DAB	13226301	3
Berkel AHK	Cooling cream DAB	14268101	1
Bionorica Ethics	Cooling cream DAB	17001966	1
Bionorica SE	Cooling cream DAB	17330801	1
Bionorica/Phoenix	Cooling cream DAB	17115601	1
Bobmastus	Cooling cream DAB	279755	3
Bomastus/Phönix	Cooling cream DAB	304582	1
Bomastus	Cooling cream DAB	19004564	1
Bomastus	Cooling cream DAB	20001622	1
Bomastus-Werke AG	Cooling cream DAB	18005195	1
bomb/alliance	Cooling cream DAB	307924	2
bomb/phönix	Cooling cream DAB	18000328	2
Bomb/Phönix	Cooling cream DAB	19001401	1
bomb	Cooling cream DAB	296316	1
Bomba/AHD	Cooling cream DAB	277269	1
Bomba/AHD	Cooling cream DAB	281031	2
Bomba/AHD	Cooling cream DAB	281920	1
Bomba/AHD	Cooling cream DAB	283115	1
bombast	Cooling cream DAB	17001964	1
Bombastus	Cooling cream DAB		1
Bombastus	Cooling cream DAB	104948	1
Bombastus	Cooling cream DAB	1109212541	1
Bombastus	Cooling cream DAB	12082013A	1
Bombastus	Cooling cream DAB	129845	1
Bombastus	Cooling cream DAB	13012014A	1
Bombastus	Cooling cream DAB	13315101	2
Bombastus	Cooling cream DAB	13315701	1
Bombastus	Cooling cream DAB	14052014B	1
Bombastus	Cooling cream DAB	1418E-02541	1
Bombastus	Cooling cream DAB	151113a	1
Bombastus	Cooling cream DAB	160321(intern)	1
Bombastus	Cooling cream DAB	16095503	1
Bombastus	Cooling cream DAB	16244701	1
Bombastus	Cooling cream DAB	17000220	3
Bombastus	Cooling cream DAB	17000221	2
Bombastus	Cooling cream DAB	17000222	4
Bombastus	Cooling cream DAB	17000223	1
Bombastus	Cooling cream DAB	17000225	1
Bombastus	Cooling cream DAB	17000226	1
Bombastus	Cooling cream DAB	17000227	1
Bombastus	Cooling cream DAB	17000228	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	17000229	4
Bombastus	Cooling cream DAB	17000969	1
Bombastus	Cooling cream DAB	17000970	1
Bombastus	Cooling cream DAB	17000971	2
Bombastus	Cooling cream DAB	17000972	1
Bombastus	Cooling cream DAB	17000973	2
Bombastus	Cooling cream DAB	17000974	2
Bombastus	Cooling cream DAB	17000975	2
Bombastus	Cooling cream DAB	17000976	3
Bombastus	Cooling cream DAB	17000977	3
Bombastus	Cooling cream DAB	17000979	3
Bombastus	Cooling cream DAB	17000980	1
Bombastus	Cooling cream DAB	17000982	2
Bombastus	Cooling cream DAB	17000983	8
Bombastus	Cooling cream DAB	17000984	1
Bombastus	Cooling cream DAB	17000985	5
Bombastus	Cooling cream DAB	17000986	3
Bombastus	Cooling cream DAB	17001957	1
Bombastus	Cooling cream DAB	17001958	2
Bombastus	Cooling cream DAB	17001961	4
Bombastus	Cooling cream DAB	17001962	2
Bombastus	Cooling cream DAB	17001963	1
Bombastus	Cooling cream DAB	17001964	3
Bombastus	Cooling cream DAB	17001965	7
Bombastus	Cooling cream DAB	17001966	2
Bombastus	Cooling cream DAB	17001967	4
Bombastus	Cooling cream DAB	17001968	3
Bombastus	Cooling cream DAB	17001969	4
Bombastus	Cooling cream DAB	17001970	9
Bombastus	Cooling cream DAB	17001971	5
Bombastus	Cooling cream DAB	17075201	1
Bombastus	Cooling ointment DAB 6	17189701	6
Bombastus	Cooling cream DAB	1718A-02541	1
Bombastus	Cooling ointment DAB 6	17254201	2
Bombastus	Cooling ointment DAB 6	17254901	1
Bombastus	Cooling cream DAB	180000339	1
Bombastus	Cooling cream DAB	1800030	1
Bombastus	Cooling cream DAB	18000325	3
Bombastus	Cooling ointment DAB 6	18000327	5
Bombastus	Cooling cream DAB	18000328	1
Bombastus	Cooling cream DAB	180003302x	1
Bombastus	Cooling cream DAB	18000331	1
Bombastus	Cooling cream DAB	18000332	2
Bombastus	Cooling cream DAB	18000333	2
Bombastus	Cooling cream DAB	18000334	1
Bombastus	Cooling cream DAB	18000336	2
Bombastus	Cooling cream DAB	18000337	6
Bombastus	Cooling cream DAB	18000338	2
Bombastus	Cooling ointment DAB 6	18000339	8
Bombastus	Cooling cream DAB	18001074	10
Bombastus	Cooling cream DAB	18001075	2
Bombastus	Cooling cream DAB	18001076	1
Bombastus	Cooling cream DAB	18001078	3
Bombastus	Cooling cream DAB	18001079	3
Bombastus	Cooling cream DAB	18001080	1
Bombastus	Cooling cream DAB	18001081	3
Bombastus	Cooling cream DAB	18001082	5
Bombastus	Cooling cream DAB	18001083	1
Bombastus	Cooling cream DAB	18001084	4
Bombastus	Cooling cream DAB	18001085	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	18001086	1
Bombastus	Cooling cream DAB	18002069	1
Bombastus	Cooling cream DAB	18002083	3
Bombastus	Cooling cream DAB	18002084	3
Bombastus	Cooling cream DAB	18002085	8
Bombastus	Cooling cream DAB	18002086	2
Bombastus	Cooling cream DAB	18002087	2
Bombastus	Cooling cream DAB	18002088	3
Bombastus	Cooling cream DAB	18002090	2
Bombastus	Cooling cream DAB	18002092	1
Bombastus	Cooling cream DAB	18002093	4
Bombastus	Cooling cream DAB	18002094	8
Bombastus	Cooling cream DAB	18002095	6
Bombastus	Cooling cream DAB	18002096	3
Bombastus	Cooling cream DAB	18002239	2
Bombastus	Cooling cream DAB	18002240	3
Bombastus	Cooling cream DAB	18002242	1
Bombastus	Cooling cream DAB	18002243	4
Bombastus	Cooling cream DAB	18002244	7
Bombastus	Cooling cream DAB	18002306	5
Bombastus	Cooling cream DAB	18002307	1
Bombastus	Cooling cream DAB	18002308	4
Bombastus	Cooling cream DAB	18002309	4
Bombastus	Cooling cream DAB	18003168	1
Bombastus	Cooling cream DAB	18003169	2
Bombastus	Cooling cream DAB	18003171	2
Bombastus	Cooling cream DAB	18003172	1
Bombastus	Cooling cream DAB	18003173	3
Bombastus	Cooling cream DAB	18003174	6
Bombastus	Cooling cream DAB	18003175	3
Bombastus	Cooling cream DAB	18003176	6
Bombastus	Cooling cream DAB	18003177	4
Bombastus	Cooling cream DAB	1800339	1
Bombastus	Cooling cream DAB	18003744	1
Bombastus	Cooling cream DAB	18003746	3
Bombastus	Cooling cream DAB	18003749	1
Bombastus	Cooling cream DAB	18003750	1
Bombastus	Cooling cream DAB	18003751	4
Bombastus	Cooling cream DAB	18003752	3
Bombastus	Cooling cream DAB	18003753	8
Bombastus	Cooling cream DAB	18004426	5
Bombastus	Cooling cream DAB	18004427	1
Bombastus	Cooling cream DAB	18004428	1
Bombastus	Cooling cream DAB	18004429	5
Bombastus	Cooling cream DAB	18004430	2
Bombastus	Cooling cream DAB	18004431	1
Bombastus	Cooling cream DAB	18004432	1
Bombastus	Cooling cream DAB	18004433	6
Bombastus	Cooling cream DAB	18004434	8
Bombastus	Cooling ointment DAB 6	18004435	5
Bombastus	Cooling cream DAB	18005193	3
Bombastus	Cooling cream DAB	18005194	6
Bombastus	Cooling cream DAB	18005195	4
Bombastus	Cooling cream DAB	18005196	1
Bombastus	Cooling cream DAB	18005197	4
Bombastus	Cooling cream DAB	18005198	3
Bombastus	Cooling cream DAB	18005199	3
Bombastus	Cooling ointment DAB 6	18005201	4
Bombastus	Cooling cream DAB	18005203	6
Bombastus	Cooling ointment DAB 6	18005204	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	18005205	3
Bombastus	Cooling cream DAB	18005206	3
Bombastus	Cooling cream DAB	18005207	9
Bombastus	Cooling cream DAB	180052087	1
Bombastus	Cooling cream DAB	18005601	2
Bombastus	Cooling cream DAB	18005602	1
Bombastus	Cooling cream DAB	18005603	5
Bombastus	Cooling cream DAB	18005604	6
Bombastus	Cooling cream DAB	18005606	3
Bombastus	Cooling cream DAB	18005608	8
Bombastus	Cooling cream DAB	18005609	5
Bombastus	Cooling cream DAB	18006311	3
Bombastus	Cooling cream DAB	18006312	2
Bombastus	Cooling cream DAB	18006314	2
Bombastus	Cooling cream DAB	18006315	1
Bombastus	Cooling cream DAB	18006317	5
Bombastus	Cooling cream DAB	18006318	2
Bombastus	Cooling cream DAB	18006319	3
Bombastus	Cooling cream DAB	18006320	2
Bombastus	Cooling cream DAB	18006321	8
Bombastus	Cooling cream DAB	18006322	4
Bombastus	Cooling cream DAB	18006323	4
Bombastus	Cooling cream DAB	18006324	2
Bombastus	Cooling cream DAB	18006325	3
Bombastus	Cooling cream DAB	1804429	1
Bombastus	Cooling cream DAB	188000325	1
Bombastus	Cooling cream DAB	190001420	1
Bombastus	Cooling cream DAB	19000322	1
Bombastus	Cooling cream DAB	19000323	4
Bombastus	Cooling cream DAB	19000325	1
Bombastus	Cooling cream DAB	19000326	2
Bombastus	Cooling cream DAB	19000327	1
Bombastus	Cooling cream DAB	19000328	1
Bombastus	Cooling cream DAB	19000329	1
Bombastus	Cooling cream DAB	19000331	6
Bombastus	Cooling cream DAB	19000332	3
Bombastus	Cooling cream DAB	19000333	2
Bombastus	Cooling cream DAB	19000334	3
Bombastus	Cooling cream DAB	19000335	6
Bombastus	Cooling cream DAB	19000336	6
Bombastus	Cooling cream DAB	19000753	1
Bombastus	Cooling cream DAB	19000754	1
Bombastus	Cooling cream DAB	19000756	1
Bombastus	Cooling cream DAB	19000757	1
Bombastus	Cooling cream DAB	19000759	6
Bombastus	Cooling cream DAB	19000760	2
Bombastus	Cooling cream DAB	19000761	1
Bombastus	Cooling cream DAB	19000762	8
Bombastus	Cooling cream DAB	19000763	5
Bombastus	Cooling cream DAB	19001395	1
Bombastus	Cooling cream DAB	19001396	2
Bombastus	Cooling cream DAB	19001397	1
Bombastus	Cooling cream DAB	19001398	2
Bombastus	Cooling ointment DAB 6	19001399	8
Bombastus	Cooling cream DAB	19001401	2
Bombastus	Cooling cream DAB	19001402	1
Bombastus	Cooling cream DAB	19001403	3
Bombastus	Cooling cream DAB	19001405	2
Bombastus	Cooling cream DAB	19001406	3
Bombastus	Cooling cream DAB	19001407	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	19001408	1
Bombastus	Cooling cream DAB	19001409	2
Bombastus	Cooling cream DAB	19001410	1
Bombastus	Cooling cream DAB	19001411	1
Bombastus	Cooling cream DAB	19001412	2
Bombastus	Cooling cream DAB	19001413	1
Bombastus	Cooling cream DAB	19001414	5
Bombastus	Cooling cream DAB	19001415	5
Bombastus	Cooling cream DAB	19001416	10
Bombastus	Cooling cream DAB	19001417	8
Bombastus	Cooling ointment DAB 6	19001418	6
Bombastus	Cooling cream DAB	19001419	4
Bombastus	Cooling cream DAB	19001420	13
Bombastus	Cooling cream DAB	19002509	1
Bombastus	Cooling cream DAB	19002510	1
Bombastus	Cooling cream DAB	19002511	3
Bombastus	Cooling cream DAB	19002512	2
Bombastus	Cooling cream DAB	19002513	1
Bombastus	Cooling cream DAB	19002514	5
Bombastus	Cooling cream DAB	19002515	5
Bombastus	Cooling cream DAB	19002516	1
Bombastus	Cooling cream DAB	19002517	4
Bombastus	Cooling ointment DAB 6	19002518	2
Bombastus	Cooling cream DAB	19002519	8
Bombastus	Cooling cream DAB	19002520	2
Bombastus	Cooling cream DAB	19002521	6
Bombastus	Cooling ointment DAB 6	19002522	4
Bombastus	Cooling cream DAB	19003462	6
Bombastus	Cooling cream DAB	19003463	3
Bombastus	Cooling cream DAB	19003464	1
Bombastus	Cooling cream DAB	19003465	5
Bombastus	Cooling cream DAB	19003466	1
Bombastus	Cooling cream DAB	19003467	1
Bombastus	Cooling cream DAB	19003468	2
Bombastus	Cooling cream DAB	19003469	4
Bombastus	Cooling cream DAB	19003472	1
Bombastus	Cooling cream DAB	19003473	2
Bombastus	Cooling ointment DAB 6	19003475	7
Bombastus	Cooling cream DAB	19003476	4
Bombastus	Cooling cream DAB	19003477	12
Bombastus	Cooling cream DAB	19003478	5
Bombastus	Cooling cream DAB	19003479	9
Bombastus	Cooling ointment DAB 6	19004537	7
Bombastus	Cooling ointment DAB 6	19004538	1
Bombastus	Cooling cream DAB	19004539	2
Bombastus	Cooling cream DAB	19004540	1
Bombastus	Cooling cream DAB	19004544	2
Bombastus	Cooling cream DAB	19004546	3
Bombastus	Cooling cream DAB	19004547	2
Bombastus	Cooling cream DAB	19004548	1
Bombastus	Cooling cream DAB	19004549	1
Bombastus	Cooling cream DAB	19004550	4
Bombastus	Cooling cream DAB	19004551	1
Bombastus	Cooling cream DAB	19004553	5
Bombastus	Cooling cream DAB	19004556	5
Bombastus	Cooling cream DAB	19004557	2
Bombastus	Cooling cream DAB	19004558	1
Bombastus	Cooling cream DAB	19004559	2
Bombastus	Cooling cream DAB	19004560	3
Bombastus	Cooling cream DAB	19004561	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	19004562	4
Bombastus	Cooling cream DAB	19004563	7
Bombastus	Cooling cream DAB	19004564	4
Bombastus	Cooling cream DAB	19004565	6
Bombastus	Cooling cream DAB	19004566	5
Bombastus	Cooling cream DAB	19004567	5
Bombastus	Cooling ointment DAB 6	19004568	5
Bombastus	Cooling cream DAB	19004569	4
Bombastus	Cooling cream DAB	190114559	1
Bombastus	Cooling cream DAB	19032014A	1
Bombastus	Cooling cream DAB	19904547	1
Bombastus	Cooling ointment DAB 6	2/2018	1
Bombastus	Cooling cream DAB	200000222	1
Bombastus	Cooling cream DAB	200000249	1
Bombastus	Cooling cream DAB	20000222	1
Bombastus	Cooling cream DAB	20000223	1
Bombastus	Cooling cream DAB	20000225	3
Bombastus	Cooling cream DAB	20000226	1
Bombastus	Cooling cream DAB	200002268	1
Bombastus	Cooling cream DAB	20000228	2
Bombastus	Cooling cream DAB	20000229	1
Bombastus	Cooling cream DAB	20000230	4
Bombastus	Cooling cream DAB	20000231	1
Bombastus	Cooling ointment DAB 6	20000232	6
Bombastus	Cooling ointment DAB 6	20000233	5
Bombastus	Cooling cream DAB	20000234	1
Bombastus	Cooling cream DAB	20000235	2
Bombastus	Cooling ointment DAB 6	20000236	2
Bombastus	Cooling ointment DAB 6	20000237	5
Bombastus	Cooling cream DAB	20000238	2
Bombastus	Cooling ointment DAB 6	20000239	2
Bombastus	Cooling cream DAB	20000240	3
Bombastus	Cooling cream DAB	20000241	1
Bombastus	Cooling cream DAB	20000242	1
Bombastus	Cooling cream DAB	20000243	9
Bombastus	Cooling cream DAB	20000244	3
Bombastus	Cooling cream DAB	20000245	1
Bombastus	Cooling cream DAB	20000246	6
Bombastus	Cooling cream DAB	20000247	12
Bombastus	Cooling ointment DAB 6	20000248	4
Bombastus	Cooling cream DAB	20000249	4
Bombastus	Cooling cream DAB	20000250	2
Bombastus	Cooling cream DAB	20000356	1
Bombastus	Cooling cream DAB	20000535	3
Bombastus	Cooling ointment DAB 6	20000536	1
Bombastus	Cooling cream DAB	20001608	2
Bombastus	Cooling cream DAB	20001609	1
Bombastus	Cooling cream DAB	20001610	1
Bombastus	Cooling cream DAB	20001611	2
Bombastus	Cooling ointment DAB 6	20001613	7
Bombastus	Cooling ointment DAB 6	20001614	4
Bombastus	Cooling cream DAB	20001615	5
Bombastus	Cooling cream DAB	20001617	2
Bombastus	Cooling cream DAB	20001619	1
Bombastus	Cooling cream DAB	20001620	1
Bombastus	Cooling ointment DAB 6	20001621	9
Bombastus	Cooling cream DAB	20001622	5
Bombastus	Cooling cream DAB	20001624	2
Bombastus	Cooling cream DAB	20001625	3
Bombastus	Cooling cream DAB	20001626	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling ointment DAB 6	20002258	4
Bombastus	Cooling cream DAB	20002260	1
Bombastus	Cooling cream DAB	20002261	1
Bombastus	Cooling cream DAB	20002262	1
Bombastus	Cooling cream DAB	20002263	1
Bombastus	Cooling cream DAB	20002264	1
Bombastus	Cooling ointment DAB 6	20002265	2
Bombastus	Cooling cream DAB	20002266	1
Bombastus	Cooling cream DAB	20002268	6
Bombastus	Cooling cream DAB	20002269	1
Bombastus	Cooling cream DAB	20002270	4
Bombastus	Cooling cream DAB	20002271	4
Bombastus	Cooling cream DAB	20002272	5
Bombastus	Cooling cream DAB	20002273	3
Bombastus	Cooling ointment DAB 6	20003356	1
Bombastus	Cooling cream DAB	20003358	2
Bombastus	Cooling cream DAB	20003361	1
Bombastus	Cooling cream DAB	20003362	2
Bombastus	Cooling cream DAB	20003363	4
Bombastus	Cooling cream DAB	20003364	4
Bombastus	Cooling cream DAB	20003366	5
Bombastus	Cooling cream DAB	20003367	3
Bombastus	Cooling cream DAB	20003369	2
Bombastus	Cooling cream DAB	20003370	6
Bombastus	Cooling cream DAB	20003371	1
Bombastus	Cooling cream DAB	20004640	1
Bombastus	Cooling cream DAB	20004642	4
Bombastus	Cooling ointment DAB 6	20004643	1
Bombastus	Cooling cream DAB	20004644	4
Bombastus	Cooling cream DAB	20004645	1
Bombastus	Cooling cream DAB	20004646	2
Bombastus	Cooling cream DAB	20004647	1
Bombastus	Cooling cream DAB	20004649	1
Bombastus	Cooling cream DAB	20004650	2
Bombastus	Cooling cream DAB	20004651	1
Bombastus	Cooling cream DAB	20004653	3
Bombastus	Cooling ointment DAB 6	20004655	1
Bombastus	Cooling cream DAB	20004656	2
Bombastus	Cooling cream DAB	20004657	2
Bombastus	Cooling ointment DAB 6	20004658	4
Bombastus	Cooling cream DAB	20004659	3
Bombastus	Cooling cream DAB	20004660	1
Bombastus	Cooling ointment DAB 6	20004661	3
Bombastus	Cooling cream DAB	20005659	2
Bombastus	Cooling ointment DAB 6	20005661	3
Bombastus	Cooling ointment DAB 6	20005665	2
Bombastus	Cooling cream DAB	20005668	1
Bombastus	Cooling cream DAB	20005669	1
Bombastus	Cooling cream DAB	20005670	2
Bombastus	Cooling cream DAB	20005671	4
Bombastus	Cooling cream DAB	20005672	4
Bombastus	Cooling cream DAB	20005673	5
Bombastus	Cooling ointment DAB 6	20005674	4
Bombastus	Cooling cream DAB	20005675	1
Bombastus	Cooling cream DAB	2001619	1
Bombastus	Cooling cream DAB	2001621	1
Bombastus	Cooling cream DAB	2005672	1
Bombastus	Cooling ointment DAB 6	21000724	5
Bombastus	Cooling cream DAB	21000727	1
Bombastus	Cooling cream DAB	21000734	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	21000736	3
Bombastus	Cooling cream DAB	21000737	1
Bombastus	Cooling cream DAB	21000738	2
Bombastus	Cooling cream DAB	21000740	1
Bombastus	Cooling cream DAB	21000741	3
Bombastus	Cooling cream DAB	21000742	2
Bombastus	Cooling cream DAB	21001934	1
Bombastus	Cooling cream DAB	21001936	1
Bombastus	Cooling cream DAB	21001942	1
Bombastus	Cooling cream DAB	21001944	1
Bombastus	Cooling cream DAB	21001945	2
Bombastus	Cooling cream DAB	21001947	1
Bombastus	Cooling cream DAB	21001950	3
Bombastus	Cooling cream DAB	21001951	2
Bombastus	Cooling cream DAB	21003213	2
Bombastus	Cooling cream DAB	21003214	1
Bombastus	Cooling ointment DAB 6	21003216	1
Bombastus	Cooling cream DAB	21003218	1
Bombastus	Cooling cream DAB	21003220	1
Bombastus	Cooling cream DAB	21003224	3
Bombastus	Cooling cream DAB	21003227	2
Bombastus	Cooling cream DAB	21003229	4
Bombastus	Cooling cream DAB	21003231	4
Bombastus	Cooling cream DAB	21003232	2
Bombastus	Cooling cream DAB	21003233	1
Bombastus	Cooling cream DAB	21003234	1
Bombastus	Cooling cream DAB	21003235	1
Bombastus	Cooling cream DAB	21004501	1
Bombastus	Cooling cream DAB	21004508	2
Bombastus	Cooling cream DAB	21004509	2
Bombastus	Cooling cream DAB	21005106	1
Bombastus	Cooling cream DAB	2112212541	1
Bombastus	Cooling cream DAB	22487	1
Bombastus	Cooling cream DAB	2405212541	1
Bombastus	Cooling cream DAB	2413Q02541	1
Bombastus	Cooling cream DAB	264601	1
Bombastus	Cooling cream DAB	265548	1
Bombastus	Cooling cream DAB	265549	1
Bombastus	Cooling cream DAB	266717	1
Bombastus	Cooling cream DAB	266941	1
Bombastus	Cooling cream DAB	268073	3
Bombastus	Cooling cream DAB	268194	1
Bombastus	Cooling cream DAB	268981	1
Bombastus	Cooling cream DAB	269088	1
Bombastus	Cooling cream DAB	269092	1
Bombastus	Cooling cream DAB	270309	1
Bombastus	Cooling cream DAB	270310	1
Bombastus	Cooling cream DAB	270315	1
Bombastus	Cooling cream DAB	270381	1
Bombastus	Cooling cream DAB	2713Q2541	1
Bombastus	Cooling cream DAB	271541	1
Bombastus	Cooling cream DAB	271623	1
Bombastus	Cooling cream DAB	271624	1
Bombastus	Cooling cream DAB	271627	1
Bombastus	Cooling cream DAB	271726	1
Bombastus	Cooling cream DAB	272349	1
Bombastus	Cooling cream DAB	272353	1
Bombastus	Cooling cream DAB	272480	1
Bombastus	Cooling cream DAB	272482	1
Bombastus	Cooling cream DAB	272485	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	272564	2
Bombastus	Cooling cream DAB	272571	1
Bombastus	Cooling cream DAB	272573	2
Bombastus	Cooling cream DAB	273443	1
Bombastus	Cooling cream DAB	273444	1
Bombastus	Cooling cream DAB	273499	1
Bombastus	Cooling cream DAB	273501	1
Bombastus	Cooling cream DAB	273503	1
Bombastus	Cooling cream DAB	274042	1
Bombastus	Cooling cream DAB	274044	2
Bombastus	Cooling cream DAB	274077	1
Bombastus	Cooling cream DAB	274079	1
Bombastus	Cooling cream DAB	274080	2
Bombastus	Cooling cream DAB	274083	2
Bombastus	Cooling cream DAB	274783	1
Bombastus	Cooling cream DAB	274785	1
Bombastus	Cooling cream DAB	274791	2
Bombastus	Cooling cream DAB	274914	1
Bombastus	Cooling cream DAB	275663	1
Bombastus	Cooling cream DAB	275664	2
Bombastus	Cooling cream DAB	275665	1
Bombastus	Cooling cream DAB	275667	1
Bombastus	Cooling cream DAB	275668	1
Bombastus	Cooling cream DAB	275669	1
Bombastus	Cooling cream DAB	275670	1
Bombastus	Cooling cream DAB	276281	1
Bombastus	Cooling cream DAB	276282	1
Bombastus	Cooling cream DAB	276284	1
Bombastus	Cooling cream DAB	276288	1
Bombastus	Cooling cream DAB	276418	3
Bombastus	Cooling cream DAB	276419	2
Bombastus	Cooling cream DAB	276422	2
Bombastus	Cooling cream DAB	277275	2
Bombastus	Cooling cream DAB	277363	1
Bombastus	Cooling cream DAB	277367	1
Bombastus	Cooling cream DAB	277369	1
Bombastus	Cooling cream DAB	277371	1
Bombastus	Cooling cream DAB	277525	2
Bombastus	Cooling cream DAB	277526	1
Bombastus	Cooling cream DAB	277530	2
Bombastus	Cooling cream DAB	277533	1
Bombastus	Cooling cream DAB	277534	2
Bombastus	Cooling cream DAB	278335	3
Bombastus	Cooling cream DAB	278337	1
Bombastus	Cooling cream DAB	278341	2
Bombastus	Cooling cream DAB	278342	1
Bombastus	Cooling cream DAB	278436	1
Bombastus	Cooling cream DAB	278437	1
Bombastus	Cooling cream DAB	278438	1
Bombastus	Cooling cream DAB	278439	2
Bombastus	Cooling cream DAB	278440	2
Bombastus	Cooling cream DAB	278441	1
Bombastus	Cooling cream DAB	278442	1
Bombastus	Cooling cream DAB	278525	3
Bombastus	Cooling cream DAB	278674	1
Bombastus	Cooling cream DAB	279676	2
Bombastus	Cooling cream DAB	279680	2
Bombastus	Cooling cream DAB	279681	1
Bombastus	Cooling cream DAB	279682	1
Bombastus	Cooling cream DAB	279751	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	279765	2
Bombastus	Cooling cream DAB	281030	1
Bombastus	Cooling cream DAB	281033	1
Bombastus	Cooling cream DAB	281134	1
Bombastus	Cooling cream DAB	281138	1
Bombastus	Cooling cream DAB	281139	2
Bombastus	Cooling cream DAB	281140	1
Bombastus	Cooling cream DAB	281820	1
Bombastus	Cooling cream DAB	281823	1
Bombastus	Cooling cream DAB	281824	1
Bombastus	Cooling cream DAB	281912	1
Bombastus	Cooling cream DAB	281919	1
Bombastus	Cooling cream DAB	282017	1
Bombastus	Cooling cream DAB	282019	2
Bombastus	Cooling cream DAB	282021	2
Bombastus	Cooling cream DAB	283051	1
Bombastus	Cooling cream DAB	283054	1
Bombastus	Cooling cream DAB	283056	1
Bombastus	Cooling cream DAB	283057	1
Bombastus	Cooling cream DAB	283058	1
Bombastus	Cooling cream DAB	283116	1
Bombastus	Cooling cream DAB	283117	1
Bombastus	Cooling cream DAB	283118	1
Bombastus	Cooling cream DAB	283119	1
Bombastus	Cooling cream DAB	284263	1
Bombastus	Cooling cream DAB	284264	2
Bombastus	Cooling cream DAB	284265	1
Bombastus	Cooling cream DAB	284298	1
Bombastus	Cooling cream DAB	284299	2
Bombastus	Cooling cream DAB	284300	3
Bombastus	Cooling cream DAB	284302	2
Bombastus	Cooling cream DAB	284303	3
Bombastus	Cooling cream DAB	285063	1
Bombastus	Cooling cream DAB	285065	1
Bombastus	Cooling cream DAB	285068	2
Bombastus	Cooling cream DAB	285069	3
Bombastus	Cooling cream DAB	285070	1
Bombastus	Cooling cream DAB	285499	2
Bombastus	Cooling cream DAB	285502	2
Bombastus	Cooling cream DAB	285503	1
Bombastus	Cooling cream DAB	285634	2
Bombastus	Cooling cream DAB	285635	2
Bombastus	Cooling cream DAB	285637	1
Bombastus	Cooling cream DAB	285638	2
Bombastus	Cooling cream DAB	285639	1
Bombastus	Cooling cream DAB	285644	1
Bombastus	Cooling cream DAB	285645	2
Bombastus	Cooling cream DAB	286562	1
Bombastus	Cooling cream DAB	286564	3
Bombastus	Cooling cream DAB	286567	1
Bombastus	Cooling cream DAB	286648	4
Bombastus	Cooling cream DAB	286650	1
Bombastus	Cooling cream DAB	286652	1
Bombastus	Cooling cream DAB	286653	2
Bombastus	Cooling cream DAB	286654	2
Bombastus	Cooling cream DAB	286661	1
Bombastus	Cooling cream DAB	287483	1
Bombastus	Cooling cream DAB	287485	2
Bombastus	Cooling cream DAB	287539	1
Bombastus	Cooling cream DAB	287542	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	287543	1
Bombastus	Cooling cream DAB	287544	2
Bombastus	Cooling cream DAB	288107	1
Bombastus	Cooling cream DAB	288109	2
Bombastus	Cooling cream DAB	288110	1
Bombastus	Cooling cream DAB	288112	2
Bombastus	Cooling cream DAB	288113	1
Bombastus	Cooling cream DAB	288152	3
Bombastus	Cooling cream DAB	288158	1
Bombastus	Cooling cream DAB	288159	1
Bombastus	Cooling cream DAB	289187	1
Bombastus	Cooling cream DAB	289188	1
Bombastus	Cooling cream DAB	289189	1
Bombastus	Cooling cream DAB	289191	3
Bombastus	Cooling cream DAB	289193	1
Bombastus	Cooling cream DAB	289251	1
Bombastus	Cooling cream DAB	289253	1
Bombastus	Cooling cream DAB	289256	1
Bombastus	Cooling cream DAB	289258	1
Bombastus	Cooling cream DAB	289260	4
Bombastus	Cooling cream DAB	289265	1
Bombastus	Cooling cream DAB	290380	5
Bombastus	Cooling cream DAB	290382	1
Bombastus	Cooling cream DAB	290483	2
Bombastus	Cooling ointment DAB 6	290486	1
Bombastus	Cooling cream DAB	290487	1
Bombastus	Cooling cream DAB	290489	1
Bombastus	Cooling cream DAB	290490	1
Bombastus	Cooling cream DAB	29072015A	1
Bombastus	Cooling cream DAB	291552	1
Bombastus	Cooling cream DAB	291555	1
Bombastus	Cooling cream DAB	291618	1
Bombastus	Cooling cream DAB	291619	1
Bombastus	Cooling cream DAB	291620	2
Bombastus	Cooling cream DAB	292101	4
Bombastus	Cooling cream DAB	292103	1
Bombastus	Cooling cream DAB	292106	3
Bombastus	Cooling cream DAB	292107	1
Bombastus	Cooling cream DAB	292199	2
Bombastus	Cooling cream DAB	292202	1
Bombastus	Cooling cream DAB	292280	1
Bombastus	Cooling cream DAB	292281	1
Bombastus	Cooling cream DAB	292930	2
Bombastus	Cooling cream DAB	292931	2
Bombastus	Cooling cream DAB	292932	1
Bombastus	Cooling cream DAB	292934	4
Bombastus	Cooling cream DAB	292936	1
Bombastus	Cooling cream DAB	292997	4
Bombastus	Cooling cream DAB	293616	2
Bombastus	Cooling cream DAB	293620	1
Bombastus	Cooling cream DAB	293621	4
Bombastus	Cooling cream DAB	293622	2
Bombastus	Cooling cream DAB	293747	3
Bombastus	Cooling cream DAB	293749	1
Bombastus	Cooling cream DAB	293750	1
Bombastus	Cooling cream DAB	293751	1
Bombastus	Cooling cream DAB	294121	1
Bombastus	Cooling cream DAB	295019	3
Bombastus	Cooling cream DAB	295021	1
Bombastus	Cooling cream DAB	295022	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	295120	1
Bombastus	Cooling cream DAB	295122	1
Bombastus	Cooling cream DAB	295124	1
Bombastus	Cooling cream DAB	295183	1
Bombastus	Cooling cream DAB	295184	2
Bombastus	Cooling cream DAB	295185	1
Bombastus	Cooling cream DAB	295188	3
Bombastus	Cooling cream DAB	295189	1
Bombastus	Cooling cream DAB	295190	1
Bombastus	Cooling ointment DAB 6	295191	4
Bombastus	Cooling cream DAB	295192	1
Bombastus	Cooling cream DAB	295756	1
Bombastus	Cooling cream DAB	295760	2
Bombastus	Cooling cream DAB	295761	1
Bombastus	Cooling cream DAB	295762	1
Bombastus	Cooling cream DAB	295763	1
Bombastus	Cooling cream DAB	296312	3
Bombastus	Cooling cream DAB	296314	1
Bombastus	Cooling ointment DAB 6	296315	8
Bombastus	Cooling cream DAB	296316	1
Bombastus	Cooling cream DAB	296317	1
Bombastus	Cooling cream DAB	297097	2
Bombastus	Cooling cream DAB	297099	1
Bombastus	Cooling cream DAB	297102	3
Bombastus	Cooling cream DAB	297103	1
Bombastus	Cooling cream DAB	297104	1
Bombastus	Cooling cream DAB	297202972505	1
Bombastus	Cooling cream DAB	297205	2
Bombastus	Cooling cream DAB	297206	1
Bombastus	Cooling cream DAB	297209	1
Bombastus	Cooling cream DAB	297210	2
Bombastus	Cooling cream DAB	297211	2
Bombastus	Cooling cream DAB	297213	1
Bombastus	Cooling cream DAB	297214	2
Bombastus	Cooling cream DAB	298111	1
Bombastus	Cooling cream DAB	298113	3
Bombastus	Cooling cream DAB	298117	4
Bombastus	Cooling cream DAB	298118	1
Bombastus	Cooling cream DAB	298119	2
Bombastus	Cooling cream DAB	298120	1
Bombastus	Cooling cream DAB	298121	3
Bombastus	Cooling ointment DAB 6	298319	1
Bombastus	Cooling cream DAB	298877	3
Bombastus	Cooling cream DAB	298879	2
Bombastus	Cooling cream DAB	298881	3
Bombastus	Cooling cream DAB	298882	1
Bombastus	Cooling cream DAB	299351	2
Bombastus	Cooling cream DAB	299352	1
Bombastus	Cooling cream DAB	299354	1
Bombastus	Cooling cream DAB	299355	1
Bombastus	Cooling cream DAB	299358	1
Bombastus	Cooling cream DAB	299361	1
Bombastus	Cooling cream DAB	299362	1
Bombastus	Cooling cream DAB	299966	1
Bombastus	Cooling cream DAB	299967	1
Bombastus	Cooling cream DAB	299968	1
Bombastus	Cooling cream DAB	299970	1
Bombastus	Cooling cream DAB	299973	2
Bombastus	Cooling cream DAB	299974	1
Bombastus	Cooling cream DAB	299976	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	299978	1
Bombastus	Cooling cream DAB	299980	3
Bombastus	Cooling cream DAB	299981	2
Bombastus	Cooling cream DAB	300715	1
Bombastus	Cooling cream DAB	300717	1
Bombastus	Cooling cream DAB	300720	3
Bombastus	Cooling cream DAB	300721	2
Bombastus	Cooling cream DAB	300722	1
Bombastus	Cooling cream DAB	300724	2
Bombastus	Cooling cream DAB	300727	3
Bombastus	Cooling cream DAB	300728	4
Bombastus	Cooling cream DAB	300729	1
Bombastus	Cooling cream DAB	300730	3
Bombastus	Cooling cream DAB	300796	1
Bombastus	Cooling cream DAB	301668	1
Bombastus	Cooling cream DAB	301669	1
Bombastus	Cooling cream DAB	301670	1
Bombastus	Cooling cream DAB	301672	2
Bombastus	Cooling cream DAB	301673	1
Bombastus	Cooling ointment DAB 6	301674	2
Bombastus	Cooling cream DAB	301675	2
Bombastus	Cooling cream DAB	301676	1
Bombastus	Cooling cream DAB	301692	1
Bombastus	Cooling cream DAB	301693	1
Bombastus	Cooling cream DAB	301694	1
Bombastus	Cooling cream DAB	301697	1
Bombastus	Cooling cream DAB	301699	2
Bombastus	Cooling cream DAB	301700	3
Bombastus	Cooling cream DAB	301701	3
Bombastus	Cooling cream DAB	301702	1
Bombastus	Cooling cream DAB	3022015B	1
Bombastus	Cooling cream DAB	302370	2
Bombastus	Cooling cream DAB	302371	1
Bombastus	Cooling cream DAB	302372	2
Bombastus	Cooling cream DAB	302373	2
Bombastus	Cooling cream DAB	302374	2
Bombastus	Cooling ointment DAB 6	302375	3
Bombastus	Cooling cream DAB	302376	1
Bombastus	Cooling cream DAB	302377	2
Bombastus	Cooling cream DAB	302380	1
Bombastus	Cooling cream DAB	302381	6
Bombastus	Cooling cream DAB	302382	1
Bombastus	Cooling cream DAB	302385	4
Bombastus	Cooling cream DAB	303151	1
Bombastus	Cooling cream DAB	303152	6
Bombastus	Cooling cream DAB	303153	1
Bombastus	Cooling cream DAB	303155	1
Bombastus	Cooling cream DAB	303156	1
Bombastus	Cooling cream DAB	303158	4
Bombastus	Cooling cream DAB	303159	1
Bombastus	Cooling cream DAB	303163	2
Bombastus	Cooling cream DAB	303274	1
Bombastus	Cooling cream DAB	303619	1
Bombastus	Cooling ointment DAB 6	303620	3
Bombastus	Cooling ointment DAB 6	303621	3
Bombastus	Cooling cream DAB	303622	1
Bombastus	Cooling cream DAB	303623	1
Bombastus	Cooling cream DAB	303624	1
Bombastus	Cooling cream DAB	303625	4
Bombastus	Cooling cream DAB	303626	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling cream DAB	304579	1
Bombastus	Cooling cream DAB	304580	1
Bombastus	Cooling cream DAB	304582	4
Bombastus	Cooling cream DAB	304584	3
Bombastus	Cooling ointment DAB 6	304585	2
Bombastus	Cooling cream DAB	304591	1
Bombastus	Cooling cream DAB	304592	1
Bombastus	Cooling cream DAB	304593	4
Bombastus	Cooling cream DAB	305017	2
Bombastus	Cooling cream DAB	305020	1
Bombastus	Cooling cream DAB	305021	3
Bombastus	Cooling cream DAB	305022	2
Bombastus	Cooling cream DAB	305129	3
Bombastus	Cooling cream DAB	305131	3
Bombastus	Cooling cream DAB	305949	2
Bombastus	Cooling cream DAB	305950	2
Bombastus	Cooling cream DAB	305952	2
Bombastus	Cooling ointment DAB 6	305953	7
Bombastus	Cooling cream DAB	305954	1
Bombastus	Cooling cream DAB	305955	1
Bombastus	Cooling cream DAB	305956	2
Bombastus	Cooling cream DAB	305957	3
Bombastus	Cooling cream DAB	305959	2
Bombastus	Cooling cream DAB	305960	2
Bombastus	Cooling cream DAB	305961	2
Bombastus	Cooling cream DAB	306528	1
Bombastus	Cooling cream DAB	306529	3
Bombastus	Cooling cream DAB	306530	2
Bombastus	Cooling cream DAB	306532	2
Bombastus	Cooling cream DAB	3066944	1
Bombastus	Cooling cream DAB	306930	3
Bombastus	Cooling cream DAB	306932	6
Bombastus	Cooling cream DAB	306934	2
Bombastus	Cooling cream DAB	306937	2
Bombastus	Cooling cream DAB	306939	1
Bombastus	Cooling cream DAB	306940	1
Bombastus	Cooling cream DAB	306941	1
Bombastus	Cooling cream DAB	306944	5
Bombastus	Cooling cream DAB	307348	1
Bombastus	Cooling cream DAB	307352	2
Bombastus	Cooling cream DAB	307353	2
Bombastus	Cooling cream DAB	307356	1
Bombastus	Cooling cream DAB	307357	1
Bombastus	Cooling cream DAB	307358	1
Bombastus	Cooling cream DAB	307914	1
Bombastus	Cooling cream DAB	307916	2
Bombastus	Cooling cream DAB	307917	1
Bombastus	Cooling cream DAB	307920	4
Bombastus	Cooling cream DAB	307923	1
Bombastus	Cooling cream DAB	307926	1
Bombastus	Cooling cream DAB	307927	1
Bombastus	Cooling cream DAB	307929	3
Bombastus	Cooling cream DAB	307930	1
Bombastus	Cooling cream DAB	307931	1
Bombastus	Cooling cream DAB	307932	5
Bombastus	Cooling cream DAB	307933	2
Bombastus	Cooling cream DAB	308489	3
Bombastus	Cooling cream DAB	308490	2
Bombastus	Cooling cream DAB	308491	2
Bombastus	Cooling cream DAB	308710	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Cooling ointment DAB 6	308711	1
Bombastus	Cooling cream DAB	308713	1
Bombastus	Cooling cream DAB	308714	1
Bombastus	Cooling cream DAB	308715	1
Bombastus	Cooling cream DAB	308716	1
Bombastus	Cooling cream DAB	308717	6
Bombastus	Cooling cream DAB	308720	1
Bombastus	Cooling ointment DAB 6	308723	1
Bombastus	Cooling cream DAB	308724	5
Bombastus	Cooling cream DAB	308725	3
Bombastus	Cooling cream DAB	3092014A	1
Bombastus	Cooling cream DAB	309365	1
Bombastus	Cooling cream DAB	309366	2
Bombastus	Cooling cream DAB	309368	10
Bombastus	Cooling cream DAB	309369	3
Bombastus	Cooling cream DAB	309370	2
Bombastus	Cooling cream DAB	309371	8
Bombastus	Cooling cream DAB	309995	1
Bombastus	Cooling cream DAB	309997	1
Bombastus	Cooling cream DAB	309999	6
Bombastus	Cooling cream DAB	310000	4
Bombastus	Cooling cream DAB	3100004	1
Bombastus	Cooling cream DAB	310002	2
Bombastus	Cooling cream DAB	310003	3
Bombastus	Cooling cream DAB	310004	1
Bombastus	Cooling cream DAB	310005	6
Bombastus	Cooling cream DAB	310006	4
Bombastus	Cooling cream DAB	310972	1
Bombastus	Cooling cream DAB	310973	1
Bombastus	Cooling cream DAB	310974	3
Bombastus	Cooling cream DAB	310975	1
Bombastus	Cooling ointment DAB 6	310976	2
Bombastus	Cooling cream DAB	310977	2
Bombastus	Cooling cream DAB	310979	2
Bombastus	Cooling cream DAB	310980	2
Bombastus	Cooling cream DAB	310982	7
Bombastus	Cooling cream DAB	310983	5
Bombastus	Cooling cream DAB	310984	1
Bombastus	Cooling cream DAB	310986	5
Bombastus	Cooling cream DAB	310987	4
Bombastus	Cooling cream DAB	310988	4
Bombastus	Cooling cream DAB	310989	4
Bombastus	Cooling cream DAB	4013Q2541	1
Bombastus	Cooling cream DAB	4032015B	1
Bombastus	Cooling cream DAB	4617M-02541	1
Bombastus	Cooling cream DAB	513A-02541	1
Bombastus	Cooling cream DAB	60082801	6
Bombastus	Cooling cream DAB	614U2541	1
Bombastus	Cooling cream DAB	618E-02541	1
Bombastus	Cooling cream DAB	6861938	1
Bombastus	Cooling cream DAB	6861944	2
Bombastus	Cooling cream DAB	7022014B	1
Bombastus	Cooling cream DAB	718A-02541	1
Bombastus	Cooling cream DAB	77309	1
Bombastus	Cooling cream DAB	8002875004	1
Bombastus	Cooling cream DAB	91709	1
Bombastus	Cooling cream DAB	92086	1
Bombastuts/Gehe	Cooling cream DAB	307350	1
Bombastuts/Gehe	Cooling cream DAB	307919	1
Bombastuts/Gehe	Cooling cream DAB	308712	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastuts/Gehe	Cooling cream DAB	60082802	1
Bombastuts/Noweda	Cooling cream DAB	300726	1
Bombasus	Cooling ointment DAB 6	21001934	1
Bombstus	Cooling ointment DAB 6	17000977	1
Bombstus	Cooling cream DAB	308711	1
Bumbastus/Sanacorp	Cooling cream DAB	18006325	1
Bumbastus	Cooling cream DAB	297213	1
Cae/Phönix	Cooling cream DAB	15228601	1
cael	Cooling cream DAB	13004201	1
Caeleo/ Krieger	Cooling cream DAB	18272901	1
Caeleo/ Krieger	Cooling cream DAB	19000582001	1
Caelo	Cooling ointment DAB 6		12
Caelo	Cooling cream DAB	1000010941	1
Caelo	Cooling cream DAB	1000601	1
Caelo	Cooling cream DAB	10071705	1
Caelo	Cooling cream DAB	10081209	1
Caelo	Cooling cream DAB	10081210	1
Caelo	Cooling cream DAB	10091306	1
Caelo	Cooling cream DAB	1040917/17075201	1
Caelo	Cooling cream DAB	1041702	1
Caelo	Cooling cream DAB	1071407	1
Caelo	Cooling cream DAB	1097065	3
Caelo	Cooling cream DAB	1097071	2
Caelo	Cooling ointment DAB 6	1097214	1
Caelo	Cooling cream DAB	10974301	1
Caelo	Cooling cream DAB	1113Q-02541	1
Caelo	Cooling cream DAB	11268501	1
Caelo	Cooling cream DAB	11269101	1
Caelo	Cooling cream DAB	11322901	1
Caelo	Cooling cream DAB	11323101	2
Caelo	Cooling cream DAB	11323501	1
Caelo	Cooling cream DAB	118042701	1
Caelo	Cooling cream DAB	12001901	3
Caelo	Cooling cream DAB	12002401	1
Caelo	Cooling cream DAB	12002501	3
Caelo	Cooling cream DAB	12011402	1
Caelo	Cooling cream DAB	12045901	1
Caelo	Cooling cream DAB	12046101	1
Caelo	Cooling cream DAB	12046401	1
Caelo	Cooling cream DAB	12051401	1
Caelo	Cooling cream DAB	12051809	1
Caelo	Cooling cream DAB	12052001	1
Caelo	Cooling cream DAB	120601202	1
Caelo	Cooling cream DAB	12089201	1
Caelo	Cooling cream DAB	12089301	2
Caelo	Cooling cream DAB	12089402	2
Caelo	Cooling cream DAB	12089601	5
Caelo	Cooling cream DAB	12089701	1
Caelo	Cooling cream DAB	12089901	1
Caelo	Cooling cream DAB	12090201	2
Caelo	Cooling cream DAB	12090401	3
Caelo	Cooling cream DAB	12090501	2
Caelo	Cooling cream DAB	12090601	1
Caelo	Cooling cream DAB	1213M-02541	2
Caelo	Cooling cream DAB	12174301	2
Caelo	Cooling cream DAB	12174401	4
Caelo	Cooling cream DAB	12174501	1
Caelo	Cooling cream DAB	12174601	2
Caelo	Cooling cream DAB	12178801	2
Caelo	Cooling cream DAB	12178901	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling cream DAB	12178902	3
Caelo	Cooling ointment DAB 6	12179001	4
Caelo	Cooling ointment DAB 6	12182701	7
Caelo	Cooling cream DAB	12182801	3
Caelo	Cooling ointment DAB 6	12187201	3
Caelo	Cooling cream DAB	12187301	4
Caelo	Cooling cream DAB	1218Q-02541	1
Caelo	Cooling cream DAB	12253001	1
Caelo	Cooling cream DAB	12253101	4
Caelo	Cooling cream DAB	12253201	2
Caelo	Cooling cream DAB	12253301	2
Caelo	Cooling cream DAB	12253401	2
Caelo	Cooling cream DAB	12290102	1
Caelo	Cooling cream DAB	12291301	1
Caelo	Cooling cream DAB	12291901	2
Caelo	Cooling cream DAB	12292102	12
Caelo	Cooling cream DAB	12292201	7
Caelo	Cooling cream DAB	12292301	3
Caelo	Cooling cream DAB	12292401	4
Caelo	Cooling cream DAB	12312001	1
Caelo	Cooling cream DAB	12312101	2
Caelo	Cooling cream DAB	12312102	5
Caelo	Cooling cream DAB	12312201	4
Caelo	Cooling cream DAB	12312301	1
Caelo	Cooling ointment DAB 6	12312401	10
Caelo	Cooling ointment DAB 6	12312501	4
Caelo	Cooling cream DAB	12312601	3
Caelo	Cooling ointment DAB 6	12312701	4
Caelo	Cooling cream DAB	12312801	3
Caelo	Cooling cream DAB	1234	1
Caelo	Cooling cream DAB	123456	1
Caelo	Cooling cream DAB	12364601	13
Caelo	Cooling cream DAB	12364701	2
Caelo	Cooling ointment DAB 6	12364801	4
Caelo	Cooling ointment DAB 6	12364802	2
Caelo	Cooling cream DAB	123test	2
Caelo	Cooling cream DAB	123Test	1
Caelo	Cooling cream DAB	1256856	1
Caelo	Cooling cream DAB	1287201	1
Caelo	Cooling cream DAB	1289501	1
Caelo	Cooling cream DAB	1290301	1
Caelo	Cooling cream DAB	1291116	1
Caelo	Cooling cream DAB	13004101	5
Caelo	Cooling cream DAB	13004201	4
Caelo	Cooling cream DAB	13004301	3
Caelo	Cooling ointment DAB 6	13004401	4
Caelo	Cooling cream DAB	13004402	4
Caelo	Cooling cream DAB	13004501	7
Caelo	Cooling cream DAB	13004601	4
Caelo	Cooling ointment DAB 6	13047201	2
Caelo	Cooling ointment DAB 6	13051401	8
Caelo	Cooling ointment DAB 6	13051501	10
Caelo	Cooling ointment DAB 6	13051601	11
Caelo	Cooling cream DAB	13051602	3
Caelo	Cooling cream DAB	13059501	2
Caelo	Cooling cream DAB	13059601	7
Caelo	Cooling cream DAB	13059701	6
Caelo	Cooling ointment DAB 6	13059901	12
Caelo	Cooling cream DAB	13059902	4
Caelo	Cooling cream DAB	13068101	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling ointment DAB 6	13120901	22
Caelo	Cooling cream DAB	1312091	1
Caelo	Cooling ointment DAB 6	13121001	9
Caelo	Cooling cream DAB	13121002	2
Caelo	Cooling ointment DAB 6	13121201	10
Caelo	Cooling cream DAB	13121301	5
Caelo	Cooling ointment DAB 6	13121401	9
Caelo	Cooling cream DAB	13121501	1
Caelo	Cooling cream DAB	13121503	1
Caelo	Cooling cream DAB	13121601	1
Caelo	Cooling ointment DAB 6	13121701	8
Caelo	Cooling ointment DAB 6	13121717	1
Caelo	Cooling cream DAB	1312601	1
Caelo	Cooling cream DAB	1315601	1
Caelo	Cooling ointment DAB 6	13174901	2
Caelo	Cooling cream DAB	13175001	2
Caelo	Cooling ointment DAB 6	13175101	8
Caelo	Cooling cream DAB	13175201	7
Caelo	Cooling ointment DAB 6	13175301	28
Caelo	Cooling cream DAB	13191301	2
Caelo	Cooling cream DAB	13191401	10
Caelo	Cooling ointment DAB 6	13191501	5
Caelo	Cooling cream DAB	13191601	6
Caelo	Cooling ointment DAB 6	13191701	9
Caelo	Cooling cream DAB	13191801	8
Caelo	Cooling ointment DAB 6	13191901	5
Caelo	Cooling cream DAB	13192001	8
Caelo	Cooling ointment DAB 6	13192101	13
Caelo	Cooling cream DAB	13192201	1
Caelo	Cooling cream DAB	13214010	1
Caelo	Cooling cream DAB	13225701	2
Caelo	Cooling cream DAB	13225801	1
Caelo	Cooling cream DAB	1322601	1
Caelo	Cooling cream DAB	13226301	5
Caelo	Cooling ointment DAB 6	13226302	7
Caelo	Cooling ointment DAB 6	13226501	9
Caelo	Cooling ointment DAB 6	13226601	28
Caelo	Cooling cream DAB	13226602	1
Caelo	Cooling cream DAB	13226701	4
Caelo	Cooling ointment DAB 6	13226801	21
Caelo	Cooling cream DAB	13226901	8
Caelo	Cooling cream DAB	13227001	3
Caelo	Cooling cream DAB	13227101	6
Caelo	Cooling cream DAB	13227201	7
Caelo	Cooling cream DAB	13227301	4
Caelo	Cooling cream DAB	13227401	10
Caelo	Cooling ointment DAB 6	1328702	1
Caelo	Cooling cream DAB	13315101	26
Caelo	Cooling cream DAB	13315102	3
Caelo	Cooling cream DAB	13315201	9
Caelo	Cooling cream DAB	13315401	1
Caelo	Cooling cream DAB	13315601	6
Caelo	Cooling cream DAB	13315701	3
Caelo	Cooling cream DAB	13315801	4
Caelo	Cooling cream DAB	13315901	1
Caelo	Cooling cream DAB	13316001	1
Caelo	Cooling cream DAB	133227401	1
Caelo	Cooling cream DAB	13327101	1
Caelo	Cooling cream DAB	13401801	29
Caelo	Cooling cream DAB	13401901	13

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling cream DAB	13402001	5
Caelo	Cooling cream DAB	13402101	7
Caelo	Cooling cream DAB	13402201	16
Caelo	Cooling cream DAB	14000101	2
Caelo	Cooling cream DAB	14000201	7
Caelo	Cooling cream DAB	14000301	12
Caelo	Cooling cream DAB	14000401	2
Caelo	Cooling cream DAB	14000501	5
Caelo	Cooling cream DAB	14055301	7
Caelo	Cooling cream DAB	14055401	2
Caelo	Cooling cream DAB	14055501	3
Caelo	Cooling cream DAB	14055601	11
Caelo	Cooling cream DAB	14055702	11
Caelo	Cooling cream DAB	14055703	2
Caelo	Cooling cream DAB	14071204	1
Caelo	Cooling ointment DAB 6	14085901	17
Caelo	Cooling cream DAB	14085902	4
Caelo	Cooling cream DAB	14086001	5
Caelo	Cooling cream DAB	1408601	1
Caelo	Cooling cream DAB	14086101	3
Caelo	Cooling cream DAB	14086201	5
Caelo	Cooling ointment DAB 6	14086301	12
Caelo	Cooling cream DAB	1408631	1
Caelo	Cooling cream DAB	14086401	3
Caelo	Cooling cream DAB	14086501	1
Caelo	Cooling cream DAB	14086601	4
Caelo	Cooling cream DAB	14086801	8
Caelo	Cooling cream DAB	14097214	1
Caelo	Cooling cream DAB	14101401	1
Caelo	Cooling cream DAB	14101713	1
Caelo	Cooling ointment DAB 6	14118002	1
Caelo	Cooling cream DAB	1412801	1
Caelo	Cooling cream DAB	14129401	14
Caelo	Cooling cream DAB	14129402	2
Caelo	Cooling cream DAB	14129501	4
Caelo	Cooling cream DAB	14129701	1
Caelo	Cooling ointment DAB 6	14129801	23
Caelo	Cooling cream DAB	14132001	1
Caelo	Cooling cream DAB	14132201	6
Caelo	Cooling cream DAB	14132301	9
Caelo	Cooling cream DAB	14132401	12
Caelo	Cooling cream DAB	14143101	1
Caelo	Cooling ointment DAB 6	14145501	22
Caelo	Cooling cream DAB	14145602	2
Caelo	Cooling cream DAB	14145701	5
Caelo	Cooling cream DAB	14145801	2
Caelo	Cooling cream DAB	14145901	10
Caelo	Cooling cream DAB	1418401	2
Caelo	Cooling cream DAB	14184301	1
Caelo	Cooling ointment DAB 6	14184401	10
Caelo	Cooling cream DAB	14184402	3
Caelo	Cooling cream DAB	14184501	19
Caelo	Cooling ointment DAB 6	14184601	23
Caelo	Cooling cream DAB	14184701	7
Caelo	Cooling ointment DAB 6	14184801	6
Caelo	Cooling cream DAB	14184901	6
Caelo	Cooling cream DAB	14185001	9
Caelo	Cooling cream DAB	14185101	5
Caelo	Cooling cream DAB	14186601	1
Caelo	Cooling cream DAB	14200401	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling cream DAB	14258301	1
Caelo	Cooling cream DAB	14268002	1
Caelo	Cooling ointment DAB 6	14268101	15
Caelo	Cooling cream DAB	142681012	1
Caelo	Cooling cream DAB	14268102	1
Caelo	Cooling cream DAB	14268201	4
Caelo	Cooling cream DAB	14268301	18
Caelo	Cooling cream DAB	14271101	4
Caelo	Cooling ointment DAB 6	14271201	4
Caelo	Cooling cream DAB	14271301	4
Caelo	Cooling ointment DAB 6	14271401	9
Caelo	Cooling cream DAB	14271501	3
Caelo	Cooling cream DAB	142728301	1
Caelo	Cooling cream DAB	1427801	1
Caelo	Cooling cream DAB	14278201	9
Caelo	Cooling ointment DAB 6	14278301	22
Caelo	Cooling ointment DAB 6	14278401	6
Caelo	Cooling cream DAB	14278502	7
Caelo	Cooling cream DAB	14278601	4
Caelo	Cooling ointment DAB 6	14288601	10
Caelo	Cooling cream DAB	14288701	5
Caelo	Cooling cream DAB	14328701	3
Caelo	Cooling ointment DAB 6	14328702	11
Caelo	Cooling ointment DAB 6	14328801	30
Caelo	Cooling cream DAB	14328901	3
Caelo	Cooling ointment DAB 6	14329001	5
Caelo	Cooling ointment DAB 6	14329201	5
Caelo	Cooling ointment DAB 6	14329301	13
Caelo	Cooling ointment DAB 6	14329401	12
Caelo	Cooling cream DAB	14329501	5
Caelo	Cooling ointment DAB 6	14329601	13
Caelo	Cooling cream DAB	1468201	1
Caelo	Cooling cream DAB	1484701	1
Caelo	Cooling cream DAB	15000501	1
Caelo	Cooling cream DAB	15008501	1
Caelo	Cooling cream DAB	15011304	1
Caelo	Cooling ointment DAB 6	15014701	1
Caelo	Cooling cream DAB	15017601	1
Caelo	Cooling cream DAB	1502801	1
Caelo	Cooling cream DAB	15048701	1
Caelo	Cooling ointment DAB 6	15049201	23
Caelo	Cooling ointment DAB 6	15049202	6
Caelo	Cooling ointment DAB 6	15052801	21
Caelo	Cooling cream DAB	15053001	3
Caelo	Cooling cream DAB	15058801	5
Caelo	Cooling cream DAB	15058901	3
Caelo	Cooling ointment DAB 6	15059001	6
Caelo	Cooling ointment DAB 6	15059201	36
Caelo	Cooling cream DAB	1506601	1
Caelo	Cooling cream DAB	15066501	2
Caelo	Cooling ointment DAB 6	15066601	23
Caelo	Cooling cream DAB	15066701	5
Caelo	Cooling cream DAB	15066801	8
Caelo	Cooling cream DAB	15066801test	1
Caelo	Cooling cream DAB	15066901	4
Caelo	Cooling cream DAB	15069201	1
Caelo	Cooling cream DAB	1509201	1
Caelo	Cooling cream DAB	1513101	2
Caelo	Cooling cream DAB	1513201	2
Caelo	Cooling ointment DAB 6	15134404	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling cream DAB	15152801	5
Caelo	Cooling cream DAB	15152901	4
Caelo	Cooling ointment DAB 6	15153001	6
Caelo	Cooling cream DAB	15153101	4
Caelo	Cooling ointment DAB 6	15153201	12
Caelo	Cooling ointment DAB 6	15153301	7
Caelo	Cooling cream DAB	15153401	1
Caelo	Cooling ointment DAB 6	15153501	25
Caelo	Cooling cream DAB	15153701	9
Caelo	Cooling ointment DAB 6	15228401	8
Caelo	Cooling ointment DAB 6	15228501	32
Caelo	Cooling ointment DAB 6	15228502	9
Caelo	Cooling ointment DAB 6	15228601	57
Caelo	Cooling cream DAB	15228701	10
Caelo	Cooling cream DAB	15228801	18
Caelo	Cooling ointment DAB 6	152327901	1
Caelo	Cooling cream DAB	1523609	1
Caelo	Cooling cream DAB	15236701	1
Caelo	Cooling ointment DAB 6	15236801	7
Caelo	Cooling ointment DAB 6	15236901	27
Caelo	Cooling cream DAB	15236902	7
Caelo	Cooling ointment DAB 6	15237101	18
Caelo	Cooling ointment DAB 6	15302901	1
Caelo	Cooling ointment DAB 6	15327701	11
Caelo	Cooling ointment DAB 6	15327801	8
Caelo	Cooling ointment DAB 6	15327901	10
Caelo	Cooling ointment DAB 6	15328001	62
Caelo	Cooling cream DAB	15328101	3
Caelo	Cooling cream DAB	15338601	2
Caelo	Cooling cream DAB	1534501	1
Caelo	Cooling ointment DAB 6	15413501	6
Caelo	Cooling ointment DAB 6	15413601	8
Caelo	Cooling cream DAB	15413701	7
Caelo	Cooling ointment DAB 6	15413901	8
Caelo	Cooling cream DAB	15417201	8
Caelo	Cooling ointment DAB 6	15417301	6
Caelo	Cooling ointment DAB 6	15417401	8
Caelo	Cooling ointment DAB 6	15417501	16
Caelo	Cooling cream DAB	15417601	9
Caelo	Cooling ointment DAB 6	15434401	27
Caelo	Cooling cream DAB	15434401/20160309/1	1
Caelo	Cooling cream DAB	15434401/20160309/2	1
Caelo	Cooling cream DAB	15434401/201603093	1
Caelo	Cooling ointment DAB 6	15434402	25
Caelo	Cooling ointment DAB 6	15434501	32
Caelo	Cooling ointment DAB 6	15434502	22
Caelo	Cooling ointment DAB 6	15434503	6
Caelo	Cooling cream DAB	15434701	1
Caelo	Cooling cream DAB	1543501	1
Caelo	Cooling cream DAB	1543502	1
Caelo	Cooling ointment DAB 6	15435101	22
Caelo	Cooling ointment DAB 6	15435102	32
Caelo	Cooling cream DAB	1543512	1
Caelo	Cooling ointment DAB 6	1547501	2
Caelo	Cooling cream DAB	157301	1
Caelo	Cooling cream DAB	16/268/L	1
Caelo	Cooling ointment DAB 6	16000201	12
Caelo	Cooling cream DAB	16000401	2
Caelo	Cooling ointment DAB 6	16000501	11
Caelo	Cooling cream DAB	16000601	14

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling cream DAB	16000801	7
Caelo	Cooling cream DAB	16031707	1
Caelo	Cooling cream DAB	1605801	1
Caelo	Cooling cream DAB	1605901	1
Caelo	Cooling cream DAB	16071505	1
Caelo	Cooling cream DAB	16071809	1
Caelo	Cooling cream DAB	16081303	1
Caelo	Cooling cream DAB	16081812	1
Caelo	Cooling cream DAB	16081813	1
Caelo	Cooling cream DAB	160850801	1
Caelo	Cooling ointment DAB 6	16085801	18
Caelo	Cooling cream DAB	160859	1
Caelo	Cooling ointment DAB 6	16085901	23
Caelo	Cooling cream DAB	16085902	10
Caelo	Cooling ointment DAB 6	16086001	9
Caelo	Cooling cream DAB	16086001-20160615Ma1	1
Caelo	Cooling ointment DAB 6	1608601	1
Caelo	Cooling ointment DAB 6	16086101	19
Caelo	Cooling ointment DAB 6	16089702	1
Caelo	Cooling cream DAB	16101201	1
Caelo	Cooling cream DAB	16114625	1
Caelo	Cooling ointment DAB 6	16123501	1
Caelo	Cooling ointment DAB 6	16129401	12
Caelo	Cooling ointment DAB 6	16129501	16
Caelo	Cooling cream DAB	16129502	2
Caelo	Cooling cream DAB	16129601	4
Caelo	Cooling ointment DAB 6	16129701	6
Caelo	Cooling cream DAB	161333801	1
Caelo	Cooling cream DAB	16133801	5
Caelo	Cooling ointment DAB 6	16133901	5
Caelo	Cooling ointment DAB 6	16134001	9
Caelo	Cooling ointment DAB 6	16134101	10
Caelo	Cooling ointment DAB 6	16134201	48
Caelo	Cooling cream DAB	16134202	1
Caelo	Cooling ointment DAB 6	16171901	12
Caelo	Cooling ointment DAB 6	16172001	16
Caelo	Cooling ointment DAB 6	16172501	3
Caelo	Cooling ointment DAB 6	1617260	1
Caelo	Cooling ointment DAB 6	16172601	67
Caelo	Cooling ointment DAB 6	16172701	10
Caelo	Cooling ointment DAB 6	16172801	17
Caelo	Cooling ointment DAB 6	16172901	30
Caelo	Cooling ointment DAB 6	16172902	14
Caelo	Cooling cream DAB	16173001	1
Caelo	Cooling ointment DAB 6	16222401	1
Caelo	Cooling ointment DAB 6	16222402	1
Caelo	Cooling ointment DAB 6	16244601	16
Caelo	Cooling cream DAB	162446901	1
Caelo	Cooling ointment DAB 6	16244701	89
Caelo	Cooling ointment DAB 6	16245301	1
Caelo	Cooling ointment DAB 6	16246201	18
Caelo	Cooling ointment DAB 6	16246301	23
Caelo	Cooling cream DAB	1629401	1
Caelo	Cooling ointment DAB 6	16301702	6
Caelo	Cooling ointment DAB 6	16301801	43
Caelo	Cooling cream DAB	16301901	9
Caelo	Cooling cream DAB	163020001	1
Caelo	Cooling ointment DAB 6	16302001	7
Caelo	Cooling ointment DAB 6	16302101	13
Caelo	Cooling ointment DAB 6	1630210101097214	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling ointment DAB 6	16311604	1
Caelo	Cooling cream DAB	163202001	1
Caelo	Cooling ointment DAB 6	1632101	1
Caelo	Cooling ointment DAB 6	16322901	7
Caelo	Cooling cream DAB	163230001	1
Caelo	Cooling cream DAB	16323001	10
Caelo	Cooling ointment DAB 6	16323101	5
Caelo	Cooling ointment DAB 6	16354401	38
Caelo	Cooling ointment DAB 6	16354402	11
Caelo	Cooling cream DAB	16434201	1
Caelo	Cooling cream DAB	1686101	1
Caelo	Cooling cream DAB	170000301	1
Caelo	Cooling cream DAB	17000218	1
Caelo	Cooling cream DAB	17000226	3
Caelo	Cooling ointment DAB 6	17000301	11
Caelo	Cooling ointment DAB 6	17000401	14
Caelo	Cooling ointment DAB 6	17000501	9
Caelo	Cooling ointment DAB 6	17000601	62
Caelo	Cooling cream DAB	17000977	1
Caelo	Cooling cream DAB	17000978	1
Caelo	Cooling cream DAB	17000983	1
Caelo	Cooling cream DAB	17000985	1
Caelo	Cooling cream DAB	17000986	1
Caelo	Cooling cream DAB	17001963	1
Caelo	Cooling cream DAB	17001967	1
Caelo	Cooling cream DAB	1700601	2
Caelo	Cooling cream DAB	170207UL/16323101	1
Caelo	Cooling ointment DAB 6	17033001	76
Caelo	Cooling cream DAB	17033011	2
Caelo	Cooling ointment DAB 6	17035301	22
Caelo	Cooling ointment DAB 6	17035401	14
Caelo	Cooling ointment DAB 6	17035501	13
Caelo	Cooling ointment DAB 6	17038501	15
Caelo	Cooling ointment DAB 6	17041301	4
Caelo	Cooling cream DAB	1705101	1
Caelo	Cooling ointment DAB 6	170522UL/16323101	1
Caelo	Cooling ointment DAB 6	1705401	1
Caelo	Cooling cream DAB	170614182	1
Caelo	Cooling cream DAB	17061702	1
Caelo	Cooling cream DAB	170728UL/17081801	1
Caelo	Cooling ointment DAB 6	17074801	13
Caelo	Cooling ointment DAB 6	17075001	17
Caelo	Cooling ointment DAB 6	17075002	3
Caelo	Cooling cream DAB	170750101	1
Caelo	Cooling ointment DAB 6	17075101	31
Caelo	Cooling ointment DAB 6	17075102	10
Caelo	Cooling cream DAB	17075105	1
Caelo	Cooling ointment DAB 6	17075201	64
Caelo	Cooling ointment DAB 6	17075301	26
Caelo	Cooling ointment DAB 6	17075401	13
Caelo	Cooling cream DAB	170754015325	1
Caelo	Cooling ointment DAB 6	17081801	21
Caelo	Cooling cream DAB	17081801-20170818Ma8	1
Caelo	Cooling cream DAB	170926UL/17122701	1
Caelo	Cooling cream DAB	170975201	1
Caelo	Cooling ointment DAB 6	17115601	39
Caelo	Cooling ointment DAB 6	17115701	13
Caelo	Cooling ointment DAB 6	17115901	7
Caelo	Cooling ointment DAB 6	17116001	16
Caelo	Cooling ointment DAB 6	17117401	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling ointment DAB 6	17117402	5
Caelo	Cooling cream DAB	17121301	1
Caelo	Cooling ointment DAB 6	17122701	22
Caelo	Cooling ointment DAB 6	17122801	19
Caelo	Cooling cream DAB	171229UL/17122801	1
Caelo	Cooling ointment DAB 6	17124801	5
Caelo	Cooling ointment DAB 6	17124802	4
Caelo	Cooling ointment DAB 6	17124901	23
Caelo	Cooling cream DAB	17124911	1
Caelo	Cooling ointment DAB 6	17125002	17
Caelo	Cooling ointment DAB 6	17125101	22
Caelo	Cooling ointment DAB 6	1712901	1
Caelo	Cooling cream DAB	171298501	1
Caelo	Cooling ointment DAB 6	1715002	1
Caelo	Cooling cream DAB	17156702	1
Caelo	Cooling ointment DAB 6	17156801	50
Caelo	Cooling ointment DAB 6	17156901	16
Caelo	Cooling ointment DAB 6	17157001	22
Caelo	Cooling ointment DAB 6	17157002	12
Caelo	Cooling ointment DAB 6	17157101	17
Caelo	Cooling ointment DAB 6	17157201	6
Caelo	Cooling ointment DAB 6	17157301	17
Caelo	Cooling ointment DAB 6	17162001	1
Caelo	Cooling cream DAB	1718902	1
Caelo	Cooling ointment DAB 6	17189701	34
Caelo	Cooling ointment DAB 6	1718970101	1
Caelo	Cooling cream DAB	1718980	1
Caelo	Cooling ointment DAB 6	17189801	19
Caelo	Cooling ointment DAB 6	17189802	12
Caelo	Cooling ointment DAB 6	17199003	1
Caelo	Cooling ointment DAB 6	17253801	2
Caelo	Cooling cream DAB	17254001	3
Caelo	Cooling ointment DAB 6	17254101	57
Caelo	Cooling ointment DAB 6	17254201	46
Caelo	Cooling cream DAB	1725421	1
Caelo	Cooling ointment DAB 6	17254301	8
Caelo	Cooling ointment DAB 6	17254301-20180206Ma1	1
Caelo	Cooling ointment DAB 6	17254401	13
Caelo	Cooling ointment DAB 6	17254501	20
Caelo	Cooling ointment DAB 6	172545015478	1
Caelo	Cooling ointment DAB 6	17254601	10
Caelo	Cooling ointment DAB 6	17254801	8
Caelo	Cooling ointment DAB 6	17254901	10
Caelo	Cooling ointment DAB 6	17255001	21
Caelo	Cooling ointment DAB 6	17255101	15
Caelo	Cooling cream DAB	17255901	2
Caelo	Cooling cream DAB	17296401	1
Caelo	Cooling ointment DAB 6	17298001	34
Caelo	Cooling ointment DAB 6	17298002	10
Caelo	Cooling ointment DAB 6	17298101	14
Caelo	Cooling ointment DAB 6	17298201	14
Caelo	Cooling ointment DAB 6	17298301	10
Caelo	Cooling ointment DAB 6	172983010	1
Caelo	Cooling ointment DAB 6	172983015595	1
Caelo	Cooling ointment DAB 6	17298401	20
Caelo	Cooling cream DAB	17298501	11
Caelo	Cooling ointment DAB 6	17298701	18
Caelo	Cooling ointment DAB 6	17330801	24
Caelo	Cooling ointment DAB 6	17330802	68
Caelo	Cooling cream DAB	173308021	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling cream DAB	17330803	1
Caelo	Cooling ointment DAB 6	17331001	29
Caelo	Cooling cream DAB	1733101	1
Caelo	Cooling ointment DAB 6	1733801	1
Caelo	Cooling cream DAB	17345103	1
Caelo	Cooling cream DAB	17517101	1
Caelo	Cooling cream DAB	1757101	1
Caelo	Cooling cream DAB	1798201	1
Caelo	Cooling cream DAB	17G03-B11-341399	1
Caelo	Cooling cream DAB	18000338	2
Caelo	Cooling cream DAB	18000339	1
Caelo	Cooling cream DAB	18001077	1
Caelo	Cooling cream DAB	18001080	2
Caelo	Cooling cream DAB	18001081	1
Caelo	Cooling cream DAB	18001082	3
Caelo	Cooling cream DAB	18001083	2
Caelo	Cooling cream DAB	18001084	1
Caelo	Cooling cream DAB	18002087	1
Caelo	Cooling cream DAB	18002088	1
Caelo	Cooling cream DAB	18002092	1
Caelo	Cooling cream DAB	18002093	1
Caelo	Cooling cream DAB	18002094	1
Caelo	Cooling cream DAB	18002096	3
Caelo	Cooling cream DAB	18002243	3
Caelo	Cooling cream DAB	18002305	1
Caelo	Cooling cream DAB	18002309	2
Caelo	Cooling ointment DAB 6	18002802	1
Caelo	Cooling cream DAB	18003752	1
Caelo	Cooling cream DAB	18004428	1
Caelo	Cooling cream DAB	18004431	1
Caelo	Cooling cream DAB	18004433	1
Caelo	Cooling cream DAB	18005202	1
Caelo	Cooling cream DAB	18005204	4
Caelo	Cooling cream DAB	18005205	3
Caelo	Cooling cream DAB	18005206	2
Caelo	Cooling cream DAB	18005207	4
Caelo	Cooling cream DAB	18006312	3
Caelo	Cooling cream DAB	18006325	1
Caelo	Cooling cream DAB	18012201	1
Caelo	Cooling ointment DAB 6	18021803	1
Caelo	Cooling cream DAB	180420402	1
Caelo	Cooling ointment DAB 6	18042401	55
Caelo	Cooling ointment DAB 6	18042402	12
Caelo	Cooling ointment DAB 6	18042403	11
Caelo	Cooling cream DAB	18042601	3
Caelo	Cooling ointment DAB 6	18042701	29
Caelo	Cooling ointment DAB 6	18042801	32
Caelo	Cooling ointment DAB 6	181016186	2
Caelo	Cooling ointment DAB 6	18104501	28
Caelo	Cooling ointment DAB 6	181046	2
Caelo	Cooling ointment DAB 6	18104601	25
Caelo	Cooling ointment DAB 6	18106401	4
Caelo	Cooling cream DAB	18121205	1
Caelo	Cooling ointment DAB 6	1812401	1
Caelo	Cooling cream DAB	18181201	1
Caelo	Cooling ointment DAB 6	18182301	50
Caelo	Cooling ointment DAB 6	18182401	68
Caelo	Cooling ointment DAB 6	18182501	50
Caelo	Cooling ointment DAB 6	18182601	35
Caelo	Cooling cream DAB	18182602	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling ointment DAB 6	18182701	57
Caelo	Cooling ointment DAB 6	18182702	9
Caelo	Cooling cream DAB	18182801	2
Caelo	Cooling ointment DAB 6	18182901	20
Caelo	Cooling ointment DAB 6	181829015742	1
Caelo	Cooling ointment DAB 6	18183001	10
Caelo	Cooling ointment DAB 6	18183101	12
Caelo	Cooling ointment DAB 6	18183201	23
Caelo	Cooling ointment DAB 6	18183301	18
Caelo	Cooling ointment DAB 6	18183401	20
Caelo	Cooling cream DAB	181892701	1
Caelo	Cooling ointment DAB 6	18189701	1
Caelo	Cooling ointment DAB 6	18189702	1
Caelo	Cooling ointment DAB 6	18218301	25
Caelo	Cooling ointment DAB 6	18218302	54
Caelo	Cooling ointment DAB 6	18218401	2
Caelo	Cooling ointment DAB 6	18218502	1
Caelo	Cooling ointment DAB 6	18218503	13
Caelo	Cooling ointment DAB 6	18218601	37
Caelo	Cooling ointment DAB 6	18218701	40
Caelo	Cooling ointment DAB 6	182188	1
Caelo	Cooling ointment DAB 6	18218801	18
Caelo	Cooling ointment DAB 6	18218901	33
Caelo	Cooling cream DAB	1821901	1
Caelo	Cooling ointment DAB 6	18219201	24
Caelo	Cooling ointment DAB 6	18219301	27
Caelo	Cooling ointment DAB 6	18219401	34
Caelo	Cooling cream DAB	182218901	1
Caelo	Cooling ointment DAB 6	18258401	1
Caelo	Cooling ointment DAB 6	18258402	1
Caelo	Cooling ointment DAB 6	1827201	2
Caelo	Cooling cream DAB	18272502	2
Caelo	Cooling ointment DAB 6	18272601	4
Caelo	Cooling ointment DAB 6	18272801	16
Caelo	Cooling ointment DAB 6	18272802	9
Caelo	Cooling ointment DAB 6	182729001	1
Caelo	Cooling ointment DAB 6	18272901	49
Caelo	Cooling cream DAB	18273001	8
Caelo	Cooling ointment DAB 6	18273101	21
Caelo	Cooling ointment DAB 6	182731016x	1
Caelo	Cooling ointment DAB 6	18273201	15
Caelo	Cooling cream DAB	1828801	1
Caelo	Cooling cream DAB	1845	1
Caelo	Cooling cream DAB	19000328	1
Caelo	Cooling cream DAB	19000333	2
Caelo	Cooling cream DAB	19000334	1
Caelo	Cooling cream DAB	19000575002	7
Caelo	Cooling ointment DAB 6	19000576001	17
Caelo	Cooling ointment DAB 6	19000579001	9
Caelo	Cooling ointment DAB 6	19000580001	10
Caelo	Cooling cream DAB	1900058001	1
Caelo	Cooling ointment DAB 6	19000581001	24
Caelo	Cooling ointment DAB 6	19000582001	25
Caelo	Cooling ointment DAB 6	19000582002	21
Caelo	Cooling ointment DAB 6	19000583001	41
Caelo	Cooling cream DAB	19000756	1
Caelo	Cooling ointment DAB 6	19000801003	1
Caelo	Cooling cream DAB	19001101	4
Caelo	Cooling ointment DAB 6	19001103	2
Caelo	Cooling ointment DAB 6	19001201	20

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling ointment DAB 6	19001301	19
Caelo	Cooling ointment DAB 6	19001401	18
Caelo	Cooling ointment DAB 6	19001402	61
Caelo	Cooling ointment DAB 6	19001403	5
Caelo	Cooling cream DAB	19001404	1
Caelo	Cooling ointment DAB 6	19001501	24
Caelo	Cooling cream DAB	19002511	1
Caelo	Cooling cream DAB	19004561	1
Caelo	Cooling ointment DAB 6	19006001	4
Caelo	Cooling ointment DAB 6	19006002	1
Caelo	Cooling cream DAB	190154901	1
Caelo	Cooling cream DAB	19033001	1
Caelo	Cooling cream DAB	190400404	1
Caelo	Cooling cream DAB	19043701	1
Caelo	Cooling ointment DAB 6	19047001	1
Caelo	Cooling ointment DAB 6	19047002	2
Caelo	Cooling cream DAB	19051505	1
Caelo	Cooling ointment DAB 6	1906003	1
Caelo	Cooling ointment DAB 6	19072501	1
Caelo	Cooling ointment DAB 6	19073701	79
Caelo	Cooling cream DAB	190737701	1
Caelo	Cooling ointment DAB 6	19073801	33
Caelo	Cooling ointment DAB 6	19073802	51
Caelo	Cooling cream DAB	19073803	2
Caelo	Cooling ointment DAB 6	19073901	5
Caelo	Cooling cream DAB	19074001	1
Caelo	Cooling ointment DAB 6	19074003	4
Caelo	Cooling ointment DAB 6	19074101	24
Caelo	Cooling ointment DAB 6	19074201	26
Caelo	Cooling ointment DAB 6	19074301	26
Caelo	Cooling ointment DAB 6	19074401	40
Caelo	Cooling cream DAB	190744301	1
Caelo	Cooling ointment DAB 6	19074501	28
Caelo	Cooling cream DAB	191001402	1
Caelo	Cooling ointment DAB 6	19115801	2
Caelo	Cooling ointment DAB 6	19115803	2
Caelo	Cooling cream DAB	19120101	1
Caelo	Cooling ointment DAB 6	19150101	43
Caelo	Cooling ointment DAB 6	19150102	11
Caelo	Cooling cream DAB	19150102/19074401/19074501	1
Caelo	Cooling ointment DAB 6	19150201	43
Caelo	Cooling cream DAB	1915021	1
Caelo	Cooling ointment DAB 6	19153102	6
Caelo	Cooling ointment DAB 6	19153201	16
Caelo	Cooling ointment DAB 6	19154701	15
Caelo	Cooling ointment DAB 6	19154801	4
Caelo	Cooling ointment DAB 6	19154901	20
Caelo	Cooling ointment DAB 6	19155001	49
Caelo	Cooling ointment DAB 6	1915501	4
Caelo	Cooling cream DAB	19155101	10
Caelo	Cooling ointment DAB 6	19155201	27
Caelo	Cooling ointment DAB 6	19155202	10
Caelo	Cooling cream DAB	1915M-02541	1
Caelo	Cooling ointment DAB 6	19189801	1
Caelo	Cooling ointment DAB 6	19189803	2
Caelo	Cooling cream DAB	19198501	1
Caelo	Cooling cream DAB	192238001	1
Caelo	Cooling cream DAB	192360901	1
Caelo	Cooling cream DAB	19236701	2
Caelo	Cooling cream DAB	19236710	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling ointment DAB 6	19236801	3
Caelo	Cooling ointment DAB 6	19236901	15
Caelo	Cooling ointment DAB 6	19237101	17
Caelo	Cooling ointment DAB 6	19237201	12
Caelo	Cooling ointment DAB 6	19237301	9
Caelo	Cooling ointment DAB 6	19237401	13
Caelo	Cooling ointment DAB 6	19237501	15
Caelo	Cooling ointment DAB 6	19237601	40
Caelo	Cooling ointment DAB 6	19237701	15
Caelo	Cooling cream DAB	192377101	1
Caelo	Cooling cream DAB	19237801	13
Caelo	Cooling ointment DAB 6	19237901	35
Caelo	Cooling ointment DAB 6	19238001	15
Caelo	Cooling ointment DAB 6	19257901	1
Caelo	Cooling ointment DAB 6	19258101	2
Caelo	Cooling ointment DAB 6	19258102	1
Caelo	Cooling cream DAB	19258105	1
Caelo	Cooling ointment DAB 6	1927701	1
Caelo	Cooling ointment DAB 6	19513102	1
Caelo	Cooling cream DAB	2000001	1
Caelo	Cooling cream DAB	200000228001	1
Caelo	Cooling cream DAB	20000023001	2
Caelo	Cooling cream DAB	200000231001	1
Caelo	Cooling ointment DAB 6	200000335002	1
Caelo	Cooling cream DAB	200000336001	1
Caelo	Cooling cream DAB	200001262001	1
Caelo	Cooling cream DAB	200001721001	1
Caelo	Cooling ointment DAB 6	200001722001	1
Caelo	Cooling ointment DAB 6	200001722002	1
Caelo	Cooling cream DAB	200002074002	1
Caelo	Cooling cream DAB	20000224001	5
Caelo	Cooling cream DAB	20000225001	1
Caelo	Cooling cream DAB	20000226001	1
Caelo	Cooling ointment DAB 6	20000227001	10
Caelo	Cooling ointment DAB 6	20000228001	8
Caelo	Cooling ointment DAB 6	20000229001	15
Caelo	Cooling ointment DAB 6	20000230001	9
Caelo	Cooling ointment DAB 6	2000023001	2
Caelo	Cooling ointment DAB 6	20000231001	10
Caelo	Cooling ointment DAB 6	20000232001	6
Caelo	Cooling ointment DAB 6	20000248	1
Caelo	Cooling cream DAB	200003304001	1
Caelo	Cooling cream DAB	200003305001	1
Caelo	Cooling ointment DAB 6	20000331001	18
Caelo	Cooling cream DAB	2000033101x2	1
Caelo	Cooling cream DAB	20000332001	9
Caelo	Cooling ointment DAB 6	20000333001	12
Caelo	Cooling cream DAB	20000334001	4
Caelo	Cooling ointment DAB 6	20000335001	15
Caelo	Cooling ointment DAB 6	20000335002	26
Caelo	Cooling cream DAB	2000033502	1
Caelo	Cooling ointment DAB 6	20000336001	29
Caelo	Cooling cream DAB	2000035002	1
Caelo	Cooling ointment DAB 6	200004342001	1
Caelo	Cooling cream DAB	200004343001	1
Caelo	Cooling cream DAB	20000536	1
Caelo	Cooling ointment DAB 6	20000801003	1
Caelo	Cooling cream DAB	2000125002	1
Caelo	Cooling cream DAB	200012508001	1
Caelo	Cooling cream DAB	20001257001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling ointment DAB 6	20001257002	17
Caelo	Cooling ointment DAB 6	20001258001	13
Caelo	Cooling cream DAB	200012590001	1
Caelo	Cooling ointment DAB 6	20001259001	20
Caelo	Cooling cream DAB	2000126001	3
Caelo	Cooling ointment DAB 6	20001261001	14
Caelo	Cooling ointment DAB 6	20001262001	46
Caelo	Cooling ointment DAB 6	200012621001	1
Caelo	Cooling ointment DAB 6	20001263001	19
Caelo	Cooling ointment DAB 6	20001263002	22
Caelo	Cooling ointment DAB 6	20001263003	6
Caelo	Cooling cream DAB	20001295001	1
Caelo	Cooling ointment DAB 6	20001346001	1
Caelo	Cooling cream DAB	20001676002	1
Caelo	Cooling ointment DAB 6	20001716001	2
Caelo	Cooling cream DAB	20001716002	6
Caelo	Cooling ointment DAB 6	20001717001	10
Caelo	Cooling ointment DAB 6	20001718001	12
Caelo	Cooling ointment DAB 6	20001719001	11
Caelo	Cooling cream DAB	20001719001/4720	1
Caelo	Cooling ointment DAB 6	20001720001	15
Caelo	Cooling ointment DAB 6	20001721001	14
Caelo	Cooling ointment DAB 6	20001722001	15
Caelo	Cooling ointment DAB 6	20001722002	7
Caelo	Cooling cream DAB	2000172201	1
Caelo	Cooling cream DAB	20002072002	4
Caelo	Cooling ointment DAB 6	20002073001	12
Caelo	Cooling cream DAB	2000207301	1
Caelo	Cooling ointment DAB 6	20002074001	8
Caelo	Cooling ointment DAB 6	20002074002	8
Caelo	Cooling cream DAB	20002074701	1
Caelo	Cooling cream DAB	20002075001	3
Caelo	Cooling ointment DAB 6	20002123002	2
Caelo	Cooling ointment DAB 6	2000213002	1
Caelo	Cooling cream DAB	20002266	1
Caelo	Cooling cream DAB	20002267	1
Caelo	Cooling cream DAB	20002332001-3	1
Caelo	Cooling cream DAB	20002592002	1
Caelo	Cooling cream DAB	20002851001	1
Caelo	Cooling ointment DAB 6	20002950001	25
Caelo	Cooling cream DAB	2000295001	2
Caelo	Cooling cream DAB	2000295002	1
Caelo	Cooling ointment DAB 6	20002951001	10
Caelo	Cooling cream DAB	20002951002	2
Caelo	Cooling ointment DAB 6	20002951003	10
Caelo	Cooling cream DAB	20002952001	2
Caelo	Cooling cream DAB	20002952002	3
Caelo	Cooling ointment DAB 6	20002953001	18
Caelo	Cooling ointment DAB 6	20002954001	1
Caelo	Cooling cream DAB	20002955001	10
Caelo	Cooling cream DAB	20002955001-3	1
Caelo	Cooling cream DAB	2000295501	3
Caelo	Cooling ointment DAB 6	20002956001	5
Caelo	Cooling cream DAB	20002960001	1
Caelo	Cooling ointment DAB 6	20003003001	2
Caelo	Cooling cream DAB	20003302002	2
Caelo	Cooling ointment DAB 6	20003303001	11
Caelo	Cooling cream DAB	20003303001-1	1
Caelo	Cooling cream DAB	20003303001-2	1
Caelo	Cooling ointment DAB 6	20003304001	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling ointment DAB 6	20003305001	13
Caelo	Cooling ointment DAB 6	20003305002	8
Caelo	Cooling cream DAB	20003329001	1
Caelo	Cooling ointment DAB 6	2000335001	1
Caelo	Cooling ointment DAB 6	20003917001	1
Caelo	Cooling ointment DAB 6	20003917003	2
Caelo	Cooling cream DAB	20004319001	1
Caelo	Cooling cream DAB	2000434001	1
Caelo	Cooling ointment DAB 6	20004341002	9
Caelo	Cooling ointment DAB 6	200043420001	1
Caelo	Cooling ointment DAB 6	20004342001	26
Caelo	Cooling ointment DAB 6	20004343001	18
Caelo	Cooling ointment DAB 6	20004344001	7
Caelo	Cooling cream DAB	20004345001	1
Caelo	Cooling ointment DAB 6	20004346001	6
Caelo	Cooling ointment DAB 6	20004347001	6
Caelo	Cooling ointment DAB 6	20004348001	7
Caelo	Cooling cream DAB	20004349001	5
Caelo	Cooling cream DAB	20004651	1
Caelo	Cooling cream DAB	20004849001	1
Caelo	Cooling cream DAB	2001262001	1
Caelo	Cooling ointment DAB 6	2001263002	1
Caelo	Cooling ointment DAB 6	2002074002	1
Caelo	Cooling cream DAB	2002954001	1
Caelo	Cooling ointment DAB 6	2002955001	2
Caelo	Cooling ointment DAB 6	2002956001	1
Caelo	Cooling ointment DAB 6	20061802	1
Caelo	Cooling ointment DAB 6	20130912-3	1
Caelo	Cooling cream DAB	202223333001	1
Caelo	Cooling cream DAB	2073001	1
Caelo	Cooling cream DAB	2081201	1
Caelo	Cooling cream DAB	2091404	1
Caelo	Cooling ointment DAB 6	210000662002	1
Caelo	Cooling cream DAB	210002380002	1
Caelo	Cooling cream DAB	21000659001	4
Caelo	Cooling cream DAB	21000660001	1
Caelo	Cooling ointment DAB 6	21000660003	5
Caelo	Cooling cream DAB	21000661001	13
Caelo	Cooling cream DAB	21000662001	6
Caelo	Cooling ointment DAB 6	21000662002	5
Caelo	Cooling cream DAB	210006621001	1
Caelo	Cooling ointment DAB 6	21000663001	5
Caelo	Cooling cream DAB	21000664001	6
Caelo	Cooling ointment DAB 6	21000665001	9
Caelo	Cooling cream DAB	21000665001(2)	1
Caelo	Cooling cream DAB	21000665001(3)	1
Caelo	Cooling ointment DAB 6	21000666001	9
Caelo	Cooling ointment DAB 6	21000667001	3
Caelo	Cooling ointment DAB 6	21000668001	6
Caelo	Cooling ointment DAB 6	21001128001	4
Caelo	Cooling cream DAB	21001230002	3
Caelo	Cooling cream DAB	2100123001	2
Caelo	Cooling ointment DAB 6	21001231002	4
Caelo	Cooling ointment DAB 6	21001232001	20
Caelo	Cooling cream DAB	2100123201	1
Caelo	Cooling cream DAB	21001233001	4
Caelo	Cooling ointment DAB 6	21001233002	5
Caelo	Cooling ointment DAB 6	21001234001	6
Caelo	Cooling cream DAB	210012378001	1
Caelo	Cooling ointment DAB 6	21001854001	13

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling cream DAB	21001855001	5
Caelo	Cooling ointment DAB 6	21001855002	3
Caelo	Cooling cream DAB	21001856002	3
Caelo	Cooling ointment DAB 6	21001857002	1
Caelo	Cooling ointment DAB 6	21001858001	2
Caelo	Cooling cream DAB	21001859001	4
Caelo	Cooling cream DAB	21001947	1
Caelo	Cooling ointment DAB 6	21002191001	4
Caelo	Cooling cream DAB	21002360002	1
Caelo	Cooling ointment DAB 6	21002376002	4
Caelo	Cooling ointment DAB 6	21002378001	7
Caelo	Cooling cream DAB	21002379001	4
Caelo	Cooling ointment DAB 6	21002380001	4
Caelo	Cooling ointment DAB 6	21002380002	5
Caelo	Cooling cream DAB	2100238002	1
Caelo	Cooling cream DAB	21002381001	3
Caelo	Cooling cream DAB	21002382001	3
Caelo	Cooling ointment DAB 6	21002383001	13
Caelo	Cooling cream DAB	2100338002	1
Caelo	Cooling ointment DAB 6	21003382001	3
Caelo	Cooling cream DAB	21003383001	3
Caelo	Cooling cream DAB	21003385001	2
Caelo	Cooling cream DAB	21003386002	2
Caelo	Cooling ointment DAB 6	21003387001	3
Caelo	Cooling cream DAB	21003387002	1
Caelo	Cooling cream DAB	21003388001	1
Caelo	Cooling cream DAB	210033888001	1
Caelo	Cooling ointment DAB 6	21003389001	1
Caelo	Cooling cream DAB	21003389002	1
Caelo	Cooling cream DAB	21003389003	1
Caelo	Cooling ointment DAB 6	21004034003	1
Caelo	Cooling cream DAB	21071401	1
Caelo	Cooling cream DAB	210811(21000661001)	1
Caelo	Cooling cream DAB	210928(21001232001)	1
Caelo	Cooling ointment DAB 6	2118U-02541	1
Caelo	Cooling ointment DAB 6	213E-02541	1
Caelo	Cooling cream DAB	214001859001	1
Caelo	Cooling cream DAB	22000002701	1
Caelo	Cooling cream DAB	22000024001	2
Caelo	Cooling cream DAB	22000026001	1
Caelo	Cooling ointment DAB 6	22000027001	3
Caelo	Cooling ointment DAB 6	22000031001	3
Caelo	Cooling cream DAB	220000311001	1
Caelo	Cooling cream DAB	22001377001	1
Caelo	Cooling cream DAB	220103	1
Caelo	Cooling cream DAB	220124(21003388001)	1
Caelo	Cooling cream DAB	220131(21003388001)	1
Caelo	Cooling cream DAB	22021305	1
Caelo	Cooling cream DAB	220401UL	1
Caelo	Cooling cream DAB	220502(21003386002)	1
Caelo	Cooling cream DAB	220505(22000031001)	1
Caelo	Cooling cream DAB	220512(22000031001)	1
Caelo	Cooling cream DAB	22051307	1
Caelo	Cooling cream DAB	220516(22000031001)	1
Caelo	Cooling cream DAB	220523(22000031001)	1
Caelo	Cooling cream DAB	22061301	1
Caelo	Cooling cream DAB	220614(22000033002)	1
Caelo	Cooling cream DAB	220728(22000033002)	1
Caelo	Cooling cream DAB	220809(22000031001)	1
Caelo	Cooling ointment DAB 6	23051806	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling ointment DAB 6	23051809	1
Caelo	Cooling cream DAB	23121412	1
Caelo	Cooling cream DAB	25021414	1
Caelo	Cooling cream DAB	25091308	1
Caelo	Cooling cream DAB	26071307	1
Caelo	Cooling cream DAB	2618M-02541	1
Caelo	Cooling cream DAB	27061201	1
Caelo	Cooling cream DAB	27111201	1
Caelo	Cooling cream DAB	271631	1
Caelo	Cooling cream DAB	272479	2
Caelo	Cooling cream DAB	273441	2
Caelo	Cooling cream DAB	275666	2
Caelo	Cooling cream DAB	2769	1
Caelo	Cooling cream DAB	279753	1
Caelo	Cooling cream DAB	28021306	1
Caelo	Cooling cream DAB	28101302	1
Caelo	Cooling cream DAB	281140	1
Caelo	Cooling cream DAB	28121203	1
Caelo	Cooling cream DAB	281822	2
Caelo	Cooling cream DAB	285504	2
Caelo	Cooling cream DAB	287481	1
Caelo	Cooling cream DAB	289265	1
Caelo	Cooling ointment DAB 6	29011801	1
Caelo	Cooling cream DAB	290386	2
Caelo	Cooling cream DAB	29081509	1
Caelo	Cooling cream DAB	293748	1
Caelo	Cooling cream DAB	295123	1
Caelo	Cooling cream DAB	295762	1
Caelo	Cooling cream DAB	298289	1
Caelo	Cooling cream DAB	299352	1
Caelo	Cooling cream DAB	299357	1
Caelo	Cooling cream DAB	299361	1
Caelo	Cooling cream DAB	2x16129501	1
Caelo	Cooling cream DAB	30011505	1
Caelo	Cooling cream DAB	30081302	1
Caelo	Cooling cream DAB	30091402	1
Caelo	Cooling cream DAB	3012M-02541	1
Caelo	Cooling cream DAB	301701	1
Caelo	Cooling cream DAB	302378	1
Caelo	Cooling cream DAB	304582	1
Caelo	Cooling cream DAB	304590	1
Caelo	Cooling cream DAB	304591	2
Caelo	Cooling cream DAB	305018	1
Caelo	Cooling cream DAB	305022	1
Caelo	Cooling cream DAB	305129	1
Caelo	Cooling cream DAB	305131	1
Caelo	Cooling cream DAB	306930	5
Caelo	Cooling cream DAB	306932	1
Caelo	Cooling cream DAB	306937	3
Caelo	Cooling cream DAB	306941	1
Caelo	Cooling cream DAB	306944	1
Caelo	Cooling cream DAB	307356	1
Caelo	Cooling cream DAB	307358	1
Caelo	Cooling cream DAB	307919	1
Caelo	Cooling cream DAB	307931	1
Caelo	Cooling cream DAB	308723	1
Caelo	Cooling cream DAB	309370	1
Caelo	Cooling cream DAB	310004	1
Caelo	Cooling cream DAB	310005	2
Caelo	Cooling cream DAB	31011301	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling cream DAB	310988	2
Caelo	Cooling cream DAB	310989	1
Caelo	Cooling ointment DAB 6	311218182501	1
Caelo	Cooling cream DAB	3112200043421	1
Caelo	Cooling cream DAB	3112200043431	1
Caelo	Cooling cream DAB	3144-17156801	1
Caelo	Cooling cream DAB	3217I-02541	1
Caelo	Cooling cream DAB	3287	1
Caelo	Cooling cream DAB	3413E-02541	1
Caelo	Cooling cream DAB	3963/V12/14	1
Caelo	Cooling cream DAB	3964/V01/15	1
Caelo	Cooling cream DAB	4051503	2
Caelo	Cooling cream DAB	4061203	1
Caelo	Cooling cream DAB	4061405	1
Caelo	Cooling cream DAB	41(17189701)	1
Caelo	Cooling cream DAB	42(17298002)	1
Caelo	Cooling cream DAB	43(18219201)	1
Caelo	Cooling cream DAB	4313I-02541	1
Caelo	Cooling cream DAB	45(20004343001)	1
Caelo	Cooling cream DAB	46(20003305001)	1
Caelo	Cooling cream DAB	47(20003305001)	1
Caelo	Cooling cream DAB	4817A-02541	1
Caelo	Cooling ointment DAB 6	5011902	1
Caelo	Cooling cream DAB	5031509	1
Caelo	Cooling cream DAB	5132	1
Caelo	Cooling cream DAB	5215A-02541	1
Caelo	Cooling cream DAB	5321500	1
Caelo	Cooling ointment DAB 6	5328001	1
Caelo	Cooling cream DAB	5600300	1
Caelo	Cooling cream DAB	5735600	1
Caelo	Cooling cream DAB	6002062002	1
Caelo	Cooling cream DAB	6012127001	1
Caelo	Cooling ointment DAB 6	6012127002	3
Caelo	Cooling cream DAB	6051702	1
Caelo	Cooling cream DAB	6061303	1
Caelo	Cooling cream DAB	6111201	1
Caelo	Cooling cream DAB	6111202	1
Caelo	Cooling ointment DAB 6	6111802	1
Caelo	Cooling cream DAB	613I-02541	1
Caelo	Cooling cream DAB	6861944	1
Caelo	Cooling cream DAB	7021301	1
Caelo	Cooling cream DAB	7071203	1
Caelo	Cooling cream DAB	7091201	1
Caelo	Cooling cream DAB	719A-03978	1
Caelo	Cooling cream DAB	72/AD2	1
Caelo	Cooling cream DAB	73/AKD3	1
Caelo	Cooling cream DAB	8002320007	2
Caelo	Cooling cream DAB	80027600004	1
Caelo	Cooling cream DAB	8002875004	1
Caelo	Cooling cream DAB	8003158005	1
Caelo	Cooling cream DAB	8003478004	1
Caelo	Cooling ointment DAB 6	8003478005	1
Caelo	Cooling cream DAB	8003478006	2
Caelo	Cooling cream DAB	8003478007	1
Caelo	Cooling cream DAB	8003478008	2
Caelo	Cooling cream DAB	8041304	1
Caelo	Cooling cream DAB	8091807	1
Caelo	Cooling cream DAB	8111201	1
Caelo	Cooling cream DAB	8121403	1
Caelo	Cooling cream DAB	9000581001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cooling cream DAB	913022UL	1
Caelo	Cooling cream DAB	913I-02541	1
Caelo	Cooling cream DAB	9150301	1
Caelo	Cooling cream DAB	92378011	1
Caelo	Cooling ointment DAB 6	Caelo	1
Caelo	Cooling cream DAB	CH-B17157201	1
Caelo	Cooling cream DAB	CH-B18219301	1
Caelo	Cooling cream DAB	CH-B19074301	1
Caelo	Cooling cream DAB	CHB19237201	1
Caelo	Cooling cream DAB	CHB20001259001	1
Caelo	Cooling cream DAB	P158/14	1
Caeol/Noweda	Cooling cream DAB	20002950001	2
Caeolo/Ahd	Cooling cream DAB	18272802	1
Caeolo/Noweda	Cooling cream DAB	18219301	1
Caeolo/Phönix	Cooling cream DAB	16354401	1
Caeolo/Sanacorp	Cooling cream DAB	17330802	1
Caesar & Loretz GmbH / ...	Cooling cream DAB	21000663001	1
Caesar & Loretz GmbH / ...	Cooling cream DAB	19074501	1
Caesar & Loretz GmbH / ...	Cooling cream DAB	19150102	1
Caesar & Loretz GmbH / ...	Cooling cream DAB	19237701	2
Caesar & Loretz GmbH /F...	Cooling cream DAB	19000576001	1
Caesar & Loretz GmbH /n...	Cooling cream DAB	20000335001	1
Caesar & Loretz GmbH 40...	Cooling cream DAB	11299001	1
Caesar & Loretz GmbH D-...	Cooling cream DAB	12253001	1
Caesar & Loretz GmbH, 4...	Cooling cream DAB	12046001	1
Caesar & Loretz GmbH, 4...	Cooling cream DAB	12046201	2
Caesar & Loretz GmbH, 4...	Cooling cream DAB	12174401	2
Caesar & Loretz GmbH, 4...	Cooling cream DAB	12182801	2
Caesar & Loretz GmbH, 4...	Cooling cream DAB	12292301	1
Caesar & Loretz GmbH, 4...	Cooling cream DAB	13059601	1
Caesar & Loretz GmbH, 4...	Cooling cream DAB	13121401	2
Caesar & Loretz GmbH, 4...	Cooling cream DAB	13121701	2
Caesar & Loretz GmbH, 4...	Cooling cream DAB	13175101	4
Caesar & Loretz GmbH, 4...	Cooling cream DAB	13192001	1
Caesar & Loretz GmbH, 4...	Cooling cream DAB	13315601	1
Caesar & Loretz GmbH, G...	Cooling cream DAB	21000664001	1
Caesar & Loretz GmbH, P...	Cooling cream DAB	20001259001	1
Caesar & Loretz GmbH, P...	Cooling cream DAB	20002951002	1
Caesar & Loretz GmbH, P...	Cooling cream DAB	21001854001	1
Caesar & Loretz GmbH/ F...	Cooling cream DAB	21000663001	1
Caesar & Loretz GmbH/ K...	Cooling cream DAB	20002073001	1
Caesar & Loretz GmbH/ P...	Cooling cream DAB	191502	3
Caesar & Loretz GmbH/ S...	Cooling cream DAB	20001721001	1
Caesar & Loretz GmbH//S...	Cooling cream DAB	20000229001	1
Caesar & Loretz GmbH//S...	Cooling cream DAB	20000231001	1
Caesar & Loretz GmbH/AEP	Cooling cream DAB	19237201	1
Caesar & Loretz GmbH/AEP	Cooling cream DAB	20000331001	1
Caesar & Loretz GmbH/AHD	Cooling cream DAB	19237101	2
Caesar & Loretz GmbH/AHD	Cooling cream DAB	20000230001	1
Caesar & Loretz GmbH/Al...	Cooling cream DAB	1900057001	1
Caesar & Loretz GmbH/Al...	Cooling ointment DAB 6	19000580001	2
Caesar & Loretz GmbH/Al...	Cooling ointment DAB 6	19000582002	1
Caesar & Loretz GmbH/An...	Cooling cream DAB	19074101	1
Caesar & Loretz GmbH/An...	Cooling cream DAB	19237101	1
Caesar & Loretz GmbH/Eb...	Cooling cream DAB	20001262001	2
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	19000579001	1
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	19001201	2
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	19155001	2
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	19237301	1
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	19237601	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	20000333001	1
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	20001259001	1
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	20001719001	1
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	20001722002	1
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	20002075001	1
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	20002953001	2
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	20002954001	1
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	20004347001	1
Caesar & Loretz GmbH/Fi...	Cooling cream DAB	21000668001	1
Caesar & Loretz GmbH/Gehe	Cooling cream DAB	19000583001	2
Caesar & Loretz GmbH/GEHE	Cooling cream DAB	19073801	1
Caesar & Loretz GmbH/Gehe	Cooling cream DAB	19073802	2
Caesar & Loretz GmbH/GEHE	Cooling ointment DAB 6	19150101	1
Caesar & Loretz GmbH/GEHE	Cooling cream DAB	200002073001	1
Caesar & Loretz GmbH/GEHE	Cooling cream DAB	20000335001	1
Caesar & Loretz GmbH/GEHE	Cooling ointment DAB 6	20000335002	1
Caesar & Loretz GmbH/Gehe	Cooling cream DAB	20001262001	1
Caesar & Loretz GmbH/GEHE	Cooling ointment DAB 6	20001262001	1
Caesar & Loretz GmbH/Gehe	Cooling cream DAB	20001263001	1
Caesar & Loretz GmbH/GEHE	Cooling ointment DAB 6	21000661001	1
Caesar & Loretz GmbH/GEhe	Cooling cream DAB	21001859001	1
Caesar & Loretz GmbH/Gehe	Cooling cream DAB	21002380002	1
Caesar & Loretz GmbH/Gehe	Cooling cream DAB	21003385001	1
Caesar & Loretz GmbH/Gehe	Cooling cream DAB	22000031001	1
Caesar & Loretz GmbH/Je...	Cooling cream DAB	19074501	1
Caesar & Loretz GmbH/Je...	Cooling cream DAB	19150101	1
Caesar & Loretz GmbH/Je...	Cooling cream DAB	19154701	1
Caesar & Loretz GmbH/Je...	Cooling cream DAB	19237301	1
Caesar & Loretz GmbH/Je...	Cooling cream DAB	20000228001	1
Caesar & Loretz GmbH/Je...	Cooling cream DAB	20000230001	1
Caesar & Loretz GmbH/Je...	Cooling cream DAB	20000335001	1
Caesar & Loretz GmbH/Je...	Cooling ointment DAB 6	20002951002	1
Caesar & Loretz GmbH/Je...	Cooling ointment DAB 6	20002953001	1
Caesar & Loretz GmbH/Kehr	Cooling cream DAB	19001401	1
Caesar & Loretz GmbH/Kehr	Cooling cream DAB	19073802	1
Caesar & Loretz GmbH/Kr...	Cooling cream DAB	200003336001	1
Caesar & Loretz GmbH/No...	Cooling cream DAB	18218901	1
Caesar & Loretz GmbH/No...	Cooling cream DAB	19150201	1
Caesar & Loretz GmbH/No...	Cooling cream DAB	19155101	1
Caesar & Loretz GmbH/Phoe	Cooling cream DAB	20003305002	3
Caesar & Loretz GmbH/Phoe	Cooling cream DAB	20004343001	3
Caesar & Loretz GmbH/Phoe	Cooling cream DAB	21001855001	1
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	20000227001	1
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	20001263001	1
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	20001722001	3
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	20002951001	1
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	21000665001	2
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	21003389002	1
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	22000031001	1
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	19237701	1
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	20000228001	1
Caesar & Loretz GmbH/ph...	Cooling cream DAB	20001262001	1
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	20001716002	1
Caesar & Loretz GmbH/Ph...	Cooling cream DAB	20004347001	2
Caesar & Loretz GmbH/Sa...	Cooling cream DAB	19074003	1
Caesar & Loretz GmbH/Sa...	Cooling cream DAB	20001262001	2
Caesar & Loretz GmbH/Sa...	Cooling cream DAB	20001719001	1
Caesar & Loretz GmbH/Sa...	Cooling cream DAB	20001721001	1
Caesar & Loretz GmbH/Sa...	Cooling cream DAB	20002073001	1
Caesar & Loretz GmbH/sa...	Cooling cream DAB	20002950001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Sa...	Cooling cream DAB	20002951002	1
Caesar & Loretz GmbH/Sa...	Cooling cream DAB	21001854001	4
Caesar & Loretz GmbH	Cooling cream DAB	12178901	1
Caesar & Loretz GmbH	Cooling cream DAB	12306001	1
Caesar & Loretz GmbH	Cooling cream DAB	13315101	1
Caesar & Loretz GmbH	Cooling cream DAB	13315201	1
Caesar & Loretz GmbH	Cooling cream DAB	14085901	3
Caesar & Loretz GmbH	Cooling cream DAB	14184501	1
Caesar & Loretz GmbH	Cooling cream DAB	14278701	1
Caesar & Loretz GmbH	Cooling cream DAB	15228601	1
Caesar & Loretz GmbH	Cooling cream DAB	15434401	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	16222401	1
Caesar & Loretz GmbH	Cooling cream DAB	17330802	1
Caesar & Loretz GmbH	Cooling cream DAB	18005202	1
Caesar & Loretz GmbH	Cooling cream DAB	18182301	1
Caesar & Loretz GmbH	Cooling cream DAB	18182401	1
Caesar & Loretz GmbH	Cooling cream DAB	18182501	4
Caesar & Loretz GmbH	Cooling cream DAB	18182601	2
Caesar & Loretz GmbH	Cooling cream DAB	18182701	1
Caesar & Loretz GmbH	Cooling cream DAB	18182801	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	18218302	2
Caesar & Loretz GmbH	Cooling cream DAB	18218401	1
Caesar & Loretz GmbH	Cooling cream DAB	18218502	2
Caesar & Loretz GmbH	Cooling cream DAB	18218701	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	18219201	2
Caesar & Loretz GmbH	Cooling cream DAB	18219301	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	18219401	5
Caesar & Loretz GmbH	Cooling cream DAB	18272801	2
Caesar & Loretz GmbH	Cooling cream DAB	18272802	5
Caesar & Loretz GmbH	Cooling ointment DAB 6	18272901	18
Caesar & Loretz GmbH	Cooling cream DAB	18273001	2
Caesar & Loretz GmbH	Cooling cream DAB	18273101	4
Caesar & Loretz GmbH	Cooling cream DAB	18273201	2
Caesar & Loretz GmbH	Cooling cream DAB	19000576001	7
Caesar & Loretz GmbH	Cooling cream DAB	19000579001	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	19000580001	4
Caesar & Loretz GmbH	Cooling ointment DAB 6	19000581001	3
Caesar & Loretz GmbH	Cooling cream DAB	19000582001	2
Caesar & Loretz GmbH	Cooling cream DAB	19000582002	1
Caesar & Loretz GmbH	Cooling cream DAB	19000583001	4
Caesar & Loretz GmbH	Cooling ointment DAB 6	19001201	5
Caesar & Loretz GmbH	Cooling cream DAB	19001301	10
Caesar & Loretz GmbH	Cooling ointment DAB 6	19001401	4
Caesar & Loretz GmbH	Cooling ointment DAB 6	19001402	16
Caesar & Loretz GmbH	Cooling ointment DAB 6	19001403	1
Caesar & Loretz GmbH	Cooling cream DAB	19001419	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	19001501	5
Caesar & Loretz GmbH	Cooling ointment DAB 6	19006002	3
Caesar & Loretz GmbH	Cooling cream DAB	190737	1
Caesar & Loretz GmbH	Cooling cream DAB	19073701	15
Caesar & Loretz GmbH	Cooling ointment DAB 6	19073801	12
Caesar & Loretz GmbH	Cooling cream DAB	19073802	1
Caesar & Loretz GmbH	Cooling cream DAB	19073901	1
Caesar & Loretz GmbH	Cooling cream DAB	19074003	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	19074101	3
Caesar & Loretz GmbH	Cooling ointment DAB 6	19074201	3
Caesar & Loretz GmbH	Cooling cream DAB	19074301	4
Caesar & Loretz GmbH	Cooling ointment DAB 6	19074401	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	19074501	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	19150101	7

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Cooling ointment DAB 6	19150102	3
Caesar & Loretz GmbH	Cooling cream DAB	19150201	8
Caesar & Loretz GmbH	Cooling ointment DAB 6	19153102	3
Caesar & Loretz GmbH	Cooling cream DAB	19153201	1
Caesar & Loretz GmbH	Cooling cream DAB	19154701	3
Caesar & Loretz GmbH	Cooling ointment DAB 6	19154801	1
Caesar & Loretz GmbH	Cooling cream DAB	19154901	4
Caesar & Loretz GmbH	Cooling cream DAB	19155001	11
Caesar & Loretz GmbH	Cooling cream DAB	19155101	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	19155201	5
Caesar & Loretz GmbH	Cooling cream DAB	19155202	3
Caesar & Loretz GmbH	Cooling cream DAB	19236701	1
Caesar & Loretz GmbH	Cooling cream DAB	19236801	1
Caesar & Loretz GmbH	Cooling cream DAB	19236901	4
Caesar & Loretz GmbH	Cooling cream DAB	19237101	2
Caesar & Loretz GmbH	Cooling cream DAB	19237201	3
Caesar & Loretz GmbH	Cooling cream DAB	19237301	4
Caesar & Loretz GmbH	Cooling ointment DAB 6	19237401	5
Caesar & Loretz GmbH	Cooling ointment DAB 6	19237501	3
Caesar & Loretz GmbH	Cooling cream DAB	19237601	3
Caesar & Loretz GmbH	Cooling cream DAB	19237701	6
Caesar & Loretz GmbH	Cooling cream DAB	19237801	5
Caesar & Loretz GmbH	Cooling ointment DAB 6	19237901	11
Caesar & Loretz GmbH	Cooling ointment DAB 6	19238001	3
Caesar & Loretz GmbH	Cooling cream DAB	20000224001	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	20000226001	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	20000227001	5
Caesar & Loretz GmbH	Cooling ointment DAB 6	20000228001	2
Caesar & Loretz GmbH	Cooling cream DAB	20000229001	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	20000230001	3
Caesar & Loretz GmbH	Cooling cream DAB	20000231001	6
Caesar & Loretz GmbH	Cooling cream DAB	20000232001	2
Caesar & Loretz GmbH	Cooling cream DAB	20000331001	4
Caesar & Loretz GmbH	Cooling cream DAB	20000332001	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	20000333001	2
Caesar & Loretz GmbH	Cooling cream DAB	20000334001	1
Caesar & Loretz GmbH	Cooling cream DAB	20000335001	4
Caesar & Loretz GmbH	Cooling ointment DAB 6	20000335002	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	20000336001	9
Caesar & Loretz GmbH	Cooling cream DAB	20001257001	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	20001257002	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	20001259001	3
Caesar & Loretz GmbH	Cooling cream DAB	20001261001	1
Caesar & Loretz GmbH	Cooling cream DAB	20001262001	8
Caesar & Loretz GmbH	Cooling cream DAB	20001263001	7
Caesar & Loretz GmbH	Cooling cream DAB	20001263002	2
Caesar & Loretz GmbH	Cooling cream DAB	20001610	1
Caesar & Loretz GmbH	Cooling cream DAB	20001716002	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	20001717001	2
Caesar & Loretz GmbH	Cooling cream DAB	20001719001	3
Caesar & Loretz GmbH	Cooling cream DAB	20001720001	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	20001721001	2
Caesar & Loretz GmbH	Cooling cream DAB	20001722001	3
Caesar & Loretz GmbH	Cooling cream DAB	20001722002	3
Caesar & Loretz GmbH	Cooling cream DAB	20002073001	5
Caesar & Loretz GmbH	Cooling ointment DAB 6	20002074001	4
Caesar & Loretz GmbH	Cooling cream DAB	20002074002	1
Caesar & Loretz GmbH	Cooling cream DAB	20002075001	2
Caesar & Loretz GmbH	Cooling cream DAB	20002950001	5
Caesar & Loretz GmbH	Cooling ointment DAB 6	20002951001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Cooling cream DAB	20002951002	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	20002951003	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	20002953001	2
Caesar & Loretz GmbH	Cooling ointment DAB 6	20002955001	1
Caesar & Loretz GmbH	Cooling cream DAB	20002956001	1
Caesar & Loretz GmbH	Cooling cream DAB	20003303001	1
Caesar & Loretz GmbH	Cooling cream DAB	20003304001	1
Caesar & Loretz GmbH	Cooling cream DAB	20003305001	3
Caesar & Loretz GmbH	Cooling cream DAB	20003305002	2
Caesar & Loretz GmbH	Cooling cream DAB	20003305011	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	20004341002	4
Caesar & Loretz GmbH	Cooling ointment DAB 6	20004342001	4
Caesar & Loretz GmbH	Cooling ointment DAB 6	20004343001	6
Caesar & Loretz GmbH	Cooling cream DAB	20004344001	3
Caesar & Loretz GmbH	Cooling cream DAB	20004345001	1
Caesar & Loretz GmbH	Cooling cream DAB	20004346001	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	20004347001	2
Caesar & Loretz GmbH	Cooling cream DAB	20004348001	2
Caesar & Loretz GmbH	Cooling cream DAB	21000661001	3
Caesar & Loretz GmbH	Cooling cream DAB	21000662001	1
Caesar & Loretz GmbH	Cooling cream DAB	21000662002	2
Caesar & Loretz GmbH	Cooling cream DAB	21000666001	3
Caesar & Loretz GmbH	Cooling cream DAB	21000667001	1
Caesar & Loretz GmbH	Cooling cream DAB	21000668001	1
Caesar & Loretz GmbH	Cooling cream DAB	21001232001	1
Caesar & Loretz GmbH	Cooling cream DAB	21001233001	2
Caesar & Loretz GmbH	Cooling cream DAB	21001233002	1
Caesar & Loretz GmbH	Cooling cream DAB	21001234001	2
Caesar & Loretz GmbH	Cooling cream DAB	21001854001	2
Caesar & Loretz GmbH	Cooling cream DAB	21001855001	1
Caesar & Loretz GmbH	Cooling cream DAB	21001855002	1
Caesar & Loretz GmbH	Cooling cream DAB	21001856002	3
Caesar & Loretz GmbH	Cooling cream DAB	21001859001	1
Caesar & Loretz GmbH	Cooling cream DAB	21002378001	5
Caesar & Loretz GmbH	Cooling cream DAB	21002380001	1
Caesar & Loretz GmbH	Cooling cream DAB	21002380002	1
Caesar & Loretz GmbH	Cooling cream DAB	21002381001	1
Caesar & Loretz GmbH	Cooling cream DAB	21002382001	2
Caesar & Loretz GmbH	Cooling cream DAB	21002383001	3
Caesar & Loretz GmbH	Cooling cream DAB	21003381001	1
Caesar & Loretz GmbH	Cooling cream DAB	21003382001	1
Caesar & Loretz GmbH	Cooling cream DAB	21003383001	2
Caesar & Loretz GmbH	Cooling cream DAB	21003385001	2
Caesar & Loretz GmbH	Cooling cream DAB	21003386002	1
Caesar & Loretz GmbH	Cooling cream DAB	21003387001	1
Caesar & Loretz GmbH	Cooling cream DAB	21003388001	1
Caesar & Loretz GmbH	Cooling cream DAB	21003389002	1
Caesar & Loretz GmbH	Cooling cream DAB	21003389003	1
Caesar & Loretz GmbH	Cooling cream DAB	2100662002	1
Caesar & Loretz GmbH	Cooling cream DAB	22000024001	1
Caesar & Loretz GmbH	Cooling cream DAB	22000025001	1
Caesar & Loretz GmbH	Cooling ointment DAB 6	22000027001	1
Caesar & Loretz GmbH	Cooling cream DAB	22000028001	2
Caesar & Loretz GmbH	Cooling cream DAB	22000033002	2
Caesar & Loretz GmbH	Cooling cream DAB	282019	1
Caesar & Loretz GmbH	Cooling cream DAB	3B150420	1
Caesar & Loretz/Geilenk...	Cooling cream DAB	19001402	1
Caesar & Loretz/Geilenk...	Cooling cream DAB	19073701	2
Caesar & Loretz/Noweda	Cooling ointment DAB 6	15328001	1
Caesar & Loretz/Noweda	Cooling ointment DAB 6	16134201	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz/Noweda	Cooling ointment DAB 6	16172601	1
Caesar & Loretz	Cooling cream DAB	16244701	2
Caesar & Loretz	Cooling cream DAB	17075101	1
Caesar & Loretz	Cooling cream DAB	17075201	1
Caesar & Loretz	Cooling cream DAB	17254201	1
Caesar & Loretz	Cooling ointment DAB 6	18042402	1
Caesar & Loretz	Cooling cream DAB	18182301	1
Caesar & Loretz	Cooling ointment DAB 6	18182401	1
Caesar & Loretz	Cooling cream DAB	18218302	2
Caesar Loretz	Cooling cream DAB	2001721001	1
Caesar und Loretz GmbH	Cooling cream DAB	17122801	1
Caesar und Loretz GmbH	Cooling ointment DAB 6	17157201	1
Caesar&Loretz/Noweda	Cooling cream DAB	15328001	1
Caesar&Loretz	Cooling cream DAB	15228501	2
Caesar&Loretz	Cooling cream DAB	16354401	2
Caesar&Loretz	Cooling ointment DAB 6	17298001	2
Caesar&Loretz	Cooling ointment DAB 6	19073802	1
Caesar/Gehe	Cooling cream DAB	19000582002	1
Caesar/Lorenz	Cooling cream DAB	13004401	1
CaesaruLorenzIPhoenix	Cooling cream DAB	15049201	1
Caeser&Loretz GmbH	Cooling cream DAB		1
Caeser&Loretz GmbH	Cooling ointment DAB 6	20001263002	2
Caeser&Loretz GmbH	Cooling cream DAB	20001722001	1
Caeser/Phönix	Cooling cream DAB	4223719	1
Caleo/ Ebert	Cooling cream DAB	18104601	1
Caleo/ Noweda	Cooling ointment DAB 6	18182901	1
Caleo/ Noweda	Cooling cream DAB	18273001	1
Caleo/Phoenix	Cooling ointment DAB 6	21001854001	1
Caleo/Phönix	Cooling cream DAB	14086501	1
Caleo	Cooling cream DAB	16246201	1
Calo, Hilden/ Phönix	Cooling cream DAB	19155001	3
Calo, Hilden/ Phönix	Cooling cream DAB	19237901	4
Calo/AHD	Cooling cream DAB	14328702	1
CALO/Sanacorp 030918	Cooling cream DAB	18183001	1
CALO/Sanacorp 0409	Cooling cream DAB	18182901	1
calo	Cooling cream DAB	13004701	2
Cealo / Anzag	Cooling cream DAB	220601(22000031001)	1
Cealo / Anzag	Cooling cream DAB	220906(22001373001)	1
Cealo / Noweda	Cooling cream DAB	20000335001	1
Cealo Phönix	Cooling cream DAB	21001233002	1
Cealo/ Anzag	Cooling cream DAB	307932	1
Cealo/ Noweda	Cooling cream DAB	14c06-t02010890	1
Cealo/ Noweda	Cooling cream DAB	15228501	1
Cealo/AHD	Cooling cream DAB	15434402	1
Cealo/AHD	Cooling ointment DAB 6	16011901	1
Cealo/Gehe	Cooling cream DAB	12052002	2
Cealo/Phönix	Cooling cream DAB	17330802	2
Cealo/Phönix	Cooling ointment DAB 6	19001402	1
Cealo/Sanacorp	Cooling cream DAB	19073701	1
Cealo	Cooling cream DAB	14086201	1
Cealo	Cooling cream DAB	14288701	1
cealo	Cooling cream DAB	15066901	1
Cealo	Cooling cream DAB	17157001	1
cealo	Cooling cream DAB	18182501	1
Cealo	Cooling ointment DAB 6	18182701	1
Cealo	Cooling cream DAB	19150201	1
Cealo	Cooling cream DAB	20001717001	1
Celo/ Kehr	Cooling cream DAB	16172001	1
chaelo/gehe	Cooling cream DAB	17254101	2
Chiesi	Cooling cream DAB	15228701	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Cordes/Gehe	Cooling cream DAB	17255101	1
Cordes/Phönix	Cooling cream DAB	15434402	1
DAB 2008	Cooling cream DAB	12089601	1
DAB 2010	Cooling cream DAB	14269301	1
Defektur	Cooling cream DAB	160308004	1
Delta Apotheke	Cooling cream DAB	18182301	1
Delta Apotheke	Cooling cream DAB	18182501	2
Delta	Cooling cream DAB	17330802	1
Delta	Cooling cream DAB	18042401	1
Devesa/S	Cooling ointment DAB 6	20001262001	1
Dr.August Wolff/Phönix	Cooling cream DAB	16172701	1
Dr.Wolff	Cooling cream DAB	17001971	1
E Plus	Cooling cream DAB	17001961	2
E Plus	Cooling cream DAB	305957	1
E Plus	Cooling cream DAB	307929	1
E Plus	Cooling cream DAB	309999	1
Ebert & Jacobi 02.08.16	Cooling cream DAB	301701	1
Ebert & Jacobi	Cooling cream DAB	17298701	1
Ebert/Lamotte	Cooling cream DAB	8002696003	1
Ebert	Cooling cream DAB	17075301	1
EB-Ho	Cooling cream DAB	295184	1
Euro OTC	Cooling cream DAB	13227101	1
Euro OTC	Cooling ointment DAB 6	15435101	2
Euro OTC	Cooling cream DAB	16129501	1
Euro OTC	Cooling cream DAB	16129701	1
Euro OTC	Cooling cream DAB	16134001	1
Euro OTC	Cooling cream DAB	16134201	1
Euro OTC	Cooling cream DAB	16172001	1
Euro OTC	Cooling ointment DAB 6	16172801	1
Euro OTC	Cooling ointment DAB 6	16172901	1
Euro OTC	Cooling cream DAB	16354401	1
Euro OTC	Cooling cream DAB	17000973	2
Euro OTC	Cooling cream DAB	17001969	1
Euro OTC	Cooling cream DAB	17075201	1
Euro OTC	Cooling cream DAB	17157201	2
Euro OTC	Cooling cream DAB	18005202	3
Euro OTC	Cooling cream DAB	18218301	2
Euro OTC	Cooling ointment DAB 6	18218601	1
Euro OTC	Cooling cream DAB	18273001	1
Euro OTC	Cooling cream DAB	19000333	1
Euro OTC	Cooling cream DAB	19001402	1
Euro OTC	Cooling cream DAB	19237101	1
Euro OTC	Cooling cream DAB	286563	1
Euro OTC	Cooling cream DAB	299976	1
Euro OTC	Cooling cream DAB	306931	1
Euro OTC	Cooling cream DAB	307358	1
Euro OTC	Cooling cream DAB	308491	1
Euro OTC	Cooling cream DAB	311218182501	1
Euro OTC	Cooling cream DAB	8003478007	1
Euro OTC	Cooling cream DAB	caelo	1
Euroct/Gehe	Cooling ointment DAB 6	16089701	2
Fagron	Cooling cream DAB	12G25-T02	2
Fagron	Cooling cream DAB	13D19-T01-002941	1
Fagron	Cooling cream DAB	13E10-T01-003539	2
Fagron	Cooling cream DAB	14132001	1
Fagron	Cooling cream DAB	14A20	1
Fagron	Cooling cream DAB	15228601	1
Fagron	Cooling cream DAB	15236801	1
Fagron	Cooling cream DAB	15A30-T07-018974	2
Fagron	Cooling cream DAB	15A30-T07-018975	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Cooling cream DAB	15L03-T06-028365	2
Fagron	Cooling cream DAB	16301801	1
Fagron	Cooling ointment DAB 6	17000301	1
Fagron	Cooling cream DAB	17075101	1
Fagron	Cooling cream DAB	1707D001	1
Fagron	Cooling cream DAB	17254101	1
Fagron	Cooling ointment DAB 6	18/182/K	1
Fagron	Cooling cream DAB	18002094	1
Fagron	Cooling cream DAB	18002243	1
Fagron	Cooling cream DAB	18002308	1
Fagron	Cooling cream DAB	18004427	1
Fagron	Cooling cream DAB	18005201	2
Fagron	Cooling cream DAB	1802D001	1
Fagron	Cooling cream DAB	1807d001	1
Fagron	Cooling cream DAB	1807D001	1
Fagron	Cooling ointment DAB 6	18106401	2
Fagron	Cooling ointment DAB 6	18182301	2
Fagron	Cooling cream DAB	18182401	1
Fagron	Cooling cream DAB	18183101	1
Fagron	Cooling cream DAB	18218601	1
Fagron	Cooling cream DAB	18218801	1
Fagron	Cooling cream DAB	18218901	1
Fagron	Cooling cream DAB	18219201	1
Fagron	Cooling cream DAB	18219301	1
Fagron	Cooling cream DAB	1909d001	1
Fagron	Cooling cream DAB	1909D001	1
Fagron	Cooling cream DAB	20003355	1
Fagron	Cooling cream DAB	20EAF/20	1
Fagron	Cooling cream DAB	277533	1
Fagron	Cooling cream DAB	289253	1
Fagron	Cooling cream DAB	299973	1
Fagron	Cooling cream DAB	304595	1
Fagron	Cooling cream DAB	7070001	1
Fagron	Cooling cream DAB	8003158004	1
Fagron	Cooling cream DAB	8003478004	3
Fagron	Cooling cream DAB	B15A30T07018676	1
Fer. Eimermacher GmbH &...	Cooling cream DAB	19074301	1
Fiebig ek: 9.07EUR	Cooling cream DAB	1204001	1
Fiebig/Lamotte	Cooling cream DAB	1000014594	1
Fiebig/Lamotte	Cooling cream DAB	8005213001	1
Fiebig	Cooling ointment DAB 6	17075101	1
Fiebig	Cooling cream DAB	17254601	1
Fiebig	Cooling cream DAB	17254901	3
Fiebig	Cooling cream DAB	17255101	2
Fiebig	Cooling cream DAB	18003172	1
Fiebig	Cooling cream DAB	18004427	1
Fiebig	Cooling cream DAB	18005203	1
Fiebig	Cooling cream DAB	18042801	1
Fiebig	Cooling ointment DAB 6	18182701	4
Fiebig	Cooling cream DAB	18218301	2
Fiebig	Cooling cream DAB	18218701	1
Fiebig	Cooling cream DAB	18219401	1
Fiebig	Cooling cream DAB	19000327	1
Fiebig	Cooling cream DAB	19001301	1
Fiebig	Cooling cream DAB	19001397	1
Fiebig	Cooling cream DAB	19001501	1
Fiebig	Cooling ointment DAB 6	19074301	1
Fiebig	Cooling cream DAB	19237701	1
Fiebig	Cooling cream DAB	20000333001	1
Fiebig	Cooling cream DAB	20001261001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Cooling cream DAB	6002062002	1
Fiebig	Cooling cream DAB	8002320007	1
Fiebig	Cooling cream DAB	8003478005	1
Finteler Apotheke	Cooling ointment DAB 6	16244701	1
Finteler Apotheke	Cooling ointment DAB 6	17000601	1
Fontapharm/Phönix	Cooling cream DAB	286565	1
GAlderma/Phönix	Cooling cream DAB	18004430	1
GEHE 3.04.2014	Cooling cream DAB	14055703	2
gehe 7.12.13	Cooling cream DAB	13226701	1
Gehe am 03.02.2014	Cooling cream DAB	1322701	1
GEHE Kassel 25.01.2019	Cooling cream DAB	18006322	1
Gehe/L10	Cooling cream DAB	18273101	1
Gehe	Cooling cream DAB	1000018293	1
Gehe	Cooling cream DAB	12292401	1
Gehe	Cooling ointment DAB 6	12312601	1
Gehe	Cooling cream DAB	12312801	1
Gehe	Cooling cream DAB	12364601	1
GEHE	Cooling cream DAB	12364801	1
Gehe	Cooling cream DAB	13004701	1
Gehe	Cooling cream DAB	13191501	1
gehe	Cooling cream DAB	13315102	1
Gehe	Cooling cream DAB	13315201	1
Gehe	Cooling cream DAB	14129402	1
Gehe	Cooling ointment DAB 6	14184501	1
Gehe	Cooling ointment DAB 6	14268301	1
Gehe	Cooling cream DAB	14329201	1
Gehe	Cooling cream DAB	14329301	1
Gehe	Cooling cream DAB	14329501	1
Gehe	Cooling cream DAB	15228502	1
gehe	Cooling ointment DAB 6	15228601	1
Gehe	Cooling cream DAB	15228801	1
Gehe	Cooling ointment DAB 6	15413601	1
Gehe	Cooling cream DAB	15417201	2
Gehe	Cooling cream DAB	15434402	1
Gehe	Cooling cream DAB	16085801	1
Gehe	Cooling cream DAB	16172601	2
Gehe	Cooling cream DAB	16244601	1
Gehe	Cooling cream DAB	16246201	1
Gehe	Cooling ointment DAB 6	16301901	1
Gehe	Cooling ointment DAB 6	16302001	1
Gehe	Cooling cream DAB	16354401	3
Gehe	Cooling cream DAB	17000223	1
Gehe	Cooling cream DAB	17002971	1
Gehe	Cooling ointment DAB 6	17035501	1
Gehe	Cooling cream DAB	17075101	1
Gehe	Cooling cream DAB	17075201	1
Gehe	Cooling cream DAB	171115601	1
gehe	Cooling cream DAB	17189701	1
Gehe	Cooling cream DAB	17254101	1
GEHE	Cooling cream DAB	17254101	1
Gehe	Cooling ointment DAB 6	17254201	2
Gehe	Cooling cream DAB	17254401	1
Gehe	Cooling cream DAB	17298501	1
Gehe	Cooling cream DAB	18003174	1
Gehe	Cooling cream DAB	18005206	1
Gehe	Cooling cream DAB	18005606	1
Gehe	Cooling cream DAB	18042401	1
GEHE	Cooling cream DAB	18042801	1
Gehe	Cooling cream DAB	18182301	4
Gehe	Cooling cream DAB	18182601	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
GEHE	Cooling cream DAB	18182702	1
GEHE	Cooling cream DAB	18183301	1
GEHE	Cooling cream DAB	18218701	1
Gehe	Cooling cream DAB	18218901	1
Gehe	Cooling cream DAB	19000331	1
GEHE	Cooling cream DAB	19000334	1
Gehe	Cooling cream DAB	19001402	2
Gehe	Cooling cream DAB	19002522	1
Gehe	Cooling cream DAB	19004562	1
Gehe	Cooling ointment DAB 6	19073701	3
Gehe	Cooling cream DAB	19073801	1
GEHE	Cooling cream DAB	19074401	1
GEHE	Cooling cream DAB	19074501	1
GEHE	Cooling cream DAB	19154701	1
Gehe	Cooling cream DAB	192376001	1
Gehe	Cooling cream DAB	20001624	1
Gehe	Cooling cream DAB	20001719001	1
Gehe	Cooling cream DAB	20001721001	1
Gehe	Cooling cream DAB	20002268	2
Gehe	Cooling cream DAB	20002955001	1
Gehe	Cooling cream DAB	20004342001	1
Gehe	Cooling cream DAB	21000664001	1
Gehe	Cooling cream DAB	21001948	1
Gehe	Cooling cream DAB	266839	2
Gehe	Cooling cream DAB	269093	2
Gehe	Cooling cream DAB	269098	3
Gehe	Cooling cream DAB	270314	1
Gehe	Cooling cream DAB	271535	1
Gehe	Cooling cream DAB	274044	2
Gehe	Cooling cream DAB	274909	2
Gehe	Cooling cream DAB	276283	3
Gehe	Cooling cream DAB	278518	1
Gehe	Cooling cream DAB	279681	2
Gehe	Cooling cream DAB	281036	1
Gehe	Cooling cream DAB	282020	1
Gehe	Cooling cream DAB	282022	1
Gehe	Cooling cream DAB	283053	1
Gehe	Cooling cream DAB	283114	1
Gehe	Cooling cream DAB	284300	1
Gehe	Cooling cream DAB	285066	1
Gehe	Cooling cream DAB	286565	1
Gehe	Cooling cream DAB	286650	1
Gehe	Cooling cream DAB	290485	2
Gehe	Cooling cream DAB	292278	1
Gehe	Cooling cream DAB	293618	1
Gehe	Cooling cream DAB	293677	1
Gehe	Cooling cream DAB	293678	1
Gehe	Cooling cream DAB	294121	1
Gehe	Cooling cream DAB	295023	1
Gehe	Cooling cream DAB	295123	1
GEHE	Cooling cream DAB	304594	1
GEHE	Cooling cream DAB	305953	1
Gehe	Cooling cream DAB	305961	1
GEHE	Cooling cream DAB	307933	1
Gehe	Cooling cream DAB	308723	5
GEHE	Cooling cream DAB	308725	1
GEHE	Cooling cream DAB	309370	1
Gehe	Cooling cream DAB	310986	1
Gehe	Cooling cream DAB	6001092001	3
Gehe	Cooling cream DAB	6001092002	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Cooling cream DAB	8002320007	1
Gehe	Cooling cream DAB	8002320008	1
Geibo/Lamotte 23.09.2021	Cooling cream DAB	1000015312	1
Geibo/Noweda	Cooling cream DAB	17298101	1
Gepepharm/ Gehe	Cooling ointment DAB 6	161/2601	1
GUMO	Cooling cream DAB	20005668	1
Gutenberg-Apotheke	Cooling cream DAB	84187	1
H. Lamotte	Cooling cream DAB	1000015312	2
Hedinger/Gehe	Cooling cream DAB	16134201	1
Hedinger	Cooling cream DAB	18218503	2
Hedinger	Cooling cream DAB	19001301	1
Henry L/Spangro	Cooling cream DAB	80026960003	1
Henry L/Spangro	Cooling cream DAB	8003158005	4
Henry L/Spangro	Cooling cream DAB	8003478005	6
Henry Lamortte	Cooling cream DAB	8005213002	1
Henry Lamotte / AHD	Cooling cream DAB	1000011853	1
Henry lamotte / Noweda	Cooling cream DAB	1000012828	1
Henry Lamotte Oils / Al...	Cooling cream DAB	6012127001	1
Henry Lamotte Oils / Gehe	Cooling cream DAB	8002875004	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	8003478005	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	8003478008	2
Henry Lamotte Oils GmbH...	Cooling cream DAB	1000012827	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	1000014594	2
Henry Lamotte Oils GmbH...	Cooling cream DAB	8003478004	1
Henry Lamotte oils GmbH...	Cooling cream DAB	8002320008	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	1000012827	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	1000016940	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	6002062002	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	8002320007	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	8003478006	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	8004538001	1
Henry Lamotte Oils GmbH...	Cooling cream DAB	8005213002	1
Henry Lamotte Oils GmbH	Cooling cream DAB	10000010942	1
HENRY LAMOTTE OILS GmbH	Cooling cream DAB	1000010941	1
Henry Lamotte Oils GmbH	Cooling ointment DAB 6	1000011853	2
Henry Lamotte Oils GmbH	Cooling cream DAB	1000011854	2
Henry Lamotte Oils GmbH	Cooling cream DAB	12292301	3
Henry Lamotte Oils GmbH	Cooling cream DAB	17001970	2
Henry Lamotte Oils GmbH	Cooling cream DAB	6012127001	2
Henry Lamotte Oils GmbH	Cooling cream DAB	8003158004	1
Henry Lamotte Oils GmbH	Cooling cream DAB	8003478004	1
HENRY LAMOTTE OILS GmbH	Cooling cream DAB	8003478004	1
Henry Lamotte Oils GmbH	Cooling cream DAB	8003478005	2
HENRY LAMOTTE OILS GmbH	Cooling cream DAB	8003478006	1
henry Lamotte Oils GmbH	Cooling cream DAB	8003478007	1
Henry Lamotte Oils GmbH	Cooling cream DAB	8003478010	1
Henry Lamotte Oils GmbH	Cooling cream DAB	8004538001	1
Henry Lamotte Oils GmbH	Cooling ointment DAB 6	8005213002	3
Henry Lamotte Oils/ Gehe	Cooling cream DAB	8003158004	2
Henry Lamotte Oils/GEHE	Cooling cream DAB	5407600	1
Henry Lamotte Oils/GEHE	Cooling cream DAB	5496200	1
Henry Lamotte Oils/GEHE	Cooling cream DAB	5600300	1
Henry Lamotte Oils/GEHE	Cooling cream DAB	5691200	1
Henry Lamotte Oils/GEHE	Cooling cream DAB	5735600	1
Henry Lamotte Oils/Gehe	Cooling cream DAB	8004538001	1
Henry Lamotte Oils	Cooling cream DAB	6001092001	1
Henry Lamotte Oils	Cooling cream DAB	6003682010	1
Henry Lamotte Oils	Cooling ointment DAB 6	8005213002	1
Henry Lamotte Olis GmbH...	Cooling cream DAB	1000011853	2
Henry Lamotte Olis GmbH...	Cooling cream DAB	1000012827	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Olis GmbH…	Cooling cream DAB	5600300	2
Henry Lamotte Olis GmbH	Cooling cream DAB	5735600	1
Henry lamotte/ Alliance	Cooling cream DAB	1000010942	1
Henry Lamotte/ Anzag	Cooling cream DAB	8002875004	1
Henry Lamotte/ Gehe	Cooling cream DAB	1000010941	1
Henry Lamotte/ Gehe	Cooling cream DAB	1000011853	3
Henry Lamotte/ Henry La…	Cooling ointment DAB 6	16171901	1
Henry Lamotte/Alliance	Cooling cream DAB	1000015312	1
Henry Lamotte/Anzag	Cooling cream DAB	8002320007	1
Henry Lamotte/GEHE	Cooling cream DAB	5163700	1
Henry Lamotte/GEHE	Cooling cream DAB	5316800	1
Henry Lamotte/GEHE	Cooling cream DAB	5321500	1
Henry Lamotte/GEHE	Cooling cream DAB	5407300	1
Henry Lamotte/Geilenkir…	Cooling cream DAB	8003478010	2
Henry Lamotte/N/19.11.12	Cooling cream DAB	5253700	1
Henry Lamotte/Now	Cooling cream DAB	8003158004	2
Henry Lamotte/Noweda	Cooling cream DAB	8003478005	1
Henry Lamotte/Noweda	Cooling cream DAB	8003478006	1
Henry Lamotte/Noweda	Cooling cream DAB	8005213002	2
Henry Lamotte/Phoenix	Cooling cream DAB	1000014594	1
Henry Lamotte/Phoenix	Cooling cream DAB	8005213002	1
Henry Lamotte/Phönix	Cooling cream DAB	1000015312	1
HENRY LAMOTTE/Phönix	Cooling cream DAB	6001092002	1
Henry Lamotte/Spangro	Cooling cream DAB	8002320007	1
Henry Lamotte	Cooling ointment DAB 6	1000010941	1
Henry Lamotte	Cooling cream DAB	1000010942	3
Henry Lamotte	Cooling cream DAB	1000011853	2
Henry Lamotte	Cooling cream DAB	1000012827	2
Henry Lamotte	Cooling cream DAB	1000014594	1
Henry Lamotte	Cooling cream DAB	1000015312	1
Henry Lamotte	Cooling cream DAB	1000018293	1
Henry Lamotte	Cooling cream DAB	14328702	1
Henry Lamotte	Cooling cream DAB	5407300	1
Henry Lamotte	Cooling cream DAB	5496300	1
Henry Lamotte	Cooling cream DAB	5691200	1
Henry Lamotte	Cooling cream DAB	5861000	1
Henry Lamotte	Cooling cream DAB	6000083005	2
Henry Lamotte	Cooling cream DAB	6001092001	2
Henry Lamotte	Cooling cream DAB	6003682010	1
Henry Lamotte	Cooling cream DAB	6012127001	2
Henry Lamotte	Cooling cream DAB	8002320007	1
Henry Lamotte	Cooling cream DAB	8002875004	1
Henry Lamotte	Cooling cream DAB	8003158004	3
Henry Lamotte	Cooling cream DAB	8003478006	2
Henry Lamotte	Cooling cream DAB	8005213001	5
Henry LamotteAlliance H…	Cooling cream DAB	1000014594	1
Henry LamotteAlliance H…	Cooling cream DAB	1000015312	1
Henry Lamtte Oils GmbH	Cooling cream DAB	6002062002	1
HenryFiebig	Cooling cream DAB	8003478007	1
HenryL/Spangro	Cooling cream DAB	61360	1
Hepart	Cooling cream DAB	16244701	2
Hepart	Cooling cream DAB	18042402	1
Herbasinica	Cooling cream DAB	14085901	1
hochhaus-Apotheke	Cooling ointment DAB 6	17033001	1
Hubert Müller	Cooling cream DAB	15417501	1
Hubertus Apotheke	Cooling ointment DAB 6	15236901	1
Ichthyol Gesellschaft	Cooling cream DAB	17254501	1
Ichthyol Geselschaft Co…	Cooling cream DAB	15327901	1
ichthyol/AHD	Cooling cream DAB	281921	2
Ichthyol/Phönix	Cooling ointment DAB 6	16172601	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol	Cooling cream DAB	16000801	1
Ichthyol	Cooling cream DAB	19000762	1
Ichthyol-Gesellschaft, ...	Cooling cream DAB	3036532	1
Ichthyol-Gesellschaft	Cooling cream DAB	16172601	1
Jenne/Bomba/17.03.20	Cooling cream DAB	19004561	1
Jenne	Cooling cream DAB	17298301	1
Jenne	Cooling ointment DAB 6	19073701	1
Jenne	Cooling cream DAB	20000244	1
Jenne	Cooling ointment DAB 6	20001621	1
Kehr.09.07.2020	Cooling cream DAB	20000243	1
Kehr.29.01.2020	Cooling cream DAB	19004568	1
Kehr/Henry Lamotte	Cooling cream DAB	1000010941	1
Kehr/Henry Lamotte	Cooling ointment DAB 6	1000012827	1
Kehr	Cooling cream DAB	17000986	1
Kehr	Cooling cream DAB	18182701	1
Kehr	Cooling cream DAB	301702	1
Kehr	Cooling cream DAB	8002875004	1
Klenk	Cooling cream DAB	13226801	1
Klenk	Cooling cream DAB	17033001	3
Klenk	Cooling cream DAB	17298301	1
Kremer/Phönix	Cooling cream DAB	15/158/K	1
Krieger am 23.05.2019	Cooling cream DAB	19001403	1
Krieger/Lamotte	Cooling cream DAB	6002062002	1
Krieger	Cooling cream DAB	1000015312	1
Krieger	Cooling cream DAB	20000335002	1
L12	Cooling cream DAB	16301801	4
L12	Cooling ointment DAB 6	17000601	2
L12	Cooling ointment DAB 6	17254101	3
L12	Cooling ointment DAB 6	17330802	1
L12	Cooling ointment DAB 6	18182501	1
Lamotte / AHC	Cooling ointment DAB 6	1000010942	1
Lamotte / AHC	Cooling cream DAB	8005213001	5
Lamotte / AHD	Cooling cream DAB	8003478004	1
Lamotte / Phoenix	Cooling cream DAB	1000016401	4
Lamotte / Phönix	Cooling cream DAB	6012127002	3
Lamotte Sanacorp	Cooling cream DAB	5496200	3
Lamotte Sanacorp	Cooling cream DAB	5600300	1
Lamotte/ Gehe	Cooling cream DAB	1000011853	1
Lamotte/ Gehe	Cooling cream DAB	1000012827	1
Lamotte/ Phönix	Cooling cream DAB	1000010942	1
Lamotte/ Phönix	Cooling cream DAB	1000011854	2
Lamotte/ Phönix	Cooling cream DAB	1000014595	4
Lamotte/ Phönix	Cooling cream DAB	5600300	1
Lamotte/AHC	Cooling cream DAB	1000012828	7
Lamotte/AHC	Cooling cream DAB	8002696003	1
Lamotte/AHD 27.03.17	Cooling cream DAB	8002320007	1
Lamotte/AHD	Cooling cream DAB	5600300	2
Lamotte/AHD	Cooling cream DAB	6000744001	2
Lamotte/AHD	Cooling cream DAB	6001092001	1
Lamotte/AHD	Cooling cream DAB	6012127002	1
Lamotte/AHD	Cooling cream DAB	8002696003	3
Lamotte/AHD	Cooling cream DAB	8002875004	2
Lamotte/AHD	Cooling cream DAB	8003478005	2
Lamotte/AHD	Cooling cream DAB	8003478007	2
Lamotte/AHD	Cooling cream DAB	8003478008	1
Lamotte/AHD	Cooling cream DAB	8003478009	1
Lamotte/AHD	Cooling cream DAB	8005213001	3
Lamotte/Alliance	Cooling cream DAB	15417201	1
Lamotte/Anzag	Cooling cream DAB	5496200	2
Lamotte/Anzag	Cooling cream DAB	6002062002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Anzag	Cooling cream DAB	6002062003	1
lamotte/anzag	Cooling cream DAB	8002112004	1
lamotte/anzag	Cooling cream DAB	8002320008	1
Lamotte/Ebert	Cooling cream DAB	6003682010	1
LAmotte/Gehe	Cooling cream DAB	1000010941	1
LAmotte/Gehe	Cooling cream DAB	20000244	1
LAmotte/Gehe	Cooling cream DAB	8005213002	3
Lamotte/Krieger	Cooling cream DAB	18006324	1
Lamotte/Krieger	Cooling cream DAB	8002875004	1
lamotte/Novatis	Cooling cream DAB	1000014594	1
Lamotte/Noweda	Cooling cream DAB	10000853	1
Lamotte/Noweda	Cooling cream DAB	6002062003	1
Lamotte/Noweda	Cooling ointment DAB 6	8002112004	1
Lamotte/Noweda	Cooling cream DAB	8002320008	1
Lamotte/Noweda	Cooling cream DAB	8004538001	2
Lamotte/Phoenix	Cooling cream DAB	1000010941	1
Lamotte/Phoenix	Cooling cream DAB	19238001	1
Lamotte/Phoenix	Cooling cream DAB	6012127001	1
Lamotte/Phoenix	Cooling cream DAB	8003478007	4
Lamotte/Phoenix	Cooling cream DAB	8003478008	7
Lamotte/Phoenix	Cooling cream DAB	8004538001	1
Lamotte/Phönix	Cooling ointment DAB 6	1000014595	1
Lamotte/Phönix	Cooling cream DAB	1000016941	3
Lamotte/Phönix	Cooling cream DAB	8002760004	1
Lamotte/Sana	Cooling cream DAB	10000153122	1
lamotte/sanacorb	Cooling cream DAB	5496200	1
Lamotte/Spangro	Cooling cream DAB	5735700	1
Lamotte/Spangro	Cooling cream DAB	5861100	12
Lamotte/Spangro	Cooling cream DAB	6001092002	8
Lamotte/Spangro	Cooling ointment DAB 6	6012127002	8
Lamotte/Spangro	Cooling ointment DAB 6	8002112004	11
Lamotte/Spangro	Cooling cream DAB	8002320008	2
Lamotte/Spangro	Cooling cream DAB	8002696003	8
LaMotte/Spangro	Cooling cream DAB	8002875004	2
Lamotte/Spangro	Cooling ointment DAB 6	8003478009	7
Lamotte/Spangroh	Cooling cream DAB	6000744001	3
Lamotte	Cooling cream DAB	1000010941	1
Lamotte	Cooling cream DAB	1000011853	1
Lamotte	Cooling cream DAB	13226601	1
Lamotte	Cooling cream DAB	19237101	1
Lamotte	Cooling cream DAB	5861000	1
Lamotte	Cooling cream DAB	600008306	1
Lamotte	Cooling cream DAB	6000744001	1
lamotte	Cooling cream DAB	8003158004	1
Lamotte	Cooling cream DAB	8003478007	2
Lamotte	Cooling cream DAB	8005213002	1
Lamotte	Cooling cream DAB	CH8003478005	1
Lanotte	Cooling cream DAB	1000010941	1
Maros/Phoenix	Cooling cream DAB	13191901	1
Midas	Cooling cream DAB	16244701	1
Midas	Cooling cream DAB	17000220	1
Midas	Cooling cream DAB	17000227	1
Midas	Cooling cream DAB	17033001	6
Midas	Cooling ointment DAB 6	17189701	4
Midas	Cooling cream DAB	17254201	1
Midas	Cooling cream DAB	18002090	2
Midas	Cooling cream DAB	18004426	2
Midas	Cooling cream DAB	18042401	1
Midas	Cooling cream DAB	18182401	1
Midas	Cooling ointment DAB 6	18182601	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Midas	Cooling ointment DAB 6	19001402	1
Midas	Cooling cream DAB	306938	1
Midas	Cooling cream DAB	308717	1
Midas	Cooling cream DAB	3100001	1
Nachprüfung	Cooling cream DAB	123456	1
Nachprüfung	Cooling ointment DAB 6	19000581001	1
Nachprüfung	Cooling cream DAB	AP220105-04	1
Noweda/Henry	Cooling cream DAB	8003478007	1
Noweda	Cooling cream DAB	1000010941	1
Noweda	Cooling cream DAB	12992301	1
Noweda	Cooling ointment DAB 6	13026301	1
Noweda	Cooling cream DAB	13121002	1
Noweda	Cooling cream DAB	13315101	1
Noweda	Cooling cream DAB	14085901	1
Noweda	Cooling cream DAB	14129801	2
Noweda	Cooling cream DAB	15066601	1
Noweda	Cooling cream DAB	15417201	1
Noweda	Cooling cream DAB	16000801	1
Noweda	Cooling cream DAB	16323101	1
Noweda	Cooling cream DAB	17000601	1
Noweda	Cooling cream DAB	17001967	1
Noweda	Cooling cream DAB	17075101	1
Noweda	Cooling ointment DAB 6	17075102	1
Noweda	Cooling ointment DAB 6	17081801	1
Noweda	Cooling ointment DAB 6	17122801	6
Noweda	Cooling cream DAB	17124901	2
Noweda	Cooling cream DAB	17157201	1
Noweda	Cooling cream DAB	17189701	1
Noweda	Cooling ointment DAB 6	17254101	1
Noweda	Cooling cream DAB	17254301	2
Noweda	Cooling cream DAB	17298101	1
Noweda	Cooling ointment DAB 6	17298701	1
Noweda	Cooling cream DAB	17330802	1
Noweda	Cooling cream DAB	18000339	2
Noweda	Cooling cream DAB	18001082	1
Noweda	Cooling cream DAB	18001085	1
Noweda	Cooling cream DAB	18002309	1
Noweda	Cooling cream DAB	18003753	1
Noweda	Cooling cream DAB	18005207	2
Noweda	Cooling cream DAB	18006322	1
Noweda	Cooling cream DAB	18042401	2
Noweda	Cooling ointment DAB 6	18042403	1
Noweda	Cooling cream DAB	18182501	1
Noweda	Cooling ointment DAB 6	18183201	1
Noweda	Cooling ointment DAB 6	18218302	3
Noweda	Cooling cream DAB	18218801	1
Noweda	Cooling cream DAB	18272901	1
Noweda	Cooling cream DAB	19000335	1
Noweda	Cooling cream DAB	19001301	1
Noweda	Cooling cream DAB	19001419	2
Noweda	Cooling cream DAB	19001420	1
Noweda	Cooling cream DAB	19003475	1
Noweda	Cooling cream DAB	19003477	1
Noweda	Cooling cream DAB	19004566	1
Noweda	Cooling cream DAB	19004569	1
Noweda	Cooling cream DAB	19073701	1
Noweda	Cooling ointment DAB 6	19073801	2
Noweda	Cooling cream DAB	19150201	2
Noweda	Cooling cream DAB	19153201	1
Noweda	Cooling ointment DAB 6	19155001	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Cooling ointment DAB 6	19155101	1
Noweda	Cooling cream DAB	20000248	3
Noweda	Cooling cream DAB	20000336001	1
Noweda	Cooling cream DAB	20000536	1
Noweda	Cooling cream DAB	20001259001	1
noweda	Cooling cream DAB	20001262001	2
Noweda	Cooling ointment DAB 6	20001262001	4
Noweda	Cooling ointment DAB 6	20001263001	1
Noweda	Cooling cream DAB	20001621	1
Noweda	Cooling cream DAB	20001721001	2
Noweda	Cooling cream DAB	20002073001	2
Noweda	Cooling cream DAB	20002074001	1
Noweda	Cooling cream DAB	20002950001	1
Noweda	Cooling ointment DAB 6	20004349001	1
Noweda	Cooling cream DAB	200172201	1
Noweda	Cooling cream DAB	21001854001	1
Noweda	Cooling cream DAB	21001855001	1
Noweda	Cooling cream DAB	274043	1
Noweda	Cooling cream DAB	276284	1
Noweda	Cooling cream DAB	306943	1
Noweda	Cooling cream DAB	8003478005	1
Noweda	Cooling cream DAB	8005213002	1
Otto Geilenkirchen	Cooling cream DAB	21000662001	1
Otto Geilenkirchen	Cooling cream DAB	21002378001	2
Pala	Cooling cream DAB	17298501	1
Pala	Cooling cream DAB	18042701	1
Pala	Cooling ointment DAB 6	18219201	1
Pala	Cooling cream DAB	18273101	1
Pala	Cooling cream DAB	19074201	1
Pala	Cooling ointment DAB 6	19150102	3
Pala	Cooling ointment DAB 6	19238001	2
Pharmachem/AHD	Cooling cream DAB	279680	1
phoenix /Hennry Lamotte	Cooling cream DAB	1000011853	1
Phoenix 07.12.18	Cooling cream DAB	18218601	1
Phoenix 20.06.2014	Cooling cream DAB	14086001	1
Phoenix/Labochemie APOLDA	Cooling ointment DAB 6	19000580001	1
Phoenix	Cooling ointment DAB 6	16000501	2
Phoenix	Cooling cream DAB	16085801	1
Phoenix	Cooling cream DAB	16086001	1
Phoenix	Cooling cream DAB	16134001	1
Phoenix	Cooling cream DAB	16172001	1
Phoenix	Cooling cream DAB	16172701	1
Phoenix	Cooling cream DAB	17038501	1
Phoenix	Cooling cream DAB	17075401	1
Phoenix	Cooling ointment DAB 6	17122701	1
Phoenix	Cooling ointment DAB 6	17157201	1
Phoenix	Cooling cream DAB	17189801	1
Phoenix	Cooling cream DAB	17254201	1
Phoenix	Cooling cream DAB	18000332	1
Phoenix	Cooling cream DAB	18002090	1
Phoenix	Cooling cream DAB	18005197	2
Phoenix	Cooling cream DAB	18042402	1
Phoenix	Cooling cream DAB	18104601	1
Phoenix	Cooling ointment DAB 6	18182301	2
Phoenix	Cooling cream DAB	18182701	1
Phoenix	Cooling cream DAB	18218301	1
Phoenix	Cooling cream DAB	18218901	1
Phoenix	Cooling cream DAB	19000575002	1
Phoenix	Cooling cream DAB	19001201	1
Phoenix	Cooling cream DAB	19001402	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Cooling cream DAB	19001414	1
Phoenix	Cooling cream DAB	19003476	1
Phoenix	Cooling ointment DAB 6	19073701	2
Phoenix	Cooling cream DAB	19074003	1
phoenix	Cooling cream DAB	19153201	1
Phoenix	Cooling cream DAB	19237701	2
Phoenix	Cooling cream DAB	19238001	1
Phoenix	Cooling cream DAB	20000227001	1
Phoenix	Cooling cream DAB	20000249	1
Phoenix	Cooling cream DAB	20000333001	1
Phoenix	Cooling cream DAB	21001855002	1
Phoenix	Cooling cream DAB	21003233	1
Phoenix	Cooling cream DAB	269094	1
Phoenix	Cooling ointment DAB 6	3042	1
Phoenix	Cooling cream DAB	3055	1
Phoenix	Cooling cream DAB	3059	1
Phoenix	Cooling cream DAB	306932	1
phoenix	Cooling cream DAB	308717	1
Phoenix	Cooling cream DAB	3120	1
Phoenix	Cooling cream DAB	3125	1
Phoenix	Cooling cream DAB	3374	1
Phoenix	Cooling cream DAB	Bombastus	1
Phönix 15.10.2019	Cooling cream DAB	19074201	1
Phönix 26.10.12	Cooling cream DAB	12187301	1
Phönix Gotha	Cooling cream DAB	12089501	1
Phönix Gotha	Cooling cream DAB	19004567	1
Phönix Gotha	Cooling cream DAB	SRTM1104	1
Phönix/Hedinger	Cooling ointment DAB 6	17254101	1
Phönix/Lamotte	Cooling cream DAB	6003682010	2
phönix	Cooling cream DAB	12292201	1
Phönix	Cooling cream DAB	12312101	2
phönix	Cooling cream DAB	12312102	1
Phönix	Cooling cream DAB	13051602	1
Phönix	Cooling cream DAB	13059501	1
Phönix	Cooling cream DAB	13059901	1
Phönix	Cooling cream DAB	13121701	1
Phönix	Cooling cream DAB	13191801	1
Phönix	Cooling cream DAB	13192101	1
Phönix	Cooling cream DAB	13226302	1
Phönix	Cooling cream DAB	13227401	1
Phönix	Cooling cream DAB	14055401	2
Phönix	Cooling cream DAB	14328801	1
phönix	Cooling ointment DAB 6	14329501	1
Phönix	Cooling cream DAB	14850901	1
Phönix	Cooling cream DAB	15434401	1
Phönix	Cooling ointment DAB 6	15434502	1
phönix	Cooling cream DAB	15435101	1
Phönix	Cooling cream DAB	17000501	1
phönix	Cooling cream DAB	17033001	1
Phönix	Cooling cream DAB	17033001	2
Phönix	Cooling ointment DAB 6	17075101	1
phönix	Cooling ointment DAB 6	17075201	1
phönix	Cooling ointment DAB 6	17156801	1
PHÖNIX	Cooling cream DAB	17254301	1
PHÖNIX	Cooling cream DAB	17254901	1
Phönix	Cooling ointment DAB 6	18104601	1
Phönix	Cooling cream DAB	18182401	1
Phönix	Cooling cream DAB	18182601	1
Phönix	Cooling ointment DAB 6	18218301	1
Phönix	Cooling cream DAB	18218601	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Cooling cream DAB	18272901	1
Phönix	Cooling ointment DAB 6	19000582002	1
Phönix	Cooling cream DAB	19001501	1
Phönix	Cooling cream DAB	19004564	1
Phönix	Cooling ointment DAB 6	19150201	2
Phönix	Cooling ointment DAB 6	19155001	4
Phönix	Cooling ointment DAB 6	19155202	2
Phönix	Cooling cream DAB	19237901	1
Phönix	Cooling cream DAB	20000333001	1
Phönix	Cooling cream DAB	20000334001	1
Phönix	Cooling ointment DAB 6	20001258001	1
PHÖNIX	Cooling ointment DAB 6	20001263002	1
Phönix	Cooling cream DAB	20001719001	2
PHÖNIX	Cooling cream DAB	20002273	1
Phönix	Cooling ointment DAB 6	20002951002	1
Phönix	Cooling ointment DAB 6	20002953001	1
Phönix	Cooling ointment DAB 6	20003305002	1
Phönix	Cooling ointment DAB 6	20004345001	1
Phönix	Cooling cream DAB	21003381001	1
Phönix	Cooling cream DAB	268978	1
Phönix	Cooling cream DAB	271541	1
Phönix	Cooling cream DAB	278516	2
Phönix	Cooling cream DAB	287486	1
Phönix	Cooling cream DAB	289188	1
Phönix	Cooling cream DAB	3178	1
Phönix	Cooling cream DAB	6012127001	2
Phönix	Cooling cream DAB	8003478006	1
Phönix	Cooling cream DAB	8003478007	4
PKH Halle/Noweda	Cooling cream DAB	4B221019	1
Puren / Phönix	Cooling cream DAB	19074201	1
Römerapo.	Cooling cream DAB	15328001	1
Römerapo.	Cooling cream DAB	18272801	1
Rondell Apotheke	Cooling cream DAB	15228601	1
Sana 29.12.14 EK 5,59	Cooling cream DAB	14268301	1
Sanacorp / Gehe	Cooling cream DAB	17001965	1
Sanacorp 08.03.2017 EK:...	Cooling cream DAB	16301801	1
Sanacorp W.E: 18.01.18 ...	Cooling ointment DAB 6	17157001	2
sanacorp, 9,51EUR, 27.09....	Cooling cream DAB	16172001	1
Sanacorp/Ebert	Cooling cream DAB	17156901	1
Sanacorp/Henry Lamotte ...	Cooling cream DAB	6002062002	1
Sanacorp/Henry Lamotte	Cooling cream DAB	6000083005	1
Sanacorp/Henry Lamotte	Cooling cream DAB	6003682010	3
sanacorp/ichthyol	Cooling cream DAB	16086001	1
sanacorp/Lamotte	Cooling cream DAB	5735600	1
Sanacorp	Cooling cream DAB		1
sanacorp	Cooling cream DAB	1000010941	1
sanacorp	Cooling cream DAB	1000011853	1
Sanacorp	Cooling cream DAB	12187201	1
Sanacorp	Cooling cream DAB	12187301	1
Sanacorp	Cooling cream DAB	12312401	1
Sanacorp	Cooling cream DAB	12312801	1
Sanacorp	Cooling cream DAB	13004401	2
Sanacorp	Cooling cream DAB	13059601	1
Sanacorp	Cooling cream DAB	13121001	1
Sanacorp	Cooling ointment DAB 6	13121601	1
Sanacorp	Cooling ointment DAB 6	13191301	1
Sanacorp	Cooling cream DAB	13192101	1
Sanacorp	Cooling cream DAB	13226501	1
Sanacorp	Cooling cream DAB	13226701	1
Sanacorp	Cooling cream DAB	13227001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Cooling cream DAB	13401801	1
Sanacorp	Cooling cream DAB	13402001	1
Sanacorp	Cooling cream DAB	14129402	1
Sanacorp	Cooling cream DAB	14145501	1
Sanacorp	Cooling cream DAB	14268101	1
Sanacorp	Cooling cream DAB	14268102	1
Sanacorp	Cooling cream DAB	14328801	2
Sanacorp	Cooling cream DAB	15049202	1
Sanacorp	Cooling ointment DAB 6	15066601	3
sanacorp	Cooling cream DAB	15228601	1
Sanacorp	Cooling cream DAB	15236902	1
Sanacorp	Cooling cream DAB	15413901	1
Sanacorp	Cooling cream DAB	16000201	1
Sanacorp	Cooling cream DAB	16085801	1
Sanacorp	Cooling cream DAB	16301801	1
Sanacorp	Cooling cream DAB	17000228	4
Sanacorp	Cooling cream DAB	17000984	1
Sanacorp	Cooling cream DAB	17001970	1
Sanacorp	Cooling cream DAB	17075101	1
Sanacorp	Cooling cream DAB	17157001	2
Sanacorp	Cooling cream DAB	17157301	1
Sanacorp	Cooling cream DAB	17189701	1
Sanacorp	Cooling cream DAB	17254501	1
Sanacorp	Cooling cream DAB	18000337	1
Sanacorp	Cooling cream DAB	18001077	1
Sanacorp	Cooling cream DAB	18002239	1
Sanacorp	Cooling cream DAB	18005199	1
sanacorp	Cooling cream DAB	18042401	1
Sanacorp	Cooling cream DAB	1812501	1
Sanacorp	Cooling ointment DAB 6	18182601	1
Sanacorp	Cooling ointment DAB 6	18218302	2
Sanacorp	Cooling cream DAB	18218503	1
Sanacorp	Cooling cream DAB	18218801	1
Sanacorp	Cooling ointment DAB 6	18272901	1
Sanacorp	Cooling cream DAB	182772901	1
Sanacorp	Cooling cream DAB	19000330	1
Sanacorp	Cooling cream DAB	19000582001	1
Sanacorp	Cooling cream DAB	19000583001	1
Sanacorp	Cooling ointment DAB 6	19001402	4
Sanacorp	Cooling cream DAB	19001501	1
Sanacorp	Cooling cream DAB	19002518	1
Sanacorp	Cooling cream DAB	19073701	1
Sanacorp	Cooling cream DAB	20000331001	1
Sanacorp	Cooling ointment DAB 6	20000333001	1
Sanacorp	Cooling cream DAB	20000334001	2
sanacorp	Cooling cream DAB	20001261001	1
Sanacorp	Cooling cream DAB	20002950001	1
Sanacorp	Cooling cream DAB	20004655	1
Sanacorp	Cooling cream DAB	21003388001	1
Sanacorp	Cooling cream DAB	274077	1
Sanacorp	Cooling cream DAB	281037	1
Sanacorp	Cooling cream DAB	307932	1
Sanacorp	Cooling cream DAB	6002062002	6
Sanacorp	Cooling cream DAB	6003682010	4
Sanacorp	Cooling cream DAB	73AKD4	1
Sanacorp	Cooling cream DAB	76/AKD3	1
Sanacorp	Cooling cream DAB	77/AKD10	1
Sanacorp	Cooling cream DAB	77/AKD6	1
Sonnen-Apotheke Wefensl...	Cooling cream DAB	17000971	2
Th. Geyer	Cooling cream DAB	18218901	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
VDL	Cooling cream DAB	12090501	1
WEPA Apothekenbedarf	Cooling cream DAB	18000336	1

- 285 975 spectra from 1323 *Apo-Ident* customers from a total of 50 974 batches from a further 342 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Cooling cream / Cooling cream with rose oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Cooling cream / Cooling cream with rose oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive/negative*) and the validation spectrum type (*A/B/C*).

	False positive	True positive	False negative	True negative
Type A	0	1200	0	67 299
Type B	0	5061	39	106 213
Type C	0	11 305	178	285 975

The substance/substance group *Cooling cream / Cooling cream with rose oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.5000 %)
Type B	100.0000 % (> 99.9678 %)	99.2353 % (> 99.1765 %)
Type C	100.0000 % (> 99.6875 %)	98.4499 % (> 98.4238 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Cooling cream / Cooling cream with rose oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Lanolin DAB	26.82	–
Basis Cordes® RK	35.43	–
Clotrimazole 10% Cordes® RK	42.79	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Cooling cream / Cooling cream with rose oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30889	31992	8.43	41.10
30890	32293	7.59	53.02
30921	31249	4.98	47.75
31052	31922	7.38	44.63
31224	31992	6.37	45.17
31249	31249	0.00	49.33
31922	31922	0.00	48.44
31992	31992	0.00	46.31
32293	32293	0.00	49.20
32294	32294	0.00	42.22
32506	32506	0.00	50.97
32507	32507	0.00	51.20
33180	33180	0.00	52.88
33779	33779	0.00	42.38
34499	31992	20.87	46.28
34500	31992	14.16	46.36
34501	31249	9.96	51.68
34502	33779	24.96	45.40
34973	34973	0.00	47.01
35230	35230	0.00	44.40
35231	35231	0.00	45.83
35233	35233	0.00	47.96
35234	35234	0.00	51.45
35235	35235	0.00	45.92

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Cordes® base solution**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`10004543-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Cordes® base solution

Special notes

When selecting the *Cordes® base solution* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Cordes® base solution	2	1	0

Second-stage model

For differentiation of the substance/substance group *Cordes® base solution* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Cordes® base solution*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Ichthyol	Cordes® base sol...	19B006	35072	40	20190819
Ichthyol	Cordes® base sol...	21B0004	35754	50	2202344

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 90 spectra of 2 reference samples from the substance/substance group *Cordes® base solution*. These samples are listed above in the *calibration samples* section. The reference samples come from 2 different batches.
- 68 409 spectra from a total of 1411 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Cordes® base solution*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Ichthyol	Cordes® base solution	20B0004	35106	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 0 spectra from 0 *Apo-Ident* customers from 0 batches from the substance/substance group *Cordes® base solution*.
- Among them are spectra of independent samples from 0 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.
- 297 458 spectra from 1324 *Apo-Ident* customers from a total of 52 987 batches from a further 344 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Cordes® base solution* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Cordes® base solution* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	90	0	68 409
Type B	0	40	0	111 273
Type C	0	0	0	297 458

The substance/substance group *Cordes® base solution* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9811 %)	100.0000 % (> 93.3333 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6899 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Cordes® base solution* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Ethanol 90%	82.81	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Cordes® base solution* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
35072	35754	31.95	118.08
35754	35754	0.00	99.18

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Coriander oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31192-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Coriander oil; Coriandri aetheroleum

Special notes

When selecting the *Coriander oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Coriander oil	5	3	78

Second-stage model

For differentiation of the substance/substance group *Coriander oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Coriander oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Coriander oil	12228509	31192	40	1407274
Caelo	Coriander oil	13288109	31407	40	20130903
Caelo	Coriander oil	170504	33913	40	20170228*
Caelo	Coriander oil	190810	34648	40	20190510*
Caelo	Coriander oil	20004201010	36394	40	20201209

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 200 spectra of 5 reference samples from the substance/substance group *Coriander oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 299 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Coriander oil*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Coriander oil	16140410	33253	40
Caelo	Coriander oil	181257	34056	40
Caelo	Coriander oil	192413	34994	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 373 spectra from 135 *Apo-Ident* customers from 80 batches from the substance/substance group *Coriander oil*.
- Among them are spectra of independent samples from 78 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD, 05.11.2013	Coriander oil	12228510	1
AHD, 19.07.2013	Coriander oil	12228507	1
AHD, 26.09.2013	Coriander oil	12228509	2
Alliance Healthcare	Coriander oil	17364701	1
Alliance	Coriander oil	192413001	2
Bauer/Noweda	Coriander oil	8008-52-4	1
Bauer/Noweda	Coriander oil	84775-50-8	1
Bombastus	Coriander oil	17050408	1
Bombastus	Coriander oil	18125703	2
Caelo	Coriander oil	10293307	1
Caelo	Coriander oil	11324002	1
Caelo	Coriander oil	11324003	1
Caelo	Coriander oil	11324004	1
Caelo	Coriander oil	11324005	4
Caelo	Coriander oil	12061413	1
Caelo	Coriander oil	12228501	1
Caelo	Coriander oil	12228503	2
Caelo	Coriander oil	12228509	1
Caelo	Coriander oil	13288109	4
Caelo	Coriander oil	13288112	4
Caelo	Coriander oil	13288113	1
Caelo	Coriander oil	14011403	1
Caelo	Coriander oil	14319902	3
Caelo	Coriander oil	14319904	4
Caelo	Coriander oil	152229601	1
Caelo	Coriander oil	15229601	7
Caelo	Coriander oil	15229605	3
Caelo	Coriander oil	15229607	3
Caelo	Coriander oil	15229608	2
Caelo	Coriander oil	15229610	3
Caelo	Coriander oil	15229613	3
Caelo	Coriander oil	161221OC/16140401	1
Caelo	Coriander oil	16140401	5
Caelo	Coriander oil	16140402	1
Caelo	Coriander oil	16140403	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Coriander oil	16140405	8
Caelo	Coriander oil	16140406	2
Caelo	Coriander oil	16140409	2
Caelo	Coriander oil	16140410	6
Caelo	Coriander oil	17050403	6
Caelo	Coriander oil	17050404	1
Caelo	Coriander oil	17050408	16
Caelo	Coriander oil	17050409	9
Caelo	Coriander oil	171120OC/17050403	1
Caelo	Coriander oil	17364701	11
Caelo	Coriander oil	17364702	9
Caelo	Coriander oil	18061201	1
Caelo	Coriander oil	18125703	19
Caelo	Coriander oil	18125704	5
Caelo	Coriander oil	18125705	8
Caelo	Coriander oil	18125708	10
Caelo	Coriander oil	18125709	3
Caelo	Coriander oil	19031022	1
Caelo	Coriander oil	190390404	1
Caelo	Coriander oil	190810001	4
Caelo	Coriander oil	19081002	31
Caelo	Coriander oil	19081002P-191022-2	1
Caelo	Coriander oil	19081003	20
Caelo	Coriander oil	190811003	1
Caelo	Coriander oil	192413001	9
Caelo	Coriander oil	192413002	20
Caelo	Coriander oil	192413004	4
Caelo	Coriander oil	192413005	9
Caelo	Coriander oil	192413006	6
Caelo	Coriander oil	19243002	1
Caelo	Coriander oil	20004199002	3
Caelo	Coriander oil	20004201001	3
Caelo	Coriander oil	20004201004	2
Caelo	Coriander oil	20004201005	6
Caelo	Coriander oil	20004201008	2
Caelo	Coriander oil	20004201009	2
Caelo	Coriander oil	2081306	1
Caelo	Coriander oil	22000198001	1
Caelo	Coriander oil	31081203	1
Caelo	Coriander oil	7021303	1
Caesar & Loretz GmbH/AHD	Coriander oil	20004199002	1
Caesar & Loretz GmbH/AHD	Coriander oil	20004201001	1
Caesar & Loretz GmbH/Ph...	Coriander oil	20004201001	1
Caesar & Loretz GmbH/Ph...	Coriander oil	2281523	1
Caesar & Loretz GmbH/sp...	Coriander oil	18125708	1
Caesar & Loretz GmbH	Coriander oil	18125703	2
Caesar & Loretz GmbH	Coriander oil	18125708	2
Caesar & Loretz GmbH	Coriander oil	18125709	2
Caesar & Loretz GmbH	Coriander oil	18125711	1
Caesar & Loretz GmbH	Coriander oil	190810001	1
Caesar & Loretz GmbH	Coriander oil	19081002	12
Caesar & Loretz GmbH	Coriander oil	19081003	2
Caesar & Loretz GmbH	Coriander oil	192413001	2
Caesar & Loretz GmbH	Coriander oil	192413002	1
Caesar & Loretz GmbH	Coriander oil	192413004	1
Caesar & Loretz GmbH	Coriander oil	192413005	3
Caesar & Loretz GmbH	Coriander oil	20004199002	1
Cealo/Sanacorp	Coriander oil	17364701	1
Coelo	Coriander oil	18125704	3
EuRho	Coriander oil	18125708	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
GEHE	Coriander oil	16140405	1
Kaders	Coriander oil	131528	1
Noweda	Coriander oil	11324005	1
Phoenix	Coriander oil	192413002	1
Phönix	Coriander oil	20004201009	1
Sanacorp	Coriander oil	16140406	1
Taoasis	Coriander oil	104709-125892	1
Taoasis	Coriander oil	106627-12220	1
Taoasis	Coriander oil	2020106627-13623	1
Taoasis	Coriander oil	31920-1111173	1
Taoasis	Coriander oil	32040-108625	1
Taoasis	Coriander oil	33485-112618	1
Taoasis	Coriander oil	99554HU-M07	1
VDl	Coriander oil	14319902	1

- 297 085 spectra from 1324 *Apo-Ident* customers from a total of 52 907 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Coriander oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Coriander oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	200	0	68 299
Type B	0	120	0	111 193
Type C	0	371	2	297 085

The substance/substance group *Coriander oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.4638 % (> 98.6595 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.

Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Coriander oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Lavender oil	46.28	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Coriander oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31192	31192	0.00	72.34
31407	33913	5.08	65.08
33913	33913	0.00	64.82
34648	34648	0.00	66.39
36394	31192	4.81	73.82

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Dexpanthenol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30884-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Dexpanthenol; Dexpanthenolum

Special notes

When selecting the *Dexpanthenol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Dexpanthenol	10	17	781

Second-stage model

For differentiation of the substance/substance group *Dexpanthenol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Dexpanthenol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Dexpanthenol	12018707	30884	40	20120207
Caelo	Dexpanthenol	14051903	31317	40	20140319
Caelo	Dexpanthenol	171721	33716	40	20170711*
Caelo	Dexpanthenol	172877	33903	40	20171109*
Caelo	Dexpanthenol	191068	34637	40	20190424*
Caelo	Dexpanthenol	190888	34639	40	20190410*
Euro OTC	Dexpanthenol	1309030-03	31532	60	AR-15-FG-005869-01
Euro OTC	Dexpanthenol	1510008	31769	57	20151102*
Fagron	Dexpanthenol	17B06-B04-332078	33239	40	20170315
Fagron	Dexpanthenol	19F10-B08-191442	34596	40	20190619

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 437 spectra of 10 reference samples from the substance/substance group *Dexpanthenol*. These samples are listed above in the *calibration samples* section. The reference samples come from 10 different batches.
- 68 062 spectra from a total of 1403 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 680 spectra of 17 reference samples from the substance/substance group *Dexpanthenol*.

- Among them are spectra of independent samples from 17 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Dexpanthenol	190087	34337	40
Caelo	Dexpanthenol	190101	34479	40
Caelo	Dexpanthenol	191070	34638	40
Caelo	Dexpanthenol	20004104	35298	40
Caelo	Dexpanthenol	22001745	36567	40
Euro OTC	Dexpanthenol	1606015	32465	40
Euro OTC	Dexpanthenol	1607027	32467	40
Euro OTC	Dexpanthenol	1610041	32829	40
Euro OTC	Dexpanthenol	1703029	33238	40
Euro OTC	Dexpanthenol	1708013	33664	40
Euro OTC	Dexpanthenol	1801011	33929	40
Euro OTC	Dexpanthenol	1803008	34090	40
Euro OTC	Dexpanthenol	1806019-01	34210	40
Euro OTC	Dexpanthenol	1808007	34217	40
Euro OTC	Dexpanthenol	2001014	34814	40
Euro OTC	Dexpanthenol	2001015	34815	40
Euro OTC	Dexpanthenol	2201030	36043	40

- 110 633 spectra from a total of 2649 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 4937 spectra from 998 *Apo-Ident* customers from 809 batches from the substance/substance group *Dexpanthenol*.

- Among them are spectra of independent samples from 779 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Dexpanthenol	13J29B05287527	1
	Dexpanthenol	13J29-B05-287527	6
	Dexpanthenol	1407039-02	2
	Dexpanthenol	17287705	1
14356201	Dexpanthenol	14356201	1
A.H.D.	Dexpanthenol	13D22-N12	1
A.H.D.	Dexpanthenol	14E01-B11-300068	1
ACM	Dexpanthenol	KNC0684J15	1
ACM	Dexpanthenol	KNC1152J15	1
AEP	Dexpanthenol	20004104005	1
AHC	Dexpanthenol	20004231003	1
AHD	Dexpanthenol	191835010	1
ALH	Dexpanthenol	1510008-02	1
Alliance H.	Dexpanthenol	15260905	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Alliance H.	Dexpanthenol	16311605	2
Alliance Health 03.12.2...	Dexpanthenol	1309030-03	1
Alliance Health 27.03.2...	Dexpanthenol	1407039-02	1
Alliance health	Dexpanthenol	1204010-01	1
Alliance	Dexpanthenol	1301009-01	1
Alliance	Dexpanthenol	15F26-B01-317520	2
Alliance	Dexpanthenol	15F26-B01-319991	1
Alliance	Dexpanthenol	16D07-B04-323097	1
Allianz	Dexpanthenol	1801011-01	2
Anzag	Dexpanthenol	12126705	2
Anzag	Dexpanthenol	12E11-N02	3
Anzag	Dexpanthenol	12H28-N07	1
Anzag	Dexpanthenol	12J30-B03-287502	1
Anzag	Dexpanthenol	12K27-N04	1
Anzag	Dexpanthenol	13/04-N04	1
Anzag	Dexpanthenol	13j29-B05-287527	1
anzag	Dexpanthenol	14E01-B11-293624	7
Anzag	Dexpanthenol	14E01-B11-295534	3
Anzag	Dexpanthenol	14H05-B02-300067	1
Anzag	Dexpanthenol	14H05-B02-305656	3
Anzag	Dexpanthenol	1610041-02	1
Anzag	Dexpanthenol	1703029	1
Anzag	Dexpanthenol	1708013-01	1
Anzag	Dexpanthenol	17335104	1
Anzag	Dexpanthenol	18197204	1
Anzag	Dexpanthenol	64778675LO	1
apo ident	Dexpanthenol	1703029-01	1
Apo Ident	Dexpanthenol	180300801	1
apomix	Dexpanthenol	14H05-B02-300066	1
apomix	Dexpanthenol	16D07-B04-323096	2
apomix	Dexpanthenol	180619-01	1
Bären Apotheke	Dexpanthenol	1703020-01	1
BASF AG/Noweda	Dexpanthenol	1510008-01	1
BASF AG/Noweda	Dexpanthenol	1607027-01	1
BASF AG/PHOENIX	Dexpanthenol	140703902	1
BASF AG	Dexpanthenol	1309030-01	1
BASF AG	Dexpanthenol	94515888Q0	1
BASF/ Phönix	Dexpanthenol	1502019-02	2
BASF/Noweda	Dexpanthenol	5116I-01082	1
BASF	Dexpanthenol	1407039-01	1
BASF	Dexpanthenol	2181	1
beyvers	Dexpanthenol	1703029-01	1
Bombastus	Dexpanthenol	13342605	1
Bombastus	Dexpanthenol	1502019-02	2
Bombastus	Dexpanthenol	16043506	2
Bombastus	Dexpanthenol	1803008-01	1
Bombastus	Dexpanthenol	1808007-01	1
Caeleo/ Kehr	Dexpanthenol	19134401	1
Caelo	Dexpanthenol		4
Caelo	Dexpanthenol	10869002	1
Caelo	Dexpanthenol	11293501	2
Caelo	Dexpanthenol	11293503	1
Caelo	Dexpanthenol	11293506	3
Caelo	Dexpanthenol	11293507	4
Caelo	Dexpanthenol	117M-01082	1
Caelo	Dexpanthenol	1193507	1
Caelo	Dexpanthenol	12018702	1
Caelo	Dexpanthenol	12018703	8
Caelo	Dexpanthenol	12018706	2
Caelo	Dexpanthenol	12018707	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol	12018713	4
Caelo	Dexpanthenol	12018715	1
Caelo	Dexpanthenol	12031602	1
Caelo	Dexpanthenol	12126702	13
Caelo	Dexpanthenol	12126704	5
Caelo	Dexpanthenol	12126705	11
Caelo	Dexpanthenol	12126706	1
Caelo	Dexpanthenol	12126707	2
Caelo	Dexpanthenol	1213A-01082	1
Caelo	Dexpanthenol	12285201	6
Caelo	Dexpanthenol	12285202	7
Caelo	Dexpanthenol	12285203	4
Caelo	Dexpanthenol	12285204	4
Caelo	Dexpanthenol	12285205	1
Caelo	Dexpanthenol	12285211	7
Caelo	Dexpanthenol	12285212	3
Caelo	Dexpanthenol	12285214	6
Caelo	Dexpanthenol	122852211	1
Caelo	Dexpanthenol	1235899	1
Caelo	Dexpanthenol	12E11-N02	1
Caelo	Dexpanthenol	12L28-N03	1
Caelo	Dexpanthenol	1301009-02	1
Caelo	Dexpanthenol	1302009	1
Caelo	Dexpanthenol	13021305	1
Caelo	Dexpanthenol	13022-N12	1
Caelo	Dexpanthenol	1304023	1
Caelo	Dexpanthenol	13084702	15
Caelo	Dexpanthenol	13084703	7
Caelo	Dexpanthenol	13084704	6
Caelo	Dexpanthenol	13084705	3
Caelo	Dexpanthenol	13084706	6
Caelo	Dexpanthenol	13084707	2
Caelo	Dexpanthenol	13084709	5
Caelo	Dexpanthenol	13084711	1
Caelo	Dexpanthenol	1309030-03	1
Caelo	Dexpanthenol	13091309	1
Caelo	Dexpanthenol	13189502	3
Caelo	Dexpanthenol	13189503	14
Caelo	Dexpanthenol	13189504	2
Caelo	Dexpanthenol	13189506	8
Caelo	Dexpanthenol	13342601	5
Caelo	Dexpanthenol	13342602	4
Caelo	Dexpanthenol	13342603	2
Caelo	Dexpanthenol	13342605	10
Caelo	Dexpanthenol	13342606	15
Caelo	Dexpanthenol	13342608	1
Caelo	Dexpanthenol	13342610	6
Caelo	Dexpanthenol	13342611	4
Caelo	Dexpanthenol	13J29-B05-287526	1
Caelo	Dexpanthenol	13J29B05-287528	1
Caelo	Dexpanthenol	14031410	1
Caelo	Dexpanthenol	14051901	1
Caelo	Dexpanthenol	14051903	5
Caelo	Dexpanthenol	14051904	7
Caelo	Dexpanthenol	14051905	8
Caelo	Dexpanthenol	14051908	1
Caelo	Dexpanthenol	14051909	2
Caelo	Dexpanthenol	14051913	1
Caelo	Dexpanthenol	1407039-01	2
Caelo	Dexpanthenol	142141508	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol	14214501	3
Caelo	Dexpanthenol	14214502	6
Caelo	Dexpanthenol	14214504	6
Caelo	Dexpanthenol	14214505	5
Caelo	Dexpanthenol	14214507	4
Caelo	Dexpanthenol	14214508	2
Caelo	Dexpanthenol	14214510	3
Caelo	Dexpanthenol	14214511	5
Caelo	Dexpanthenol	14214512	7
Caelo	Dexpanthenol	1421508	1
Caelo	Dexpanthenol	1435210	1
Caelo	Dexpanthenol	14356201	10
Caelo	Dexpanthenol	14356203	2
Caelo	Dexpanthenol	14356204	6
Caelo	Dexpanthenol	14356210	6
Caelo	Dexpanthenol	1457005	1
Caelo	Dexpanthenol	14E01-B11	1
Caelo	Dexpanthenol	14E01-B11-300068	3
Caelo	Dexpanthenol	14H05_B02_300069	1
Caelo	Dexpanthenol	14H05-B02-3000066	1
Caelo	Dexpanthenol	14H05-B02-300069	1
Caelo	Dexpanthenol	14H05-B02-305656	1
Caelo	Dexpanthenol	14I21-B01-340267	1
Caelo	Dexpanthenol	1502019	1
Caelo	Dexpanthenol	1502019-01	2
Caelo	Dexpanthenol	15071304	1
Caelo	Dexpanthenol	15097701	8
Caelo	Dexpanthenol	15097703	10
Caelo	Dexpanthenol	15097704	10
Caelo	Dexpanthenol	15097705	5
Caelo	Dexpanthenol	15097708	14
Caelo	Dexpanthenol	15097709	6
Caelo	Dexpanthenol	15097710	9
Caelo	Dexpanthenol	15097711	15
Caelo	Dexpanthenol	15097712	3
Caelo	Dexpanthenol	15097713	10
Caelo	Dexpanthenol	15097714	25
Caelo	Dexpanthenol	15097716	1
Caelo	Dexpanthenol	1510008-01	3
Caelo	Dexpanthenol	1513F-01082	1
Caelo	Dexpanthenol	15260901	2
Caelo	Dexpanthenol	15260905	10
Caelo	Dexpanthenol	15260906	13
Caelo	Dexpanthenol	15260907	9
Caelo	Dexpanthenol	15260908	1
Caelo	Dexpanthenol	15395502	12
Caelo	Dexpanthenol	15395504	9
Caelo	Dexpanthenol	15395506	3
Caelo	Dexpanthenol	15395507	5
Caelo	Dexpanthenol	15395508	10
Caelo	Dexpanthenol	1560907	1
Caelo	Dexpanthenol	15F26-B01-317520	1
Caelo	Dexpanthenol	16021307	1
Caelo	Dexpanthenol	1604305	1
Caelo	Dexpanthenol	16043502	12
Caelo	Dexpanthenol	16043503	11
Caelo	Dexpanthenol	16043504	4
Caelo	Dexpanthenol	16043505	10
Caelo	Dexpanthenol	16043506	10
Caelo	Dexpanthenol	16043510	16

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol	16043511	14
Caelo	Dexpanthenol	16043512	13
Caelo	Dexpanthenol	1606015-01	1
Caelo	Dexpanthenol	1610041-01	4
Caelo	Dexpanthenol	16101305	1
Caelo	Dexpanthenol	16164802	3
Caelo	Dexpanthenol	16164808	11
Caelo	Dexpanthenol	16164809	10
Caelo	Dexpanthenol	16164810	12
Caelo	Dexpanthenol	16164811	4
Caelo	Dexpanthenol	16164813	17
Caelo	Dexpanthenol	16164816	2
Caelo	Dexpanthenol	1616488	1
Caelo	Dexpanthenol	16311603	12
Caelo	Dexpanthenol	16311604	14
Caelo	Dexpanthenol	16311605	19
Caelo	Dexpanthenol	16311606	5
Caelo	Dexpanthenol	16311608	2
Caelo	Dexpanthenol	16311610	10
Caelo	Dexpanthenol	16311611	2
Caelo	Dexpanthenol	16D07-804-322508	1
Caelo	Dexpanthenol	16D07-B04-322110	1
Caelo	Dexpanthenol	16Do07-B04-323096	1
Caelo	Dexpanthenol	1703029-01	2
Caelo	Dexpanthenol	17065403	6
Caelo	Dexpanthenol	17065404	15
Caelo	Dexpanthenol	17065405	7
Caelo	Dexpanthenol	17065406	15
Caelo	Dexpanthenol	170654060	1
Caelo	Dexpanthenol	17065407	5
Caelo	Dexpanthenol	17065410	2
Caelo	Dexpanthenol	17065411	19
Caelo	Dexpanthenol	17065412	20
Caelo	Dexpanthenol	17065413	3
Caelo	Dexpanthenol	1708013-01	1
Caelo	Dexpanthenol	171172107	1
Caelo	Dexpanthenol	1717203	1
Caelo	Dexpanthenol	17172102	2
Caelo	Dexpanthenol	17172103	22
Caelo	Dexpanthenol	17172105	13
Caelo	Dexpanthenol	17172106	24
Caelo	Dexpanthenol	17172107	17
Caelo	Dexpanthenol	17172110	5
Caelo	Dexpanthenol	17172111	14
Caelo	Dexpanthenol	17172112	10
Caelo	Dexpanthenol	17172113	11
Caelo	Dexpanthenol	172587709	1
Caelo	Dexpanthenol	17287701	4
Caelo	Dexpanthenol	17287702	5
Caelo	Dexpanthenol	17287703	1
Caelo	Dexpanthenol	17287704	24
Caelo	Dexpanthenol	17287705	23
Caelo	Dexpanthenol	17287707	16
Caelo	Dexpanthenol	17287708	12
Caelo	Dexpanthenol	17287709	5
Caelo	Dexpanthenol	17335101	4
Caelo	Dexpanthenol	17335102	3
Caelo	Dexpanthenol	17335103	17
Caelo	Dexpanthenol	17335104	15
Caelo	Dexpanthenol	17335105	28

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol	17335106	34
Caelo	Dexpanthenol	17335106P-180827-8	1
Caelo	Dexpanthenol	17335107	6
Caelo	Dexpanthenol	17335108	39
Caelo	Dexpanthenol	17335110	2
Caelo	Dexpanthenol	17335114	1
Caelo	Dexpanthenol	17336104	1
Caelo	Dexpanthenol	17339106	1
Caelo	Dexpanthenol	1735105	1
Caelo	Dexpanthenol	17355108	1
Caelo	Dexpanthenol	17B06-B04-332076	1
Caelo	Dexpanthenol	17B06-B04-332078	2
Caelo	Dexpanthenol	17K30-B01-343821	2
Caelo	Dexpanthenol	17l21-B01-340264	1
Caelo	Dexpanthenol	17l21-b01-340266	1
Caelo	Dexpanthenol	18009109	1
Caelo	Dexpanthenol	1801011-01	5
Caelo	Dexpanthenol	18011303	1
Caelo	Dexpanthenol	1806001	1
Caelo	Dexpanthenol	1806019-01	1
Caelo	Dexpanthenol	1806103	1
Caelo	Dexpanthenol	180669107	1
Caelo	Dexpanthenol	18069001	36
Caelo	Dexpanthenol	18069002	19
Caelo	Dexpanthenol	18069003	1
Caelo	Dexpanthenol	18069101	1
Caelo	Dexpanthenol	18069103	4
Caelo	Dexpanthenol	18069107	18
Caelo	Dexpanthenol	18069110	18
Caelo	Dexpanthenol	18069110P-181228-3	1
Caelo	Dexpanthenol	18069110P-190226-7	1
Caelo	Dexpanthenol	1808007-01	2
Caelo	Dexpanthenol	18111306	1
Caelo	Dexpanthenol	18176602	3
Caelo	Dexpanthenol	18176603	2
Caelo	Dexpanthenol	18176605	9
Caelo	Dexpanthenol	181835012	1
Caelo	Dexpanthenol	181972004	1
Caelo	Dexpanthenol	18197201	4
Caelo	Dexpanthenol	18197202	34
Caelo	Dexpanthenol	181972020	1
Caelo	Dexpanthenol	18197202P-181107-1	1
Caelo	Dexpanthenol	18197203	29
Caelo	Dexpanthenol	18197204	43
Caelo	Dexpanthenol	1897203	1
Caelo	Dexpanthenol	18c20-b07-349242	1
Caelo	Dexpanthenol	18C20-B07-350625	1
Caelo	Dexpanthenol	18C20-B07-351396	1
Caelo	Dexpanthenol	18C20-B07-353895	1
Caelo	Dexpanthenol	18c20-b07-353896	1
Caelo	Dexpanthenol	18C20-B07-50625	1
Caelo	Dexpanthenol	18L25-B04-357388	1
Caelo	Dexpanthenol	190000648004	2
Caelo	Dexpanthenol	190000651001	1
Caelo	Dexpanthenol	190006480003	1
Caelo	Dexpanthenol	19000648003	17
Caelo	Dexpanthenol	19000648004	21
Caelo	Dexpanthenol	19000648005	10
Caelo	Dexpanthenol	19006705	1
Caelo	Dexpanthenol	190067067	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol	19008701	2
Caelo	Dexpanthenol	19008703	11
Caelo	Dexpanthenol	19008704	8
Caelo	Dexpanthenol	19008705	8
Caelo	Dexpanthenol	19008706	12
Caelo	Dexpanthenol	19008707	13
Caelo	Dexpanthenol	19008707P-190325-5	1
Caelo	Dexpanthenol	19008708	11
Caelo	Dexpanthenol	19016808	1
Caelo	Dexpanthenol	19045002	1
Caelo	Dexpanthenol	19045004	11
Caelo	Dexpanthenol	19045005	7
Caelo	Dexpanthenol	19045006	5
Caelo	Dexpanthenol	19045007	9
Caelo	Dexpanthenol	19045008	5
Caelo	Dexpanthenol	19062101	2
Caelo	Dexpanthenol	19062102	17
Caelo	Dexpanthenol	19062102P-190516-3	1
Caelo	Dexpanthenol	19062103	17
Caelo	Dexpanthenol	190621206	1
Caelo	Dexpanthenol	19065801	7
Caelo	Dexpanthenol	19065801P-190516-4	1
Caelo	Dexpanthenol	19065802	5
Caelo	Dexpanthenol	19065804	13
Caelo	Dexpanthenol	1906807	1
Caelo	Dexpanthenol	1908708	1
Caelo	Dexpanthenol	19088801	34
Caelo	Dexpanthenol	19088802	5
Caelo	Dexpanthenol	19088803	4
Caelo	Dexpanthenol	1910606810	1
Caelo	Dexpanthenol	19106802	8
Caelo	Dexpanthenol	19106803	36
Caelo	Dexpanthenol	19106804	12
Caelo	Dexpanthenol	19106805	26
Caelo	Dexpanthenol	19106806	20
Caelo	Dexpanthenol	19106807	18
Caelo	Dexpanthenol	19106808	26
Caelo	Dexpanthenol	19106809	17
Caelo	Dexpanthenol	19106810	9
Caelo	Dexpanthenol	1910684	1
Caelo	Dexpanthenol	19106901	13
Caelo	Dexpanthenol	191069010	1
Caelo	Dexpanthenol	19106902	21
Caelo	Dexpanthenol	191070002	1
Caelo	Dexpanthenol	19107001	21
Caelo	Dexpanthenol	19107002	22
Caelo	Dexpanthenol	19107003	1
Caelo	Dexpanthenol	19107004	10
Caelo	Dexpanthenol	19121204	1
Caelo	Dexpanthenol	19121205	1
Caelo	Dexpanthenol	191344	2
Caelo	Dexpanthenol	191344001	5
Caelo	Dexpanthenol	19134401	10
Caelo	Dexpanthenol	19134402	1
Caelo	Dexpanthenol	19134404	3
Caelo	Dexpanthenol	19134405	9
Caelo	Dexpanthenol	19134406	26
Caelo	Dexpanthenol	1914406	1
Caelo	Dexpanthenol	19166805	1
Caelo	Dexpanthenol	1917001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol	191835	1
Caelo	Dexpanthenol	191835001	3
Caelo	Dexpanthenol	191835002	1
Caelo	Dexpanthenol	191835003	27
Caelo	Dexpanthenol	191835004	26
Caelo	Dexpanthenol	191835005	18
Caelo	Dexpanthenol	191835007	2
Caelo	Dexpanthenol	191835008	13
Caelo	Dexpanthenol	191835008P-200514-4	1
Caelo	Dexpanthenol	191835009	12
Caelo	Dexpanthenol	19183501	15
Caelo	Dexpanthenol	191835010	25
Caelo	Dexpanthenol	191835011	17
Caelo	Dexpanthenol	191835012	22
Caelo	Dexpanthenol	191835013	20
Caelo	Dexpanthenol	19183502	24
Caelo	Dexpanthenol	19183502P-200206-6	1
Caelo	Dexpanthenol	19183503	1
Caelo	Dexpanthenol	19183504	1
Caelo	Dexpanthenol	19197203	1
Caelo	Dexpanthenol	19835008	1
Caelo	Dexpanthenol	19H20-B06-194493	2
Caelo	Dexpanthenol	200001457004	1
Caelo	Dexpanthenol	200001457006	1
Caelo	Dexpanthenol	200004231001	1
Caelo	Dexpanthenol	20001457001	1
Caelo	Dexpanthenol	20001457002	1
Caelo	Dexpanthenol	20001457003	2
Caelo	Dexpanthenol	20001457004	13
Caelo	Dexpanthenol	20001457005	15
Caelo	Dexpanthenol	20001457006	14
Caelo	Dexpanthenol	20001457008	22
Caelo	Dexpanthenol	20002329003	1
Caelo	Dexpanthenol	200041004010	1
Caelo	Dexpanthenol	200041005	1
Caelo	Dexpanthenol	20004104001	1
Caelo	Dexpanthenol	20004104002	2
Caelo	Dexpanthenol	20004104004	6
Caelo	Dexpanthenol	20004104005	27
Caelo	Dexpanthenol	20004104006	22
Caelo	Dexpanthenol	20004104007	14
Caelo	Dexpanthenol	20004104010	10
Caelo	Dexpanthenol	20004104012	1
Caelo	Dexpanthenol	20004104013	11
Caelo	Dexpanthenol	20004104014	25
Caelo	Dexpanthenol	20004104015	4
Caelo	Dexpanthenol	20004231001	9
Caelo	Dexpanthenol	20004231003	17
Caelo	Dexpanthenol	20004231007	18
Caelo	Dexpanthenol	200101501	1
Caelo	Dexpanthenol	2001015-01	2
Caelo	Dexpanthenol	2001457004	2
Caelo	Dexpanthenol	2001457008	2
Caelo	Dexpanthenol	2004104005	1
Caelo	Dexpanthenol	2004231001	2
Caelo	Dexpanthenol	2004231007	1
Caelo	Dexpanthenol	20061203	1
Caelo	Dexpanthenol	20071205	1
Caelo	Dexpanthenol	200773107	1
Caelo	Dexpanthenol	20121301	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol	20261012-1	1
Caelo	Dexpanthenol	20D16-T16-080048	6
Caelo	Dexpanthenol	21002144002	5
Caelo	Dexpanthenol	21002144003	1
Caelo	Dexpanthenol	21002144005	2
Caelo	Dexpanthenol	21002144007	2
Caelo	Dexpanthenol	21002144008	11
Caelo	Dexpanthenol	2101303	1
Caelo	Dexpanthenol	2187	1
Caelo	Dexpanthenol	22011511	1
Caelo	Dexpanthenol	22021304	1
Caelo	Dexpanthenol	23041401	1
Caelo	Dexpanthenol	23081602	1
Caelo	Dexpanthenol	23081603	1
Caelo	Dexpanthenol	24111201	1
Caelo	Dexpanthenol	25021405	1
Caelo	Dexpanthenol	25031305	1
Caelo	Dexpanthenol	25101203	1
Caelo	Dexpanthenol	26081401	1
Caelo	Dexpanthenol	2614E-01082	1
Caelo	Dexpanthenol	27041801	1
Caelo	Dexpanthenol	27335103	1
Caelo	Dexpanthenol	30041803	1
Caelo	Dexpanthenol	3051305	1
Caelo	Dexpanthenol	3101202	1
Caelo	Dexpanthenol	3121303	1
Caelo	Dexpanthenol	3280	1
Caelo	Dexpanthenol	3383488Q0	1
Caelo	Dexpanthenol	3432	1
Caelo	Dexpanthenol	3713A-01082	1
Caelo	Dexpanthenol	3815464	1
Caelo	Dexpanthenol	4031502	1
Caelo	Dexpanthenol	4082001	1
Caelo	Dexpanthenol	4121701	1
Caelo	Dexpanthenol	4128200041045	1
Caelo	Dexpanthenol	5061306	1
Caelo	Dexpanthenol	8069002	1
Caelo	Dexpanthenol	82729498	1
Caelo	Dexpanthenol	90006480031	1
Caelo	Dexpanthenol	9008707	1
Caelo	Dexpanthenol	9081206	1
Caelo	Dexpanthenol	91(18197202)	1
Caelo	Dexpanthenol	92(20001457005)	1
Caelo	Dexpanthenol	B191835003	1
Caelo	Dexpanthenol	B191835005	1
Caelo	Dexpanthenol	TL01110076	1
Caelo	Dexpanthenol	TL01503022	1
Caelo	Dexpanthenol	TL01508051	1
Caelo	Dexpanthenol	TL01808073	1
Caeol/Phönix	Dexpanthenol	17287704	3
Caeol/Sanacorp	Dexpanthenol	20004104005	4
Caesar & Lorenz GmbH	Dexpanthenol	19000648003	1
Caesar & Lorenz GmbH	Dexpanthenol	19106807	1
Caesar & Lorenz GmbH	Dexpanthenol	19107002	1
Caesar & Lorenz GmbH	Dexpanthenol	19183501	1
Caesar & Lorenz GmbH	Dexpanthenol	19183502	1
Caesar & Loretz GmbH / ...	Dexpanthenol	19045004	1
Caesar & Loretz GmbH / ...	Dexpanthenol	191835003	1
Caesar & Loretz GmbH / ...	Dexpanthenol	20004231003	1
Caesar & Loretz GmbH / ...	Dexpanthenol	19000651001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH / ...	Dexpanthenol	19088801	2
Caesar & Loretz GmbH / ...	Dexpanthenol	19106804	1
Caesar & Loretz GmbH / ...	Dexpanthenol	191835004	1
Caesar & Loretz GmbH / ...	Dexpanthenol	19107002	1
Caesar & Loretz GmbH / ...	Dexpanthenol	18069107	1
Caesar & Loretz GmbH / ...	Dexpanthenol	19107001	1
Caesar & Loretz GmbH /F...	Dexpanthenol	191835004	1
Caesar & Loretz GmbH Hi...	Dexpanthenol	15097714	2
Caesar & Loretz GmbH Sa...	Dexpanthenol	20001457006	1
Caesar & Loretz GmbH, P...	Dexpanthenol	19106806	1
Caesar & Loretz GmbH/ G...	Dexpanthenol	20001457008	1
Caesar & Loretz GmbH/ G...	Dexpanthenol	20004104014	2
Caesar & Loretz GmbH/ G...	Dexpanthenol	21002144008	1
Caesar & Loretz GmbH/ J...	Dexpanthenol	19000648003	1
Caesar & Loretz GmbH/ J...	Dexpanthenol	20001457005	1
Caesar & Loretz GmbH/ J...	Dexpanthenol	21002144003	2
Caesar & Loretz GmbH/ K...	Dexpanthenol	19000648005	1
Caesar & Loretz GmbH/ K...	Dexpanthenol	19106807	2
Caesar & Loretz GmbH/AEP	Dexpanthenol	21002144008	1
Caesar & Loretz GmbH/AHD	Dexpanthenol	19106807	1
Caesar & Loretz GmbH/AHD	Dexpanthenol	20001457005	1
Caesar & Loretz GmbH/AHD	Dexpanthenol	20001457008	1
Caesar & Loretz GmbH/AHD	Dexpanthenol	20016-T16-080049	1
Caesar & Loretz GmbH/AHD	Dexpanthenol	T16-0800409	2
Caesar & Loretz GmbH/An...	Dexpanthenol	19106804	1
Caesar & Loretz GmbH/AN...	Dexpanthenol	19106804	1
Caesar & Loretz GmbH/E	Dexpanthenol	19106807	1
Caesar & Loretz GmbH/Fi...	Dexpanthenol	19106810	1
Caesar & Loretz GmbH/Fi...	Dexpanthenol	191835012	1
Caesar & Loretz GmbH/Fi...	Dexpanthenol	20001457008	2
Caesar & Loretz GmbH/Gehe	Dexpanthenol	19000648003	1
Caesar & Loretz GmbH/Gehe	Dexpanthenol	19008707	1
Caesar & Loretz GmbH/Gehe	Dexpanthenol	19106902	1
Caesar & Loretz GmbH/GEHE	Dexpanthenol	19106902	1
Caesar & Loretz GmbH/Gehe	Dexpanthenol	19107002	1
Caesar & Loretz GmbH/Gehe	Dexpanthenol	191835004	1
Caesar & Loretz GmbH/GEHE	Dexpanthenol	191835009	1
Caesar & Loretz GmbH/Gehe	Dexpanthenol	191835013	3
Caesar & Loretz GmbH/Gehe	Dexpanthenol	20004104006	1
Caesar & Loretz GmbH/Gehe	Dexpanthenol	20004104013	2
Caesar & Loretz GmbH/Gehe	Dexpanthenol	20004231003	1
Caesar & Loretz GmbH/Gehe	Dexpanthenol	21002144007	1
Caesar & Loretz GmbH/Je...	Dexpanthenol	19134404	1
Caesar & Loretz GmbH/Je...	Dexpanthenol	191835008	2
Caesar & Loretz GmbH/Je...	Dexpanthenol	20004231007	1
Caesar & Loretz GmbH/Kehr	Dexpanthenol	19106901	1
Caesar & Loretz GmbH/Kehr	Dexpanthenol	191835009	1
Caesar & Loretz GmbH/Kehr	Dexpanthenol	19183501	4
Caesar & Loretz GmbH/Kr...	Dexpanthenol	19106901	1
Caesar & Loretz GmbH/Kr...	Dexpanthenol	19107002	1
Caesar & Loretz GmbH/Kr...	Dexpanthenol	20004104006	1
Caesar & Loretz GmbH/No...	Dexpanthenol	19000648004	2
Caesar & Loretz GmbH/No...	Dexpanthenol	19106805	1
Caesar & Loretz GmbH/No...	Dexpanthenol	19106806	1
Caesar & Loretz GmbH/No...	Dexpanthenol	19106808	1
Caesar & Loretz GmbH/No...	Dexpanthenol	19107001	1
Caesar & Loretz GmbH/No...	Dexpanthenol	19183502	4
Caesar & Loretz GmbH/No...	Dexpanthenol	20004104007	1
Caesar & Loretz GmbH/No...	Dexpanthenol	20004104010	1
Caesar & Loretz GmbH/Phoe	Dexpanthenol	191835011	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Ph...	Dexpanthenol	19106806	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol	20004104006	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol	190000648005	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol	19106806	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol	19134401	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol	19183501	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol	191835010	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol	20001457008	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol	20004104013	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol	20004231003	1
Caesar & Loretz GmbH/Sana	Dexpanthenol	191835010	1
Caesar & Loretz GmbH/Sa...	Dexpanthenol	19106803	1
Caesar & Loretz GmbH/Sa...	Dexpanthenol	19106901	1
Caesar & Loretz GmbH/Sa...	Dexpanthenol	1918350005	1
Caesar & Loretz GmbH/Sa...	Dexpanthenol	20001457004	1
Caesar & Loretz GmbH	Dexpanthenol	18069001	1
Caesar & Loretz GmbH	Dexpanthenol	18069002	1
Caesar & Loretz GmbH	Dexpanthenol	18069110	1
Caesar & Loretz GmbH	Dexpanthenol	18197204	1
Caesar & Loretz GmbH	Dexpanthenol	18J25-B04-357387	1
Caesar & Loretz GmbH	Dexpanthenol	19000648003	8
Caesar & Loretz GmbH	Dexpanthenol	19000648004	10
Caesar & Loretz GmbH	Dexpanthenol	19000648005	1
Caesar & Loretz GmbH	Dexpanthenol	19000651001	1
Caesar & Loretz GmbH	Dexpanthenol	19008703	2
Caesar & Loretz GmbH	Dexpanthenol	19008704	1
Caesar & Loretz GmbH	Dexpanthenol	19008705	1
Caesar & Loretz GmbH	Dexpanthenol	19008706	1
Caesar & Loretz GmbH	Dexpanthenol	19008708	1
Caesar & Loretz GmbH	Dexpanthenol	19045004	3
Caesar & Loretz GmbH	Dexpanthenol	19045005	2
Caesar & Loretz GmbH	Dexpanthenol	19045006	2
Caesar & Loretz GmbH	Dexpanthenol	19045007	2
Caesar & Loretz GmbH	Dexpanthenol	19045008	1
Caesar & Loretz GmbH	Dexpanthenol	19062102	6
Caesar & Loretz GmbH	Dexpanthenol	19062103	2
Caesar & Loretz GmbH	Dexpanthenol	19065802	1
Caesar & Loretz GmbH	Dexpanthenol	19065804	1
Caesar & Loretz GmbH	Dexpanthenol	19088801	4
Caesar & Loretz GmbH	Dexpanthenol	19088802	3
Caesar & Loretz GmbH	Dexpanthenol	19106803	2
Caesar & Loretz GmbH	Dexpanthenol	19106804	5
Caesar & Loretz GmbH	Dexpanthenol	19106805	7
Caesar & Loretz GmbH	Dexpanthenol	19106806	1
Caesar & Loretz GmbH	Dexpanthenol	19106807	10
Caesar & Loretz GmbH	Dexpanthenol	19106808	3
Caesar & Loretz GmbH	Dexpanthenol	19106809	3
Caesar & Loretz GmbH	Dexpanthenol	19106810	4
Caesar & Loretz GmbH	Dexpanthenol	19106901	2
Caesar & Loretz GmbH	Dexpanthenol	19106902	4
Caesar & Loretz GmbH	Dexpanthenol	19107001	2
Caesar & Loretz GmbH	Dexpanthenol	19107002	4
Caesar & Loretz GmbH	Dexpanthenol	19107004	2
Caesar & Loretz GmbH	Dexpanthenol	19134401	6
Caesar & Loretz GmbH	Dexpanthenol	19134404	1
Caesar & Loretz GmbH	Dexpanthenol	19134405	1
Caesar & Loretz GmbH	Dexpanthenol	19134406	6
Caesar & Loretz GmbH	Dexpanthenol	191835001	4
Caesar & Loretz GmbH	Dexpanthenol	191835003	1
Caesar & Loretz GmbH	Dexpanthenol	191835004	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Dexpanthenol	191835005	4
Caesar & Loretz GmbH	Dexpanthenol	191835007	1
Caesar & Loretz GmbH	Dexpanthenol	191835008	5
Caesar & Loretz GmbH	Dexpanthenol	191835009	4
Caesar & Loretz GmbH	Dexpanthenol	19183501	8
Caesar & Loretz GmbH	Dexpanthenol	191835010	6
Caesar & Loretz GmbH	Dexpanthenol	191835011	3
Caesar & Loretz GmbH	Dexpanthenol	191835012	5
Caesar & Loretz GmbH	Dexpanthenol	191835013	4
Caesar & Loretz GmbH	Dexpanthenol	19183502	2
Caesar & Loretz GmbH	Dexpanthenol	19183503	2
Caesar & Loretz GmbH	Dexpanthenol	19H20-B06	1
Caesar & Loretz GmbH	Dexpanthenol	20001457	2
Caesar & Loretz GmbH	Dexpanthenol	20001457004	7
Caesar & Loretz GmbH	Dexpanthenol	20001457005	3
Caesar & Loretz GmbH	Dexpanthenol	20001457006	8
Caesar & Loretz GmbH	Dexpanthenol	20001457008	8
Caesar & Loretz GmbH	Dexpanthenol	20004104001	1
Caesar & Loretz GmbH	Dexpanthenol	20004104005	6
Caesar & Loretz GmbH	Dexpanthenol	20004104006	8
Caesar & Loretz GmbH	Dexpanthenol	20004104010	4
Caesar & Loretz GmbH	Dexpanthenol	20004104012	1
Caesar & Loretz GmbH	Dexpanthenol	20004104013	4
Caesar & Loretz GmbH	Dexpanthenol	20004104014	6
Caesar & Loretz GmbH	Dexpanthenol	20004104015	1
Caesar & Loretz GmbH	Dexpanthenol	20004231001	2
Caesar & Loretz GmbH	Dexpanthenol	20004231003	3
Caesar & Loretz GmbH	Dexpanthenol	20004231007	7
Caesar & Loretz GmbH	Dexpanthenol	21002144002	5
Caesar & Loretz GmbH	Dexpanthenol	21002144003	4
Caesar & Loretz GmbH	Dexpanthenol	21002144005	2
Caesar & Loretz GmbH	Dexpanthenol	21002144007	4
Caesar & Loretz GmbH	Dexpanthenol	21002144008	4
Caesar & Loretz GmbH	Dexpanthenol	21002144012	1
Caesar & Loretz GmbH	Dexpanthenol	B06-1944904	2
Caesar & Loretz GmbH	Dexpanthenol	T01-0611108	1
Caesar & Loretz Hilden/...	Dexpanthenol	19045005	1
Caesar & Loretz Hilden	Dexpanthenol	19062102	1
Caesar & Loretz Hilden	Dexpanthenol	19088801	1
Caesar & Loretz Hilden	Dexpanthenol	20001457008	1
Caesar & Loretz/Geilenk...	Dexpanthenol	19106808	1
Caesar & Loretz/Geilenk...	Dexpanthenol	191835010	1
Caesar & Loretz/Noweda	Dexpanthenol	19134406	1
Caesar und Loretz	Dexpanthenol	19106806	3
Caesar&Lorenz / Gehe	Dexpanthenol	19106810	1
Caesar&Lorenz	Dexpanthenol	20004104013	1
Caesar&Loretz GmbH/Fiebig	Dexpanthenol	17172105	1
Caesar&loretz,Phoenix	Dexpanthenol	12285201	1
Caesar&Loretz	Dexpanthenol	19106810	1
Caesar/Gehe	Dexpanthenol	19088801	1
Caesar/Noweda	Dexpanthenol	13084709	2
Caesar/Noweda	Dexpanthenol	4811A-01082	1
caesar	Dexpanthenol	16043512	1
Caesar	Dexpanthenol	18197204	1
Caleo/Gehe	Dexpanthenol	19107001	1
Caleo	Dexpanthenol	15097710	1
Calo	Dexpanthenol	19008707	1
Caolo	Dexpanthenol	15395506	1
Cealo / Anzag	Dexpanthenol	220906(21002144013)	1
Cealo/Sanacorp	Dexpanthenol	15395506	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Cealo	Dexpanthenol	17335106	1
Cealo	Dexpanthenol	19065802	1
Cealo	Dexpanthenol	19088801	1
cesar&lorentz/Phönix	Dexpanthenol	12285203	1
Daiichi Fine Chemicals	Dexpanthenol	1301009-01	1
DSM / Noweda	Dexpanthenol	191835013	1
DSM / Sanacorp	Dexpanthenol	20001457005	1
DSM Nutrional Products UK	Dexpanthenol	15F26-B01-314370	1
DSM Nutritional Prod./...	Dexpanthenol	16043505	1
DSM Nutritional Prod./...	Dexpanthenol	16311610	1
DSM Nutritional Prod./...	Dexpanthenol	17065412	1
DSM Nutritional Prod./...	Dexpanthenol	TL01212052	1
DSM Nutritional Product...	Dexpanthenol	20D16-T16-080047	1
DSM Nutritional Product...	Dexpanthenol	19106804	1
DSM Nutritional Product...	Dexpanthenol	19134401	1
DSM Nutritional Product...	Dexpanthenol	19H20-B06-194494	1
DSM Nutritional Products	Dexpanthenol	191835009	1
DSM Nutritional products	Dexpanthenol	19F10-B08-191445	1
DSM/Noweda	Dexpanthenol	2001015-01	1
DSM/Noweda	Dexpanthenol	TL019003036	1
DSM/Noweda	Dexpanthenol	TL01903036	2
DSM/Noweda	Dexpanthenol	TL02007076	1
DSM/Phoenix	Dexpanthenol	TL01907089	2
DSM	Dexpanthenol	19106901	1
EuRho/ Phönix	Dexpanthenol	1801011-01	1
EuRho/Noweda	Dexpanthenol	1407039-02	1
EuRho/Noweda	Dexpanthenol	1801011-01	2
EuRho/Phönix	Dexpanthenol	1801011-01	1
EuRho/Phönix	Dexpanthenol	1808007-01	1
EuRho/Phönix	Dexpanthenol	4485006D0	1
EuRho	Dexpanthenol	1107023-01	1
EuRho	Dexpanthenol	1110032-01	1
EuRho	Dexpanthenol	1204010-02	1
EuRho	Dexpanthenol	1301009-01	4
EuRho	Dexpanthenol	1309030-01	1
Eurho	Dexpanthenol	1610041-01	1
Eurho	Dexpanthenol	170302901	1
Eurho	Dexpanthenol	1801011-01	3
EuRho	Dexpanthenol	1801011-01	1
EuRho	Dexpanthenol	23223009T0	1
Euro Gehe	Dexpanthenol	1801011-01	1
Euro OTC	Dexpanthenol		2
Euro OTC	Dexpanthenol	10061508	1
Euro OTC	Dexpanthenol	11021503	1
Euro OTC	Dexpanthenol	1111406	1
Euro OTC	Dexpanthenol	1204010-01	10
Euro OTC	Dexpanthenol	1204010-02	11
Euro OTC	Dexpanthenol	12091801	1
Euro OTC	Dexpanthenol	129401002	1
Euro OTC	Dexpanthenol	1301009	1
Euro OTC	Dexpanthenol	1301009-001	1
Euro OTC	Dexpanthenol	130100901	2
Euro OTC	Dexpanthenol	1301009-01	18
Euro OTC	Dexpanthenol	130100902	2
Euro OTC	Dexpanthenol	1301009-02	17
Euro OTC	Dexpanthenol	13011809	1
Euro OTC	Dexpanthenol	130903001	2
Euro OTC	Dexpanthenol	1309030-01	10
Euro OTC	Dexpanthenol	130903002	1
Euro OTC	Dexpanthenol	1309030-02	9

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Dexpanthenol	1309030-03	3
Euro OTC	Dexpanthenol	14070390	1
Euro OTC	Dexpanthenol	140703901	3
Euro OTC	Dexpanthenol	1407039-01	10
Euro OTC	Dexpanthenol	140703902	1
Euro OTC	Dexpanthenol	1407039-02	7
Euro OTC	Dexpanthenol	1407039-1	1
Euro OTC	Dexpanthenol	14070399-01	1
Euro OTC	Dexpanthenol	14071702	1
Euro OTC	Dexpanthenol	140739	1
Euro OTC	Dexpanthenol	14703029-01	1
Euro OTC	Dexpanthenol	14H05-B02-300069	2
Euro OTC	Dexpanthenol	1502010-01	1
Euro OTC	Dexpanthenol	1502010-02	1
Euro OTC	Dexpanthenol	150201901	1
Euro OTC	Dexpanthenol	1502019-01	25
Euro OTC	Dexpanthenol	150201902	2
Euro OTC	Dexpanthenol	1502019-02	17
Euro OTC	Dexpanthenol	150219-02	1
Euro OTC	Dexpanthenol	15100008-01	1
Euro OTC	Dexpanthenol	15100008-02	2
Euro OTC	Dexpanthenol	151000801	2
Euro OTC	Dexpanthenol	1510008-01	40
Euro OTC	Dexpanthenol	151000802	1
Euro OTC	Dexpanthenol	1510008-02	22
Euro OTC	Dexpanthenol	151008-01	2
Euro OTC	Dexpanthenol	15260908	1
Euro OTC	Dexpanthenol	15F26-B01-314370	1
Euro OTC	Dexpanthenol	160041-01	1
Euro OTC	Dexpanthenol	160601501	2
Euro OTC	Dexpanthenol	1606015-01	32
Euro OTC	Dexpanthenol	160702701	4
Euro OTC	Dexpanthenol	1607027-01	17
Euro OTC	Dexpanthenol	161004101	3
Euro OTC	Dexpanthenol	1610041-01	43
Euro OTC	Dexpanthenol	1610041-02	17
Euro OTC	Dexpanthenol	161220D/1606015-01	1
Euro OTC	Dexpanthenol	16311610	1
Euro OTC	Dexpanthenol	170302901	1
Euro OTC	Dexpanthenol	1703029-01	43
Euro OTC	Dexpanthenol	1703029-02	5
Euro OTC	Dexpanthenol	17041503	1
Euro OTC	Dexpanthenol	1708013-01	23
Euro OTC	Dexpanthenol	17091401	1
Euro OTC	Dexpanthenol	171106D/1703029-01	1
Euro OTC	Dexpanthenol	17335105	1
Euro OTC	Dexpanthenol	17335108	1
Euro OTC	Dexpanthenol	17B06-B04-332077	2
Euro OTC	Dexpanthenol	1801011	1
Euro OTC	Dexpanthenol	180101101	1
Euro OTC	Dexpanthenol	1801011-01	64
Euro OTC	Dexpanthenol	1801011-11	1
Euro OTC	Dexpanthenol	1803008-01	16
Euro OTC	Dexpanthenol	180300802	1
Euro OTC	Dexpanthenol	1803008-02	19
Euro OTC	Dexpanthenol	1806019-01	25
Euro OTC	Dexpanthenol	180619-01	1
Euro OTC	Dexpanthenol	1808001-01	1
Euro OTC	Dexpanthenol	1808007-01	15
Euro OTC	Dexpanthenol	18C20-B07-350624	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Dexpanthenol	190621	2
Euro OTC	Dexpanthenol	19062103	1
Euro OTC	Dexpanthenol	19H20-B06-194494	1
Euro OTC	Dexpanthenol	20001457005	1
Euro OTC	Dexpanthenol	20001457008	1
Euro OTC	Dexpanthenol	2001014-01	2
Euro OTC	Dexpanthenol	2001014-02	1
Euro OTC	Dexpanthenol	200101501	4
Euro OTC	Dexpanthenol	2001015-01	40
Euro OTC	Dexpanthenol	2077006D0	1
Euro OTC	Dexpanthenol	2081403	1
Euro OTC	Dexpanthenol	23101409	1
Euro OTC	Dexpanthenol	23223009T0	4
Euro OTC	Dexpanthenol	27031503	1
Euro OTC	Dexpanthenol	28031801	1
Euro OTC	Dexpanthenol	28041729	1
Euro OTC	Dexpanthenol	28071501	1
Euro OTC	Dexpanthenol	28111404	1
Euro OTC	Dexpanthenol	309030-03	1
Euro OTC	Dexpanthenol	31071501	1
Euro OTC	Dexpanthenol	4091514	1
Euro OTC	Dexpanthenol	4485006D0	1
Euro OTC	Dexpanthenol	4717Q-01082	1
Euro OTC	Dexpanthenol	5051504	1
Euro OTC	Dexpanthenol	5121806	1
Euro OTC	Dexpanthenol	5121807	1
Euro OTC	Dexpanthenol	57545077L0	2
Euro OTC	Dexpanthenol	64778675LO	1
Euro OTC	Dexpanthenol	7011503	1
Euro OTC	Dexpanthenol	73709736W0	1
Euro OTC	Dexpanthenol	86539509T0	1
Euro OTC	Dexpanthenol	9031703	1
Euro OTC	Dexpanthenol	95700556P0	2
Euro OTC	Dexpanthenol	EOEIE22902	1
Euro OTC	Dexpanthenol	EOEJD41902	1
Euro OTC	Dexpanthenol	TL01903036	3
Euro/ Phönix	Dexpanthenol	5117E-01082	1
EUro/AHD	Dexpanthenol	1301009-01	2
Euro/Noweda	Dexpanthenol	1610041-01	3
Euro/Noweda	Dexpanthenol	180300802	1
Euro/Noweda30.01.17	Dexpanthenol	1606015-01	1
Euro	Dexpanthenol	2091710	1
Euroo/Ebert	Dexpanthenol	3813E-01082	1
Europ Ots Pharma	Dexpanthenol	13084705	1
europharm/gehe	Dexpanthenol	1610041-01	1
europharm/gehe	Dexpanthenol	1801011-01	2
Fagon / Gehe	Dexpanthenol	18J25-B04-3575388	1
Fagron	Dexpanthenol		1
Fagron	Dexpanthenol	1-06263006	1
Fagron	Dexpanthenol	11B21-N01	1
Fagron	Dexpanthenol	11B21-NO1	1
Fagron	Dexpanthenol	11h26-n03	1
Fagron	Dexpanthenol	11H26-N03	4
Fagron	Dexpanthenol	12B13-N07	2
Fagron	Dexpanthenol	12E11-N02	22
Fagron	Dexpanthenol	12e11-no2	1
Fagron	Dexpanthenol	12e11-NO2	1
Fagron	Dexpanthenol	12E11-No2	1
Fagron	Dexpanthenol	12E11-NO2	1
Fagron	Dexpanthenol	12H28-N07	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Dexpanthenol	12I04-N04	1
Fagron	Dexpanthenol	12J30-B03-287502	1
Fagron	Dexpanthenol	12K27-N04	6
Fagron	Dexpanthenol	12K27-NO4	1
Fagron	Dexpanthenol	12L28-N02	1
Fagron	Dexpanthenol	12L28-N03	6
Fagron	Dexpanthenol	12L28-No3	1
Fagron	Dexpanthenol	12L28-NO3	1
Fagron	Dexpanthenol	13/04-N04	3
Fagron	Dexpanthenol	13/29-B05-287528	1
Fagron	Dexpanthenol	1309030-02	1
Fagron	Dexpanthenol	13D11-N12	1
Fagron	Dexpanthenol	13D22-N12	14
Fagron	Dexpanthenol	13i04-n04	1
Fagron	Dexpanthenol	13I04-N04	16
Fagron	Dexpanthenol	13J04-N04	2
Fagron	Dexpanthenol	13J2029-B05-287528	1
Fagron	Dexpanthenol	13J29-B05	9
Fagron	Dexpanthenol	13j29-B05-287525	1
Fagron	Dexpanthenol	13J29-B05-287525	1
Fagron	Dexpanthenol	13J29-b05-287526	1
Fagron	Dexpanthenol	13J29B05287526	1
Fagron	Dexpanthenol	13J29-B05-287526	8
Fagron	Dexpanthenol	13J29-B05-287527	2
Fagron	Dexpanthenol	13J29-B05-287528	1
Fagron	Dexpanthenol	13L02-B04	2
Fagron	Dexpanthenol	13L02-B04-292067	2
Fagron	Dexpanthenol	13L02B04292068	1
Fagron	Dexpanthenol	13L02-B04-292068	8
Fagron	Dexpanthenol	13L02-BB04-292067	1
Fagron	Dexpanthenol	14051908	2
Fagron	Dexpanthenol	14214510	1
Fagron	Dexpanthenol	14E01-811-295577	1
Fagron	Dexpanthenol	14e01-811-300068	1
Fagron	Dexpanthenol	14E01-B11	8
Fagron	Dexpanthenol	14e01-b11-293623	1
Fagron	Dexpanthenol	14E01B11293623	1
Fagron	Dexpanthenol	14E01-B11-293623	1
Fagron	Dexpanthenol	14E01-B11-293624	2
Fagron	Dexpanthenol	14E01-B11-295533	1
Fagron	Dexpanthenol	14E01-B11-295534	1
Fagron	Dexpanthenol	14E01-b11-295544	1
Fagron	Dexpanthenol	14E01-B11-295544	3
Fagron	Dexpanthenol	14E01-B11-295577	5
Fagron	Dexpanthenol	14E01-B11-295578	12
Fagron	Dexpanthenol	14E01-B11-3000068	1
Fagron	Dexpanthenol	14E01-B11-300065	2
Fagron	Dexpanthenol	14E01-B11-300068	12
Fagron	Dexpanthenol	14Eo1-B11-300068	1
Fagron	Dexpanthenol	14H05-B02	2
Fagron	Dexpanthenol	14H05-B02_300069	1
Fagron	Dexpanthenol	14H05-B02-0001	1
Fagron	Dexpanthenol	14H05-B02-300066	2
Fagron	Dexpanthenol	14H05-B02-300069	13
Fagron	Dexpanthenol	14H05-B02-305656	2
Fagron	Dexpanthenol	15097709	1
Fagron	Dexpanthenol	15395502	3
Fagron	Dexpanthenol	15A30-B08-306695	3
Fagron	Dexpanthenol	15F26-B01	1
Fagron	Dexpanthenol	15f26b01_319991	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Dexpanthenol	15F26-B01-314370	13
Fagron	Dexpanthenol	15F26-B01-317519	2
Fagron	Dexpanthenol	15F26-B01-317520	1
Fagron	Dexpanthenol	15F26-B01-319991	8
Fagron	Dexpanthenol	16007-804-322508	1
Fagron	Dexpanthenol	16d07-b04	1
Fagron	Dexpanthenol	16D07-B04	1
Fagron	Dexpanthenol	16D07-B04-322110	7
Fagron	Dexpanthenol	16D07-B04322508	1
Fagron	Dexpanthenol	16D07-B04-322508	13
Fagron	Dexpanthenol	16D07-B04-323096	5
Fagron	Dexpanthenol	16D07-B04-323097	2
Fagron	Dexpanthenol	16D07-B04-327322	7
Fagron	Dexpanthenol	17/21-B01-340264	3
Fagron	Dexpanthenol	17/21-B01-340265	1
Fagron	Dexpanthenol	17/21-B01-340266	2
Fagron	Dexpanthenol	1703029-01	1
Fagron	Dexpanthenol	171120D/TL01601003	1
Fagron	Dexpanthenol	17121-B01	1
Fagron	Dexpanthenol	1721-B01-340264	1
Fagron	Dexpanthenol	1721-B01-340266	1
Fagron	Dexpanthenol	17B06_B04	1
Fagron	Dexpanthenol	17B06_B04_332076	1
Fagron	Dexpanthenol	17B0619	1
Fagron	Dexpanthenol	17B0619-0003	1
Fagron	Dexpanthenol	17B06-B04	7
Fagron	Dexpanthenol	17B06-B04-332075	12
Fagron	Dexpanthenol	17b06-b04-332076	2
Fagron	Dexpanthenol	17B06-B04-332076	1
Fagron	Dexpanthenol	17B06-B04-332077	3
Fagron	Dexpanthenol	17B06-B04-332078	6
Fagron	Dexpanthenol	17B06-B04-3322078	1
Fagron	Dexpanthenol	17B06-B04-332612	1
Fagron	Dexpanthenol	17I21-B01	4
Fagron	Dexpanthenol	17I21-B01-340264	6
Fagron	Dexpanthenol	17i21-B01-340265	1
Fagron	Dexpanthenol	17I21-B01-340265	4
Fagron	Dexpanthenol	17I21B01-340266	1
Fagron	Dexpanthenol	17I21-B01-340266	2
Fagron	Dexpanthenol	17I21B01340267	1
Fagron	Dexpanthenol	17I21-B01-340267	5
Fagron	Dexpanthenol	17I21-B01-340268	2
Fagron	Dexpanthenol	17I21-B01-340269	3
Fagron	Dexpanthenol	17I21-B01-340274	1
Fagron	Dexpanthenol	17I21-B01-343249	1
Fagron	Dexpanthenol	17J21-B01-340267	1
Fagron	Dexpanthenol	17K30-B01	1
Fagron	Dexpanthenol	17k30-b01-343821	1
Fagron	Dexpanthenol	17k30-B01-343821	1
Fagron	Dexpanthenol	17K30-B01-343821	11
Fagron	Dexpanthenol	17K30-B01-343822	4
Fagron	Dexpanthenol	17K30-B01-344320	3
Fagron	Dexpanthenol	17l21-B01-340264	2
Fagron	Dexpanthenol	1801011-01	3
Fagron	Dexpanthenol	1803008-02	1
Fagron	Dexpanthenol	18069103	1
Fagron	Dexpanthenol	1808007-01	1
Fagron	Dexpanthenol	18176605	1
Fagron	Dexpanthenol	18C20_B07_349243	1
Fagron	Dexpanthenol	18C20-B07	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Dexpanthenol	18C20-B07	1
Fagron	Dexpanthenol	18C20-B07-248242	1
Fagron	Dexpanthenol	18C20-B07-348241	11
Fagron	Dexpanthenol	18C20-B07-348242	9
Fagron	Dexpanthenol	18C20-B07-349242	16
Fagron	Dexpanthenol	18C20-B07-349243	5
Fagron	Dexpanthenol	18C20-B07-349943	2
Fagron	Dexpanthenol	18C20-B07-349944	9
Fagron	Dexpanthenol	18C20-B07-350623	1
Fagron	Dexpanthenol	18C20-B07-350624	6
Fagron	Dexpanthenol	18C20-B07-350625	3
Fagron	Dexpanthenol	18C20-B07-351396	7
Fagron	Dexpanthenol	18c20-B07-353894	1
Fagron	Dexpanthenol	18C20-B07-353894	11
Fagron	Dexpanthenol	18C20-B07-353895	2
Fagron	Dexpanthenol	18C20-B07-353896	2
Fagron	Dexpanthenol	18C20-B07-355377	3
Fagron	Dexpanthenol	18C20-B07-356956	4
Fagron	Dexpanthenol	18J25-B04-357387	7
Fagron	Dexpanthenol	18J25-B04-357388	3
Fagron	Dexpanthenol	18J25-B04-357388	1
Fagron	Dexpanthenol	190820508	1
Fagron	Dexpanthenol	19088801	1
Fagron	Dexpanthenol	191090810	1
Fagron	Dexpanthenol	194494	2
Fagron	Dexpanthenol	194496	1
Fagron	Dexpanthenol	19B26-B01-361217	7
Fagron	Dexpanthenol	19B26-B01-361218	5
Fagron	Dexpanthenol	19B26-B01-361221	1
Fagron	Dexpanthenol	19F-10_B08-191444	1
Fagron	Dexpanthenol	19F10-B08-191422	1
Fagron	Dexpanthenol	19F10-B08-191442	7
Fagron	Dexpanthenol	19F10-B08-191443	1
Fagron	Dexpanthenol	19F10-B08-191444	2
Fagron	Dexpanthenol	19F10B08191445	1
Fagron	Dexpanthenol	19F20-B08-191442	1
Fagron	Dexpanthenol	19G019-0004	1
Fagron	Dexpanthenol	19G02-B16-194495	12
Fagron	Dexpanthenol	19G04-B04-193080	2
Fagron	Dexpanthenol	19H20-806-194496	2
Fagron	Dexpanthenol	19H20-B06	1
Fagron	Dexpanthenol	19H20-B06-1944904	1
Fagron	Dexpanthenol	19H20-B06194493	1
Fagron	Dexpanthenol	19H20-B06-194493	33
Fagron	Dexpanthenol	19H20-b06-194494	1
Fagron	Dexpanthenol	19H20-B06-194494	18
Fagron	Dexpanthenol	19H20-B06-194496	22
Fagron	Dexpanthenol	19H20-B6-194493	1
Fagron	Dexpanthenol	19H20-B06-194496	2
Fagron	Dexpanthenol	19H2O-B06-194496	1
Fagron	Dexpanthenol	1KC20-B07-348242	1
Fagron	Dexpanthenol	200116-T16-060048	1
Fagron	Dexpanthenol	20016-T16-080047	3
Fagron	Dexpanthenol	20016-T16-080048	1
Fagron	Dexpanthenol	20812-T14-079950	1
Fagron	Dexpanthenol	20B12-T14-0003	1
Fagron	Dexpanthenol	20B12-T14-079950	1
Fagron	Dexpanthenol	20D16-T16	1
Fagron	Dexpanthenol	20D16-T16-079844	9
Fagron	Dexpanthenol	20D16-T16-0800407	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Dexpanthenol	20D16-T16-0800408	1
Fagron	Dexpanthenol	20D16-T16080047	1
Fagron	Dexpanthenol	20D16-T16-080047	14
Fagron	Dexpanthenol	20D16-T16-080048	9
Fagron	Dexpanthenol	20D16-T16-080049	9
Fagron	Dexpanthenol	20F24-T01-061118	2
Fagron	Dexpanthenol	20F24-T01-079846	1
Fagron	Dexpanthenol	20F24-T01-081118	13
Fagron	Dexpanthenol	20F24T01081119	1
Fagron	Dexpanthenol	20F24-T01-081119	4
Fagron	Dexpanthenol	20F24-T01-082636	2
Fagron	Dexpanthenol	20K23-T01-084212	1
Fagron	Dexpanthenol	21K16-T12-093098	1
Fagron	Dexpanthenol	22C22-T02-095455	2
Fagron	Dexpanthenol	246019-0001	1
Fagron	Dexpanthenol	2803	1
Fagron	Dexpanthenol	2914E-01082	1
Fagron	Dexpanthenol	295544	1
Fagron	Dexpanthenol	2OD16-T16-080048	1
Fagron	Dexpanthenol	2OD16-T16-080049	2
Fagron	Dexpanthenol	2OF24-T01-079846	1
Fagron	Dexpanthenol	2OF24-T01-081118	5
Fagron	Dexpanthenol	5021904	1
Fagron	Dexpanthenol	7/21-B01-3402651	1
Fagron	Dexpanthenol	81-13-0	1
Fagron	Dexpanthenol	8572983	1
Fagron	Dexpanthenol	B06-1944903	4
Fagron	Dexpanthenol	B06-1944906	1
Fagron	Dexpanthenol	B16-1944905	1
Fagron	Dexpanthenol	T01-0811108	3
Fagron	Dexpanthenol	T01-0826306	1
Fagron	Dexpanthenol	T01-0832207	1
Fagron	Dexpanthenol	T01-0842102	1
Fagron	Dexpanthenol	T01-0895000	1
Fagron	Dexpanthenol	T01-O811108	1
Fagron	Dexpanthenol	T16-0800407	3
Fagron	Dexpanthenol	T16-0800408	2
Fagron	Dexpanthenol	TL01110074	4
Fagron	Dexpanthenol	TL01203018	3
Fagron	Dexpanthenol	TL01212052	1
Fagron	Dexpanthenol	TL01305030	8
Fagron	Dexpanthenol	TL01312070	1
Fagron	Dexpanthenol	TL01408058	1
Fagron	Dexpanthenol	TL01503022	4
Fagron	Dexpanthenol	TL01601003	1
Fagron	Dexpanthenol	TL01611112	1
Fagron	Dexpanthenol	TL017006056	1
Fagron	Dexpanthenol	TL01706056	4
Fagron	Dexpanthenol	TL01801002	3
Fagron	Dexpanthenol	TL01812120	1
Fagron	Dexpanthenol	TL019004049	1
Fagron	Dexpanthenol	TL01904049	5
Fagron	Dexpanthenol	TL01909120	1
Fagron	Dexpanthenol	TL02001009	4
Fagron	Dexpanthenol	TL02003035	2
Fagron	Dexpanthenol	TL02007082	1
Fagron	Dexpanthenol	TLO1110074	1
Fagron	Dexpanthenol	TLO1212052	1
Fagron	Dexpanthenol	TLO1904049	1
Fagron	Dexpanthenol	TO1-0825305	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Dexpanthenol	T01-0826305	1
Fagron	Dexpanthenol	T01-0811108	1
Fargon/AHD	Dexpanthenol	18C20-B07	1
Fargon/Alliance HC	Dexpanthenol	14E01-B11295578	1
Fargon/Gehe	Dexpanthenol	19H20-B06-194496	1
fargon/Sanacorp	Dexpanthenol	12E11-N02	1
Fargon	Dexpanthenol	17K30-B01-344320	1
Fargon	Dexpanthenol	18C20-B07-348241	1
Fargon	Dexpanthenol	19H20-B06-194494	1
fargon	Dexpanthenol	19H20B06194496	1
Fargron	Dexpanthenol	9L10/N01	1
Fiebig/ BASF AG	Dexpanthenol	1803008-02	1
Fiebig	Dexpanthenol	19008708	1
Fiebig	Dexpanthenol	19106804	1
Fragron	Dexpanthenol	12E11-N02	1
Gatt-Koller	Dexpanthenol	1900112	1
GEHE 17.06.2014	Dexpanthenol	13342610	1
Gehe 29.5.18	Dexpanthenol	17335108	1
Gehe amax	Dexpanthenol	19106805	1
Gehe/ Euro	Dexpanthenol	1510008-01	1
Gehe/Euro 30.06.15	Dexpanthenol	1502019-01	1
Gehe	Dexpanthenol	11293501	1
Gehe	Dexpanthenol	12285203	1
Gehe	Dexpanthenol	12E11-N02	2
Gehe	Dexpanthenol	15097704	1
Gehe	Dexpanthenol	15097705	1
Gehe	Dexpanthenol	15097709	1
Gehe	Dexpanthenol	15260901	1
Gehe	Dexpanthenol	16043504	1
GEHE	Dexpanthenol	1607027-01	1
GEHE	Dexpanthenol	161004101	1
Gehe	Dexpanthenol	1610041-02	1
Gehe	Dexpanthenol	16164809	1
Gehe	Dexpanthenol	17/21-B01-340266	1
Gehe	Dexpanthenol	170065407	1
Gehe	Dexpanthenol	1703029-01	1
Gehe	Dexpanthenol	17065403	1
Gehe	Dexpanthenol	17065405	1
Gehe	Dexpanthenol	17065411	1
GEHE	Dexpanthenol	17065413	1
Gehe	Dexpanthenol	17287708	1
Gehe	Dexpanthenol	17335103	1
Gehe	Dexpanthenol	17335105	2
Gehe	Dexpanthenol	17335106	2
Gehe	Dexpanthenol	17B06-B04-332075	1
Gehe	Dexpanthenol	17B06-B04-332077	1
Gehe	Dexpanthenol	17I21-B01	1
Gehe	Dexpanthenol	17I21-B01-340266	1
Gehe	Dexpanthenol	17K30-B01-343822	2
Gehe	Dexpanthenol	1801011-01	1
Gehe	Dexpanthenol	18069002	1
GEHE	Dexpanthenol	18069002	1
Gehe	Dexpanthenol	18069110	2
Gehe	Dexpanthenol	18197203	1
Gehe	Dexpanthenol	18C20-B07	2
Gehe	Dexpanthenol	18C20-B07-349944	1
Gehe	Dexpanthenol	18C20-B07-351396	2
Gehe	Dexpanthenol	19008707	1
Gehe	Dexpanthenol	19065801	1
Gehe	Dexpanthenol	19088801	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Dexpanthenol	19106804	1
Gehe	Dexpanthenol	19106810	1
Gehe	Dexpanthenol	19106901	1
Gehe	Dexpanthenol	191835009	1
Gehe	Dexpanthenol	19F10-B08-191444	1
Gehe	Dexpanthenol	95700556P0	1
GUMO	Dexpanthenol	20001231007	1
Hedinger/AHD	Dexpanthenol	1301009-02	1
Hedinger/Alliance Healt...	Dexpanthenol	1703029-02	1
Hedinger	Dexpanthenol	16043505	1
hochhaus-Apotheke	Dexpanthenol	1610041-01	1
Holdermann	Dexpanthenol	13/04-N04	1
Ichtyol gesellschaft GmbH	Dexpanthenol	16043511	1
Jenne	Dexpanthenol	18176605	1
Kehr/Fargon	Dexpanthenol	18C20-B07-350625	1
Kehr	Dexpanthenol	16D07-B04-327322	1
Kehr	Dexpanthenol	17335106	1
Kehr	Dexpanthenol	21002144015	1
Kögl	Dexpanthenol	1701687	2
Kögl	Dexpanthenol	1800586	2
Kögl	Dexpanthenol	1802261	3
Kögl	Dexpanthenol	20172407	2
Kögl	Dexpanthenol	240707172717	1
Kögl	Dexpanthenol	402211160217	1
Kögl	Dexpanthenol	442812161017	1
Kögl	Dexpanthenol	442812161517	2
Kögl	Dexpanthenol	KNC1672J16	1
Krieger	Dexpanthenol	17172105	1
Krieger	Dexpanthenol	17335108	2
L10/apo-ident	Dexpanthenol	1607027-01	2
L12	Dexpanthenol	17287704	1
L12	Dexpanthenol	TL01706056	1
Midas Göttingen	Dexpanthenol	17335106	2
MIDAS	Dexpanthenol	16164811	1
Midas	Dexpanthenol	16311611	1
Midas	Dexpanthenol	17287707	1
Midas	Dexpanthenol	17335105	2
Midas	Dexpanthenol	17335107	1
Midas	Dexpanthenol	17335108	1
Midas	Dexpanthenol	18176605	1
Midas	Dexpanthenol	18197204	1
Nachprüfung	Dexpanthenol	1407039-01	1
Noweda/ Caesar&Lorenz G...	Dexpanthenol	19106901	1
Noweda/EuRo	Dexpanthenol	1610041-01	1
Noweda	Dexpanthenol	11010703	1
Noweda	Dexpanthenol	12285211	2
Noweda	Dexpanthenol	12E11-N02	2
Noweda	Dexpanthenol	13342601	1
Noweda	Dexpanthenol	13342605	1
Noweda	Dexpanthenol	13342606	1
Noweda	Dexpanthenol	15097712	1
Noweda	Dexpanthenol	1510008	1
Noweda	Dexpanthenol	16043505	1
Noweda	Dexpanthenol	16D07B04322508	1
Noweda	Dexpanthenol	17/21-B01-340264	1
Noweda	Dexpanthenol	17/21-B01-340269	1
Noweda	Dexpanthenol	1708013-01	2
Noweda	Dexpanthenol	17287701	1
Noweda	Dexpanthenol	17335105	1
Noweda	Dexpanthenol	17B06-B04-322078	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Dexpanthenol	17B06-B04-332078	2
Noweda	Dexpanthenol	17D07-B04-322508	1
Noweda	Dexpanthenol	17I21-B01-340268	1
Noweda	Dexpanthenol	17I21B01340269	1
Noweda	Dexpanthenol	1801011-01	2
Noweda	Dexpanthenol	18069001	1
Noweda	Dexpanthenol	1808007-07	1
Noweda	Dexpanthenol	18176603	1
Noweda	Dexpanthenol	18197202	1
Noweda	Dexpanthenol	18C20-B07-356956	1
Noweda	Dexpanthenol	19000648004	1
Noweda	Dexpanthenol	19000651001	1
Noweda	Dexpanthenol	19008707	1
Noweda	Dexpanthenol	19008708	1
Noweda	Dexpanthenol	19065804	1
Noweda	Dexpanthenol	19088801	1
Noweda	Dexpanthenol	19106802	2
Noweda	Dexpanthenol	19106806	1
Noweda	Dexpanthenol	19106810	1
Noweda	Dexpanthenol	19107004	1
Noweda	Dexpanthenol	191344001	1
Noweda	Dexpanthenol	19134404	1
Noweda	Dexpanthenol	191835003	2
Noweda	Dexpanthenol	191835005	1
Noweda	Dexpanthenol	191835008	1
Noweda	Dexpanthenol	19183503	1
Noweda	Dexpanthenol	20001457004	1
Noweda	Dexpanthenol	20001457005	1
Noweda	Dexpanthenol	20004104	1
Noweda	Dexpanthenol	20004104010	1
Noweda	Dexpanthenol	20004104014	2
Noweda	Dexpanthenol	2000414014	1
Noweda	Dexpanthenol	2001015-01	1
Pharmachem Pößneck/AHD	Dexpanthenol	18C20-B07-351396	1
Pharmachem/Phoenix	Dexpanthenol	1803008-01	1
Phoenix goettin	Dexpanthenol	14214512	1
Phoenix/Fragon	Dexpanthenol	2001015-01	1
Phoenix	Dexpanthenol	1510008-02	1
Phoenix	Dexpanthenol	17065412	1
Phoenix	Dexpanthenol	17335103	2
Phoenix	Dexpanthenol	1801011-01	1
Phoenix	Dexpanthenol	1806019-01	1
phoenix	Dexpanthenol	18069002	1
phoenix	Dexpanthenol	18C20-B07-348241	1
Phoenix	Dexpanthenol	190000648004	1
Phoenix	Dexpanthenol	19106807	1
Phoenix	Dexpanthenol	200030901	1
Phoenix	Dexpanthenol	2001015-01	1
Phoenix	Dexpanthenol	200221902	1
Phoenix	Dexpanthenol	200341604	1
Phönix Gotha	Dexpanthenol	1204010-01	1
Phönix Gotha	Dexpanthenol	1502019-01	1
Phönix Gotha	Dexpanthenol	1502019-02	1
Phönix/Fagon	Dexpanthenol	15F26-B01-317519	1
Phönix	Dexpanthenol	12285204	1
Phönix	Dexpanthenol	1301009-02	1
Phönix	Dexpanthenol	1309030-01	1
Phönix	Dexpanthenol	13J29-B05287525	1
Phönix	Dexpanthenol	16311603	1
phönix	Dexpanthenol	16D07-B04-322110	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Dexpanthenol	1721b01-340264	1
PHÖNIX	Dexpanthenol	1801011-01	2
Phönix	Dexpanthenol	1803008-01	1
Phönix	Dexpanthenol	19062102	1
Phönix	Dexpanthenol	19106804	1
Phönix	Dexpanthenol	19134401	1
PHÖNIX	Dexpanthenol	191835011	1
Phönix	Dexpanthenol	191835013	3
Phönix	Dexpanthenol	20001457004	1
Phönix	Dexpanthenol	20001457008	1
Phönix	Dexpanthenol	3184	1
Phönix	Dexpanthenol	TL01706056	1
Raben-Apotheke Mildenau	Dexpanthenol	1309030-03	1
sanacorb	Dexpanthenol	18176605	1
Sanacorp/ euRho	Dexpanthenol	1103053-01	1
Sanacorp	Dexpanthenol		1
Sanacorp	Dexpanthenol	13342601	1
Sanacorp	Dexpanthenol	13342605	1
Sanacorp	Dexpanthenol	1407039-02	1
Sanacorp	Dexpanthenol	14E01-B11	1
Sanacorp	Dexpanthenol	15097714	1
Sanacorp	Dexpanthenol	160601501	1
Sanacorp	Dexpanthenol	1610041-02	1
Sanacorp	Dexpanthenol	16311605	1
Sanacorp	Dexpanthenol	1703029-01	1
Sanacorp	Dexpanthenol	17172106	1
Sanacorp	Dexpanthenol	17172107	1
Sanacorp	Dexpanthenol	1801011-01	1
Sanacorp	Dexpanthenol	19008707	1
Sanacorp	Dexpanthenol	19106901	1
Sanacorp	Dexpanthenol	191835003	1
Sanacorp	Dexpanthenol	19183501	2
Sanacorp	Dexpanthenol	19B26-B01-361218	1
Sanacorp	Dexpanthenol	2/AKD4	1
Sanacorp	Dexpanthenol	200004104004	1
Sanacorp	Dexpanthenol	20001457004	1
Sanacorp	Dexpanthenol	21002144007	1
Sanacorp	Dexpanthenol	36/AKD22	1
sanaEuro	Dexpanthenol	311V-01082	1
Sanaorp	Dexpanthenol	17B06-B04-332077	2
siehe Protokoll	Dexpanthenol	16043502	1
Spinnrad	Dexpanthenol	18069107	1
THC Pharm/Gehe	Dexpanthenol	19134406	1

- 292 521 spectra from 1324 *Apo-Ident* customers from a total of 52 190 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Dexpanthenol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Dexpanthenol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following

table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	437	0	68 062
Type B	0	680	0	110 633
Type C	0	4932	5	292 521

The substance/substance group *Dexpanthenol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.6270 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.1176 %)
Type C	100.0000 % (> 99.6875 %)	99.8987 % (> 99.8380 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Dexpanthenol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dexpanthenol concentrate 50%	83.64	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Dexpanthenol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30884	31769	2.82	126.90
31317	31532	1.61	136.59
31532	31532	0.00	140.57
31769	31769	0.00	128.60
33239	31532	1.95	136.27

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
33716	33716	0.00	120.28
33903	33903	0.00	125.32
34596	31532	2.58	138.47
34637	34637	0.00	99.41
34639	34639	0.00	101.87

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Dexpanthenol concentrate 50%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30492-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Dexpanthenol concentrate 50%; Pantothenolum 50%

Special notes

When selecting the *Dexpanthenol concentrate 50%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Dexpanthenol concentrate 50%	8	15	183

Second-stage model

For differentiation of the substance/substance group *Dexpanthenol concentrate 50%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Dexpanthenol concentrate 50%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Dexpanthenol con...	12171803	30664	40	20120724
Caelo	Dexpanthenol con...	15408002	31835	60	20151211
Caelo	Dexpanthenol con...	153314	31879	60	20151014*
Caelo	Dexpanthenol con...	162483	32579	40	20160901*
Caelo	Dexpanthenol con...	173261	33974	40	20171207*
Caelo	Dexpanthenol con...	172781	33975	40	20171114*
Caelo	Dexpanthenol con...	18050802	34130	40	20180213
Caelo	Dexpanthenol con...	190581	34533	40	20190319*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 360 spectra of 8 reference samples from the substance/substance group *Dexpanthenol concentrate 50%*. These samples are listed above in the *calibration samples* section. The reference samples come from 8 different batches.
- 68 139 spectra from a total of 1405 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 640 spectra of 15 reference samples from the substance/substance group *Dexpanthenol concentrate 50%*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 15 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Dexpanthenol concentrate 50%	14116302	31461	60
Caelo	Dexpanthenol concentrate 50%	163336	33161	40
Caelo	Dexpanthenol concentrate 50%	192306	34773	40
Caelo	Dexpanthenol concentrate 50%	20001532	34970	40
Caelo	Dexpanthenol concentrate 50%	20003068	35161	40
Caelo	Dexpanthenol concentrate 50%	20003069	35172	40
Caelo	Dexpanthenol concentrate 50%	20004284	35318	40
Caelo	Dexpanthenol concentrate 50%	20004286	35319	40
Caelo	Dexpanthenol concentrate 50%	21001026	35554	50
Caelo	Dexpanthenol concentrate 50%	21001588	35601	50
Caelo	Dexpanthenol concentrate 50%	21001589	35602	50
Caelo	Dexpanthenol concentrate 50%	21003118	35808	50
Caelo	Dexpanthenol concentrate 50%	21003119	35809	50
Caelo	Dexpanthenol concentrate 50%	21004203	36148	40
Caelo	Dexpanthenol concentrate 50%	21004204	36149	10

- 110 673 spectra from a total of 2651 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 2069 spectra from 459 *Apo-Ident* customers from 189 batches from the substance/substance group *Dexpanthenol concentrate 50%*.

- Among them are spectra of independent samples from 182 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Dexpanthenol concentrate 50%	20004284001	1
Alliance Health	Dexpanthenol concentrate 50%	13068003	1
Alliance Healthcare	Dexpanthenol concentrate 50%	12256001	1
Alliance Healthcare	Dexpanthenol concentrate 50%	13174703	1
Alliance Healthcare	Dexpanthenol concentrate 50%	16136503	2
Alliance	Dexpanthenol concentrate 50%	17194601	1
Allianz Healthcare	Dexpanthenol concentrate 50%	19140301	1
Allianz Healthcare	Dexpanthenol concentrate 50%	19230702	1
Anzag	Dexpanthenol concentrate 50%	14020803	2
apomix	Dexpanthenol concentrate 50%	17059203	1
Audor Pharma	Dexpanthenol concentrate 50%	AP36716516K0P	1
Audor Pharma	Dexpanthenol concentrate 50%	AP65524488Q0P	2
Audor Pharma	Dexpanthenol concentrate 50%	AP83943088Q0P	1
Audor Pharma	Dexpanthenol concentrate 50%	AP83943088QQP	1
Bombastus	Dexpanthenol concentrate 50%	16025303	1
Bombastus	Dexpanthenol concentrate 50%	17059202	1
Bombastus	Dexpanthenol concentrate 50%	17135702	1
Caelo	Dexpanthenol concentrate 50%		1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol concentrate 50%	1021117/17059203	1
Caelo	Dexpanthenol concentrate 50%	11121706	1
Caelo	Dexpanthenol concentrate 50%	11279703	1
Caelo	Dexpanthenol concentrate 50%	11279704	1
Caelo	Dexpanthenol concentrate 50%	11279706	1
Caelo	Dexpanthenol concentrate 50%	11358201	2
Caelo	Dexpanthenol concentrate 50%	11358202	1
Caelo	Dexpanthenol concentrate 50%	12081406	1
Caelo	Dexpanthenol concentrate 50%	12127003	2
Caelo	Dexpanthenol concentrate 50%	12171803	2
Caelo	Dexpanthenol concentrate 50%	1220218/17194603	1
Caelo	Dexpanthenol concentrate 50%	12256001	4
Caelo	Dexpanthenol concentrate 50%	12256002	4
Caelo	Dexpanthenol concentrate 50%	12340302	3
Caelo	Dexpanthenol concentrate 50%	13019203	8
Caelo	Dexpanthenol concentrate 50%	13019204	1
Caelo	Dexpanthenol concentrate 50%	13068003	5
Caelo	Dexpanthenol concentrate 50%	13068004	4
Caelo	Dexpanthenol concentrate 50%	13100408	1
Caelo	Dexpanthenol concentrate 50%	13174702	7
Caelo	Dexpanthenol concentrate 50%	13174703	5
Caelo	Dexpanthenol concentrate 50%	13305003	9
Caelo	Dexpanthenol concentrate 50%	13305004	4
Caelo	Dexpanthenol concentrate 50%	13382102	3
Caelo	Dexpanthenol concentrate 50%	1402003	1
Caelo	Dexpanthenol concentrate 50%	14020803	7
Caelo	Dexpanthenol concentrate 50%	14020804	7
Caelo	Dexpanthenol concentrate 50%	14116301	6
Caelo	Dexpanthenol concentrate 50%	14116302	6
Caelo	Dexpanthenol concentrate 50%	14198101	16
Caelo	Dexpanthenol concentrate 50%	14198103	4
Caelo	Dexpanthenol concentrate 50%	14199101	1
Caelo	Dexpanthenol concentrate 50%	14275202	1
Caelo	Dexpanthenol concentrate 50%	14275203	9
Caelo	Dexpanthenol concentrate 50%	14275204	4
Caelo	Dexpanthenol concentrate 50%	14275207	4
Caelo	Dexpanthenol concentrate 50%	14373301	4
Caelo	Dexpanthenol concentrate 50%	14373302	8
Caelo	Dexpanthenol concentrate 50%	15050801	3
Caelo	Dexpanthenol concentrate 50%	15050802	21
Caelo	Dexpanthenol concentrate 50%	1508002	1
Caelo	Dexpanthenol concentrate 50%	15142901	10
Caelo	Dexpanthenol concentrate 50%	15142902	5
Caelo	Dexpanthenol concentrate 50%	1514902	1
Caelo	Dexpanthenol concentrate 50%	15196202	11
Caelo	Dexpanthenol concentrate 50%	15196203	14
Caelo	Dexpanthenol concentrate 50%	15331402	2
Caelo	Dexpanthenol concentrate 50%	15331404	18
Caelo	Dexpanthenol concentrate 50%	15408002	16
Caelo	Dexpanthenol concentrate 50%	15408003	12
Caelo	Dexpanthenol concentrate 50%	15408004	1
Caelo	Dexpanthenol concentrate 50%	1602503	1
Caelo	Dexpanthenol concentrate 50%	16025302	1
Caelo	Dexpanthenol concentrate 50%	16025303	17
Caelo	Dexpanthenol concentrate 50%	16136502	2
Caelo	Dexpanthenol concentrate 50%	16136503	22
Caelo	Dexpanthenol concentrate 50%	16136504	22
Caelo	Dexpanthenol concentrate 50%	16136505	11
Caelo	Dexpanthenol concentrate 50%	1624302	1
Caelo	Dexpanthenol concentrate 50%	162483	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol concentrate 50%	16248301	43
Caelo	Dexpanthenol concentrate 50%	16248301/1210217	1
Caelo	Dexpanthenol concentrate 50%	16248302	1
Caelo	Dexpanthenol concentrate 50%	16248303	30
Caelo	Dexpanthenol concentrate 50%	16251203	1
Caelo	Dexpanthenol concentrate 50%	16315101	2
Caelo	Dexpanthenol concentrate 50%	16315102	12
Caelo	Dexpanthenol concentrate 50%	16333602	28
Caelo	Dexpanthenol concentrate 50%	16333603	62
Caelo	Dexpanthenol concentrate 50%	1633603	1
Caelo	Dexpanthenol concentrate 50%	16336303	1
Caelo	Dexpanthenol concentrate 50%	1703101	1
Caelo	Dexpanthenol concentrate 50%	17031301	9
Caelo	Dexpanthenol concentrate 50%	17031303	2
Caelo	Dexpanthenol concentrate 50%	170313035279	1
Caelo	Dexpanthenol concentrate 50%	17059201	2
Caelo	Dexpanthenol concentrate 50%	17059202	27
Caelo	Dexpanthenol concentrate 50%	17059203	41
Caelo	Dexpanthenol concentrate 50%	17059203/2230418	1
Caelo	Dexpanthenol concentrate 50%	17135701	12
Caelo	Dexpanthenol concentrate 50%	17135702	23
Caelo	Dexpanthenol concentrate 50%	171494601	1
Caelo	Dexpanthenol concentrate 50%	17194601	27
Caelo	Dexpanthenol concentrate 50%	17194602	11
Caelo	Dexpanthenol concentrate 50%	17194603	18
Caelo	Dexpanthenol concentrate 50%	17194605	1
Caelo	Dexpanthenol concentrate 50%	17278101	5
Caelo	Dexpanthenol concentrate 50%	17278103	11
Caelo	Dexpanthenol concentrate 50%	17326101	49
Caelo	Dexpanthenol concentrate 50%	173261012x	1
Caelo	Dexpanthenol concentrate 50%	17326102	42
Caelo	Dexpanthenol concentrate 50%	18028901	5
Caelo	Dexpanthenol concentrate 50%	18050802	29
Caelo	Dexpanthenol concentrate 50%	18050803	30
Caelo	Dexpanthenol concentrate 50%	18050803(2)	1
Caelo	Dexpanthenol concentrate 50%	18050804	8
Caelo	Dexpanthenol concentrate 50%	1805082	1
Caelo	Dexpanthenol concentrate 50%	1813101	1
Caelo	Dexpanthenol concentrate 50%	18131301	68
Caelo	Dexpanthenol concentrate 50%	18131402	24
Caelo	Dexpanthenol concentrate 50%	18131403	7
Caelo	Dexpanthenol concentrate 50%	18204509	2
Caelo	Dexpanthenol concentrate 50%	182048001	1
Caelo	Dexpanthenol concentrate 50%	18247901	35
Caelo	Dexpanthenol concentrate 50%	18247902	7
Caelo	Dexpanthenol concentrate 50%	18248001	53
Caelo	Dexpanthenol concentrate 50%	19058101	4
Caelo	Dexpanthenol concentrate 50%	19058102	31
Caelo	Dexpanthenol concentrate 50%	19058103	1
Caelo	Dexpanthenol concentrate 50%	1905812	1
Caelo	Dexpanthenol concentrate 50%	1908102	1
Caelo	Dexpanthenol concentrate 50%	19106201	9
Caelo	Dexpanthenol concentrate 50%	19106202	22
Caelo	Dexpanthenol concentrate 50%	19106204	2
Caelo	Dexpanthenol concentrate 50%	19131402	1
Caelo	Dexpanthenol concentrate 50%	19140301	50
Caelo	Dexpanthenol concentrate 50%	19140303	28
Caelo	Dexpanthenol concentrate 50%	19140304	1
Caelo	Dexpanthenol concentrate 50%	19158302	9
Caelo	Dexpanthenol concentrate 50%	19196201	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dexpanthenol concentrate 50%	19230601	45
Caelo	Dexpanthenol concentrate 50%	19230701	30
Caelo	Dexpanthenol concentrate 50%	19230702	35
Caelo	Dexpanthenol concentrate 50%	19230801	8
Caelo	Dexpanthenol concentrate 50%	200000752001	2
Caelo	Dexpanthenol concentrate 50%	200000753001	1
Caelo	Dexpanthenol concentrate 50%	200001533003	2
Caelo	Dexpanthenol concentrate 50%	2000075001	1
Caelo	Dexpanthenol concentrate 50%	20000752001	51
Caelo	Dexpanthenol concentrate 50%	20000752011	1
Caelo	Dexpanthenol concentrate 50%	20000753001	33
Caelo	Dexpanthenol concentrate 50%	20000753001/5520	1
Caelo	Dexpanthenol concentrate 50%	20000753002	4
Caelo	Dexpanthenol concentrate 50%	20001532001	18
Caelo	Dexpanthenol concentrate 50%	20001532002	3
Caelo	Dexpanthenol concentrate 50%	20001533001	1
Caelo	Dexpanthenol concentrate 50%	20001533002	31
Caelo	Dexpanthenol concentrate 50%	200015330025	1
Caelo	Dexpanthenol concentrate 50%	20001533003	16
Caelo	Dexpanthenol concentrate 50%	20003068001	39
Caelo	Dexpanthenol concentrate 50%	20003069002	11
Caelo	Dexpanthenol concentrate 50%	20003069003	3
Caelo	Dexpanthenol concentrate 50%	20004284001	26
Caelo	Dexpanthenol concentrate 50%	20004286002	4
Caelo	Dexpanthenol concentrate 50%	20004286003	1
Caelo	Dexpanthenol concentrate 50%	20004286004	6
Caelo	Dexpanthenol concentrate 50%	2000484001	1
Caelo	Dexpanthenol concentrate 50%	2000486004	1
Caelo	Dexpanthenol concentrate 50%	2000753001	1
Caelo	Dexpanthenol concentrate 50%	2000753081	1
Caelo	Dexpanthenol concentrate 50%	2004282001	1
Caelo	Dexpanthenol concentrate 50%	2004284001	1
Caelo	Dexpanthenol concentrate 50%	2004286002	1
Caelo	Dexpanthenol concentrate 50%	2004286004	1
Caelo	Dexpanthenol concentrate 50%	2090817/17135701	1
Caelo	Dexpanthenol concentrate 50%	21001026001	2
Caelo	Dexpanthenol concentrate 50%	2100158009	1
Caelo	Dexpanthenol concentrate 50%	21001588001	16
Caelo	Dexpanthenol concentrate 50%	21001588002	19
Caelo	Dexpanthenol concentrate 50%	2100158801	1
Caelo	Dexpanthenol concentrate 50%	21001589001	13
Caelo	Dexpanthenol concentrate 50%	21003118001	12
Caelo	Dexpanthenol concentrate 50%	21003119001	2
Caelo	Dexpanthenol concentrate 50%	21004204002	1
Caelo	Dexpanthenol concentrate 50%	2101404	1
Caelo	Dexpanthenol concentrate 50%	21101588002	1
Caelo	Dexpanthenol concentrate 50%	2x19140303	2
Caelo	Dexpanthenol concentrate 50%	3417Q-03868	1
Caelo	Dexpanthenol concentrate 50%	703291	1
Caelo	Dexpanthenol concentrate 50%	7051805	1
Caelo	Dexpanthenol concentrate 50%	7194602	1
Caelo	Dexpanthenol concentrate 50%	D-050413-2	1
Caesar & Lorenz GmbH	Dexpanthenol concentrate 50%	17194601	2
Caesar & Lorenz GmbH	Dexpanthenol concentrate 50%	17326102	1
Caesar & Lorenz GmbH	Dexpanthenol concentrate 50%	19230601	1
Caesar & Lorenz GmbH	Dexpanthenol concentrate 50%	19230701	1
Caesar & Loretz GmbH / ...	Dexpanthenol concentrate 50%	15331402	1
Caesar & Loretz GmbH / ...	Dexpanthenol concentrate 50%	19230601	1
Caesar & Loretz GmbH / ...	Dexpanthenol concentrate 50%	19230701	1
Caesar & Loretz GmbH / ...	Dexpanthenol concentrate 50%	20000752001	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH / ...	Dexpanthenol concentrate 50%	19158302	1
Caesar & Loretz GmbH /n...	Dexpanthenol concentrate 50%	19230701	1
Caesar & Loretz GmbH Gehe	Dexpanthenol concentrate 50%	19230701	3
Caesar & Loretz GmbH/ A...	Dexpanthenol concentrate 50%	18247901	1
Caesar & Loretz GmbH/ A...	Dexpanthenol concentrate 50%	20003068001	2
Caesar & Loretz GmbH/ F...	Dexpanthenol concentrate 50%	20003069002	1
Caesar & Loretz GmbH/ G...	Dexpanthenol concentrate 50%	20000753001	1
Caesar & Loretz GmbH/ G...	Dexpanthenol concentrate 50%	20001533002	3
Caesar & Loretz GmbH/ P...	Dexpanthenol concentrate 50%	20004284001	3
Caesar & Loretz GmbH/AEP	Dexpanthenol concentrate 50%	21003118001	1
Caesar & Loretz GmbH/Al...	Dexpanthenol concentrate 50%	21001588001	1
Caesar & Loretz GmbH/Fi...	Dexpanthenol concentrate 50%	19230702	1
Caesar & Loretz GmbH/Gehe	Dexpanthenol concentrate 50%	18248001	1
Caesar & Loretz GmbH/Gehe	Dexpanthenol concentrate 50%	19140301	2
Caesar & Loretz GmbH/Gehe	Dexpanthenol concentrate 50%	19140303	4
Caesar & Loretz GmbH/Gehe	Dexpanthenol concentrate 50%	19230601	2
Caesar & Loretz GmbH/Gehe	Dexpanthenol concentrate 50%	20000752001	2
Caesar & Loretz GmbH/Ge...	Dexpanthenol concentrate 50%	20001533002	1
Caesar & Loretz GmbH/Ge...	Dexpanthenol concentrate 50%	20003068001	1
Caesar & Loretz GmbH/Je...	Dexpanthenol concentrate 50%	19058102	3
Caesar & Loretz GmbH/Je...	Dexpanthenol concentrate 50%	21001588001	1
Caesar & Loretz GmbH/No...	Dexpanthenol concentrate 50%	19230702	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol concentrate 50%	20004286002	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol concentrate 50%	20003068001	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol concentrate 50%	20004286002	1
Caesar & Loretz GmbH/Ph...	Dexpanthenol concentrate 50%	21003118001	1
Caesar & Loretz GmbH/Sa...	Dexpanthenol concentrate 50%	20000752001	1
Caesar & Loretz GmbH/Sa...	Dexpanthenol concentrate 50%	20004286002	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	16248301	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	16248303	2
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	16315102	2
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	16333603	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	17135701	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	17135702	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	18050803	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	18131301	2
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	18247901	4
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	18248001	2
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19058102	4
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19106202	3
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19106204	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19140301	9
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19140303	8
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19158302	2
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19230301	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19230601	11
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19230701	4
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19230702	12
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	19230801	5
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20000752001	11
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20000753001	5
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20000753002	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20001532001	2
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20001532002	3
CAESAR & LORETZ GMBH	Dexpanthenol concentrate 50%	20001533002	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20001533003	4
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20003068001	5
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20003069002	3
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	2000428001	1
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20004284001	15

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20004286002	2
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	20004286004	3
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	21001588001	2
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	21001588002	6
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	21001589001	12
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	21003118001	7
Caesar & Loretz GmbH	Dexpanthenol concentrate 50%	21003119001	1
Caesar & Loretz/ AHD	Dexpanthenol concentrate 50%	20001532001	2
Caesar & Loretz/Noweda	Dexpanthenol concentrate 50%	20003068001	1
Caesar & Loretz	Dexpanthenol concentrate 50%	18050803	1
Caesar Loretz	Dexpanthenol concentrate 50%	21003119001	1
Caesar und Loretz GmbH	Dexpanthenol concentrate 50%	200001533993	1
Caesar&Lorenz	Dexpanthenol concentrate 50%	20001533003	2
Caesar&Lorenz	Dexpanthenol concentrate 50%	21001588001	3
Caesar&Loretz GmbH,27.0...	Dexpanthenol concentrate 50%	17059203	1
caesar&Loretz GmbH,AHC,...	Dexpanthenol concentrate 50%	16248301	1
Caesar&Loretz GmbH,Phön...	Dexpanthenol concentrate 50%	15408002	1
Caesar&Loretz GmbH	Dexpanthenol concentrate 50%	15408003	1
Caesar&Loretz GmbH	Dexpanthenol concentrate 50%	20001533003	1
Caesar&loretz,Phoenix	Dexpanthenol concentrate 50%	14116302	2
Caesar&Loretz	Dexpanthenol concentrate 50%	19140303	1
Caeser&Loretz/Phönix	Dexpanthenol concentrate 50%		1
Caleo	Dexpanthenol concentrate 50%	16136503	1
Caolo	Dexpanthenol concentrate 50%	19230702	1
Cealo	Dexpanthenol concentrate 50%	17059203	1
Cealo	Dexpanthenol concentrate 50%	18248001	1
Ebert & Jacobi 01.06...	Dexpanthenol concentrate 50%	16025303	1
Euro OTC	Dexpanthenol concentrate 50%	15142902	1
Euro OTC	Dexpanthenol concentrate 50%	15408003	2
Euro OTC	Dexpanthenol concentrate 50%	16333603	2
Euro OTC	Dexpanthenol concentrate 50%	17059203	1
Euro OTC	Dexpanthenol concentrate 50%	17326101	1
Euro OTC	Dexpanthenol concentrate 50%	18247901	1
Fagron	Dexpanthenol concentrate 50%	14198103	1
Fagron	Dexpanthenol concentrate 50%	16333603	1
Fagron	Dexpanthenol concentrate 50%	17059202	1
Fagron	Dexpanthenol concentrate 50%	17194601	1
Fagron	Dexpanthenol concentrate 50%	17194602	1
Fagron	Dexpanthenol concentrate 50%	18131402	1
Fiebig	Dexpanthenol concentrate 50%	2000306801	1
Finteler Apotheke	Dexpanthenol concentrate 50%	17031303	1
für Röntgen/Phönix	Dexpanthenol concentrate 50%	17194601	5
Gehe 17.06.2014	Dexpanthenol concentrate 50%	13382102	1
gehe 31.01.2014	Dexpanthenol concentrate 50%	13068004	1
Gehe/Hedinger	Dexpanthenol concentrate 50%	18248001	1
Gehe	Dexpanthenol concentrate 50%	11358204	1
Gehe	Dexpanthenol concentrate 50%	13019203	1
Gehe	Dexpanthenol concentrate 50%	13019204	1
Gehe	Dexpanthenol concentrate 50%	14373302	1
Gehe	Dexpanthenol concentrate 50%	15050802	1
Gehe	Dexpanthenol concentrate 50%	16333602	1
Gehe	Dexpanthenol concentrate 50%	17059203	1
GEHE	Dexpanthenol concentrate 50%	17326102	1
Gehe	Dexpanthenol concentrate 50%	18050803	1
Gehe	Dexpanthenol concentrate 50%	18131301	1
Gehe	Dexpanthenol concentrate 50%	18248001	1
Gehe	Dexpanthenol concentrate 50%	19058102	1
Gehe	Dexpanthenol concentrate 50%	19106202	1
Gehe	Dexpanthenol concentrate 50%	20001533002	1
Gehe	Dexpanthenol concentrate 50%	20003068001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Dexpanthenol concentrate 50%	20004286002	1
Kehr	Dexpanthenol concentrate 50%	18050803	3
Lamotte/ Sanacorp	Dexpanthenol concentrate 50%	17326102	1
Lamotte	Dexpanthenol concentrate 50%	AP83943088Q0P	1
Nachprüfung	Dexpanthenol concentrate 50%	13019203	1
Nachprüfung	Dexpanthenol concentrate 50%	15142902	1
Noweda 21.10.2019	Dexpanthenol concentrate 50%	19140303	1
Noweda	Dexpanthenol concentrate 50%	12171802	1
Noweda	Dexpanthenol concentrate 50%	12340302	1
Noweda	Dexpanthenol concentrate 50%	12340303	2
Noweda	Dexpanthenol concentrate 50%	15196202	1
Noweda	Dexpanthenol concentrate 50%	15408002	1
Noweda	Dexpanthenol concentrate 50%	18248001	1
Noweda	Dexpanthenol concentrate 50%	19106204	1
Noweda	Dexpanthenol concentrate 50%	19158302	1
Noweda	Dexpanthenol concentrate 50%	21003119001	1
Noweda_01.08.2019	Dexpanthenol concentrate 50%	19106202	1
Phoenix	Dexpanthenol concentrate 50%	18131402	1
Phoenix	Dexpanthenol concentrate 50%	18247901	1
Phoenix	Dexpanthenol concentrate 50%	19106201	1
Phoenix	Dexpanthenol concentrate 50%	19230701	1
Phoenix	Dexpanthenol concentrate 50%	20000752001	3
Phoenix	Dexpanthenol concentrate 50%	2000153002	1
Phoenix	Dexpanthenol concentrate 50%	20003069002	1
Phoenix	Dexpanthenol concentrate 50%	20004284001	1
Phoenix	Dexpanthenol concentrate 50%	20004286002	1
Phoenix	Dexpanthenol concentrate 50%	21001588002	1
Phönix	Dexpanthenol concentrate 50%	16248301	1
Phönix	Dexpanthenol concentrate 50%	18050802	1
Phönix	Dexpanthenol concentrate 50%	19140301	2
Phönix	Dexpanthenol concentrate 50%	19230701	3
Phönix	Dexpanthenol concentrate 50%	19230702	2
Phönix	Dexpanthenol concentrate 50%	20001533003	1
Raben-Apotheke Mildenau	Dexpanthenol concentrate 50%	14116302	1
Rondell Apotheke	Dexpanthenol concentrate 50%	15331404	1
Sanacorp	Dexpanthenol concentrate 50%		1
Sanacorp	Dexpanthenol concentrate 50%	12340302	1
sanacorp	Dexpanthenol concentrate 50%	14116301	1
Sanacorp	Dexpanthenol concentrate 50%	14116302	1
sanacorp	Dexpanthenol concentrate 50%	14198103	1
Sanacorp	Dexpanthenol concentrate 50%	16136505	1
Sanacorp	Dexpanthenol concentrate 50%	17326101	1
Sanacorp	Dexpanthenol concentrate 50%	18050802	1
Sanacorp	Dexpanthenol concentrate 50%	1805083	1
Sanacorp	Dexpanthenol concentrate 50%	18131301	1
Sanacorp	Dexpanthenol concentrate 50%	19106201	1
Sanacorp	Dexpanthenol concentrate 50%	19106202	1
Sanacorp	Dexpanthenol concentrate 50%	19106204	1
Sanacorp	Dexpanthenol concentrate 50%	19140303	1
Sanacorp	Dexpanthenol concentrate 50%	19230601	1
Sanacorp	Dexpanthenol concentrate 50%	19230702	1
Sanacorp	Dexpanthenol concentrate 50%	21001588001	2
Sanacorp	Dexpanthenol concentrate 50%	AKD29	1
Sanakop	Dexpanthenol concentrate 50%	18050802	1
Sonnenberg-Apotheke	Dexpanthenol concentrate 50%	13305004	1
Taoasis	Dexpanthenol concentrate 50%	18050804	1
VDL	Dexpanthenol concentrate 50%	14020804	1

- 295 389 spectra from 1324 *Apo-Ident* customers from a total of 52 804 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Dexpanthenol concentrate 50%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Dexpanthenol concentrate 50%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	360	0	68 139
Type B	0	640	0	110 673
Type C	0	2052	17	295 389

The substance/substance group *Dexpanthenol concentrate 50%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.3333 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.0625 %)
Type C	100.0000 % (> 99.6875 %)	99.1783 % (> 99.0333 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Dexpanthenol concentrate 50%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dexpanthenol	21.71	–
Propylene glycol	34.32	–
1,3-butanediol	93.49	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Dexpanthenol concentrate 50%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30664	34533	15.31	50.66
31835	32579	2.75	49.24
31879	31879	0.00	40.78
32579	32579	0.00	47.92
33974	33974	0.00	44.90
33975	33975	0.00	46.62
34130	31879	2.34	42.25
34533	34533	0.00	44.14

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Dextrorotary lactic acid 20%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30740-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Dextrorotary lactic acid 20%; Acidum L (+)-lacticum 20%

Special notes

When selecting the *Dextrorotary lactic acid 20%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Dextrorotary lactic acid 20%	5	3	15

Second-stage model

For differentiation of the substance/substance group *Dextrorotary lactic acid 20%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Dextrorotary lactic acid 20%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Dextrorotary lac...	12105501	30740	40	1405101
Caelo	Dextrorotary lac...	15113303	31720	60	20150622
Caelo	Dextrorotary lac...	161639	32341	40	20160805*
Caelo	Dextrorotary lac...	162572	33318	40	20170216*
Caelo	Dextrorotary lac...	191837	34731	40	20191014*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 220 spectra of 5 reference samples from the substance/substance group *Dextrorotary lactic acid 20%*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 279 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Dextrorotary lactic acid 20%*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Dextrorotary lactic acid 20%	172086	33711	40
Caelo	Dextrorotary lactic acid 20%	181763	34343	40
Caelo	Dextrorotary lactic acid 20%	20000754	35016	40
Caelo	Dextrorotary lactic acid 20%	172086	34083	40

- 111 153 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 90 spectra from 14 *Apo-Ident* customers from 18 batches from the substance/substance group *Dextrorotary lactic acid 20%*.

- Among them are spectra of independent samples from 15 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Dextrorotary lactic acid 20%	15113303	3
Caelo	Dextrorotary lactic acid 20%	15334302	1
Caelo	Dextrorotary lactic acid 20%	16163901	1
Caelo	Dextrorotary lactic acid 20%	162572	6
Caelo	Dextrorotary lactic acid 20%	16257201	2
Caelo	Dextrorotary lactic acid 20%	16257206	3
Caelo	Dextrorotary lactic acid 20%	172086	13
Caelo	Dextrorotary lactic acid 20%	17208601	1
Caelo	Dextrorotary lactic acid 20%	17208603	6
Caelo	Dextrorotary lactic acid 20%	17208605	4
Caelo	Dextrorotary lactic acid 20%	181763	31
Caelo	Dextrorotary lactic acid 20%	18176303	4
Caelo	Dextrorotary lactic acid 20%	18176304	1
Caelo	Dextrorotary lactic acid 20%	18176308	1
Caelo	Dextrorotary lactic acid 20%	191837	10
Caelo	Dextrorotary lactic acid 20%	19183703	1
Caelo	Dextrorotary lactic acid 20%	20000754001	1
Caesar & Loretz GmbH	Dextrorotary lactic acid 20%	18176302	1

- 297 368 spectra from 1324 *Apo-Ident* customers from a total of 52 969 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Dextrorotary lactic acid 20%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Dextrorotary lactic acid 20%* and it was evaluated how many matches (positive) and rejections (negative) were correct

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	220	0	68 279
Type B	0	160	0	111 153
Type C	0	88	2	297 368

The substance/substance group *Dextrorotary lactic acid 20%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.2727 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6876 %)	97.7778 % (> 94.4444 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Dextrorotary lactic acid 20%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Aluminium acetotartrate solution	17.13	–
Chlorhexidine digluconate solution	22.86	–
Hydrophilic base emulsion (NRF p.25)	23.33	–
Water	33.79	–
Non-ionic hydrous liniment SR/DAC (NRF…	34.51	–
Gel basis Audor®	35.89	–
Chest elixir	36.13	–
Polyhexanide solution 20%	36.89	–
Oral suspension base	41.34	–
Hydrated liniment SR/DAC (NRF p.40)	41.95	–
Hydrophilic cream, non-ionic SR (NRF p…	43.48	–
Acetic acid 30%	44.19	–
Glycolic acid 70%	45.95	–
Hydrophilic cream, non-ionic without p…	48.29	–
Anionic hydrophlic cream without prese…	51.21	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Dextrorotary lactic acid 20%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30740	30740	0.00	19.15
31720	30740	3.64	17.13
32341	32341	0.00	18.19
33318	33318	0.00	20.62
34731	34731	0.00	18.68

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Dimethyl sulfoxide**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31498-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Dimethyl sulfoxide; Dimethylis sulfoxidum

Special notes

When selecting the *Dimethyl sulfoxide* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Dimethyl sulfoxide	9	26	273

Second-stage model

For differentiation of the substance/substance group *Dimethyl sulfoxide* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Dimethyl sulfoxide*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Dimethyl sulfoxide	181976	34221	40	20180815*
Caelo	Dimethyl sulfoxide	20003727003	35285	40	20201118
Euro OTC	Dimethyl sulfoxide	131000802	31498	60	AR-15-FG-002774-01
Euro OTC	Dimethyl sulfoxide	1508018	31734	60	0000010817
Euro OTC	Dimethyl sulfoxide	1511013	31803	60	20151124*
Euro OTC	Dimethyl sulfoxide	1511028	31813	60	20151202*
Euro OTC	Dimethyl sulfoxide	1601048	31848	60	20160129*
Euro OTC	Dimethyl sulfoxide	1604010	32280	40	20160513*
Fagron	Dimethyl sulfoxide	15A16-C01-16194	31732	60	20150130

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 480 spectra of 9 reference samples from the substance/substance group *Dimethyl sulfoxide*. These samples are listed above in the *calibration samples* section. The reference samples come from 9 different batches.
- 68 019 spectra from a total of 1404 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 1070 spectra of 26 reference samples from the substance/substance group *Dimethyl sulfoxide*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 26 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Dimethyl sulfoxide	21001308	35551	60
Euro OTC	Dimethyl sulfoxide	1606007	32460	40
Euro OTC	Dimethyl sulfoxide	1608009	32707	40
Euro OTC	Dimethyl sulfoxide	1608029	32708	40
Euro OTC	Dimethyl sulfoxide	1609006	32713	40
Euro OTC	Dimethyl sulfoxide	1610015	32835	40
Euro OTC	Dimethyl sulfoxide	1701006	33233	40
Euro OTC	Dimethyl sulfoxide	1705025	33451	40
Euro OTC	Dimethyl sulfoxide	1705005	33452	40
Euro OTC	Dimethyl sulfoxide	1709010	33666	40
Euro OTC	Dimethyl sulfoxide	1710001	33667	40
Euro OTC	Dimethyl sulfoxide	1801008	33925	40
Euro OTC	Dimethyl sulfoxide	1711020	33933	40
Euro OTC	Dimethyl sulfoxide	1803015	34097	40
Euro OTC	Dimethyl sulfoxide	1805002	34181	40
Euro OTC	Dimethyl sulfoxide	1806021	34193	40
Euro OTC	Dimethyl sulfoxide	1808012	34216	40
Euro OTC	Dimethyl sulfoxide	1809024	34301	40
Euro OTC	Dimethyl sulfoxide	1809025	34305	40
Euro OTC	Dimethyl sulfoxide	1902028	34427	40
Euro OTC	Dimethyl sulfoxide	1903021	34494	40
Euro OTC	Dimethyl sulfoxide	1906016	34657	40
Euro OTC	Dimethyl sulfoxide	1908024	34698	40
Euro OTC	Dimethyl sulfoxide	2007016	35059	40
Euro OTC	Dimethyl sulfoxide	2108002	35901	50
Euro OTC	Dimethyl sulfoxide	2203015	36368	40

- 110 243 spectra from a total of 2640 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 2546 spectra from 807 *Apo-Ident* customers from 279 batches from the substance/substance group *Dimethyl sulfoxide*.

- Among them are spectra of independent samples from 268 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Dimethyl sulfoxide	1306010-02	1
	Dimethyl sulfoxide	1411039-02	1
	Dimethyl sulfoxide	1903021-02	1
AHC	Dimethyl sulfoxide	1906016-01	1
AHD,17.10.13	Dimethyl sulfoxide	1306010-02	1
AHD	Dimethyl sulfoxide	151102801	1
AHD	Dimethyl sulfoxide	1906016-02	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Alliance Healthcare	Dimethyl sulfoxide	1210059-01	1
Alliance Healthcare	Dimethyl sulfoxide	1604010-01	1
Alliance Healthcare	Dimethyl sulfoxide	SYN190114	1
Alliance	Dimethyl sulfoxide	1601048-02	1
Alliance	Dimethyl sulfoxide	1606007-01	1
Alliance	Dimethyl sulfoxide	1705025-01	1
Alliance	Dimethyl sulfoxide	SYN190325	1
Allianz Healthcare	Dimethyl sulfoxide	1808012-01	1
Alte Apotheke	Dimethyl sulfoxide	1606007-01	1
Anzag	Dimethyl sulfoxide	1606007-01	2
apo ident	Dimethyl sulfoxide	1610015-01	1
apo-ident/ AHD	Dimethyl sulfoxide	1808012-01	1
apoident/AHD	Dimethyl sulfoxide	1906016-01	1
Apo-ident/Alliance	Dimethyl sulfoxide	1906016-01	6
apo-ident/Noweda	Dimethyl sulfoxide	1903021-01	1
Apoident/Noweda	Dimethyl sulfoxide	2007016-02	1
apo-ident	Dimethyl sulfoxide	1609006-01	1
apo-ident	Dimethyl sulfoxide	1705025-01	1
apo-ident	Dimethyl sulfoxide	1805002-02	2
apoident	Dimethyl sulfoxide	1806021-01	1
apo-ident	Dimethyl sulfoxide	1806021-01	1
Apo-Ident	Dimethyl sulfoxide	2203015-01	1
apomix	Dimethyl sulfoxide	2007016-01	1
apotec	Dimethyl sulfoxide	1805002-01	1
Audor Pharma	Dimethyl sulfoxide	1111059-01D	1
Audor Pharma	Dimethyl sulfoxide	1306010-01D	1
Audor Pharma	Dimethyl sulfoxide	AP1210059-01D	1
Audor Pharma	Dimethyl sulfoxide	AP1303010-01D	1
Audor Pharma	Dimethyl sulfoxide	AP1306010-01D	3
Bombastus	Dimethyl sulfoxide	1601048-02	1
Bombastus	Dimethyl sulfoxide	1606007-01	2
Bombastus	Dimethyl sulfoxide	1705025-01	1
Bombastus	Dimethyl sulfoxide	1710001-01	1
Bombastus	Dimethyl sulfoxide	1805002	1
Caelo	Dimethyl sulfoxide	106007-01	1
Caelo	Dimethyl sulfoxide	1206010-01	1
Caelo	Dimethyl sulfoxide	1210059-01	1
Caelo	Dimethyl sulfoxide	129908003	1
Caelo	Dimethyl sulfoxide	1306010-01	3
Caelo	Dimethyl sulfoxide	130601002	1
Caelo	Dimethyl sulfoxide	1306010-02	1
Caelo	Dimethyl sulfoxide	131000801	1
Caelo	Dimethyl sulfoxide	1310008-02	1
Caelo	Dimethyl sulfoxide	140403101	1
Caelo	Dimethyl sulfoxide	1404031-01	3
Caelo	Dimethyl sulfoxide	1404031-02	1
Caelo	Dimethyl sulfoxide	1411039-02	2
Caelo	Dimethyl sulfoxide	1505021-01	1
Caelo	Dimethyl sulfoxide	1508018-01	3
Caelo	Dimethyl sulfoxide	1508018-02	5
Caelo	Dimethyl sulfoxide	1511028-01	1
Caelo	Dimethyl sulfoxide	160015-02	1
Caelo	Dimethyl sulfoxide	1601048-01	1
Caelo	Dimethyl sulfoxide	1601048-02	1
Caelo	Dimethyl sulfoxide	1606007-01	3
Caelo	Dimethyl sulfoxide	1609006-01	2
Caelo	Dimethyl sulfoxide	1610015_02	1
Caelo	Dimethyl sulfoxide	1610015-01	2
Caelo	Dimethyl sulfoxide	161001502	2
Caelo	Dimethyl sulfoxide	1610015-02	8

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dimethyl sulfoxide	1705025	2
Caelo	Dimethyl sulfoxide	1705025-01	4
Caelo	Dimethyl sulfoxide	17075702	1
Caelo	Dimethyl sulfoxide	170901001	1
Caelo	Dimethyl sulfoxide	171000101	1
Caelo	Dimethyl sulfoxide	1710001-01	2
Caelo	Dimethyl sulfoxide	1711020-01	4
Caelo	Dimethyl sulfoxide	17111806	1
Caelo	Dimethyl sulfoxide	1805002-01	3
Caelo	Dimethyl sulfoxide	180500202	1
Caelo	Dimethyl sulfoxide	1806021-01	4
Caelo	Dimethyl sulfoxide	1808012-01	5
Caelo	Dimethyl sulfoxide	1809024-01	3
Caelo	Dimethyl sulfoxide	18197601	7
Caelo	Dimethyl sulfoxide	18197602	6
Caelo	Dimethyl sulfoxide	18197609	1
Caelo	Dimethyl sulfoxide	18197610	2
Caelo	Dimethyl sulfoxide	18197615	3
Caelo	Dimethyl sulfoxide	18197616	2
Caelo	Dimethyl sulfoxide	18197617	3
Caelo	Dimethyl sulfoxide	18197620	3
Caelo	Dimethyl sulfoxide	18197621	9
Caelo	Dimethyl sulfoxide	1903021-01	2
Caelo	Dimethyl sulfoxide	1903021-02	1
Caelo	Dimethyl sulfoxide	190616-01	1
Caelo	Dimethyl sulfoxide	192208002	10
Caelo	Dimethyl sulfoxide	192208003	12
Caelo	Dimethyl sulfoxide	192208004	1
Caelo	Dimethyl sulfoxide	192208005	9
Caelo	Dimethyl sulfoxide	192208006	2
Caelo	Dimethyl sulfoxide	19220801	2
Caelo	Dimethyl sulfoxide	19220802	5
Caelo	Dimethyl sulfoxide	19220803	2
Caelo	Dimethyl sulfoxide	19220804	2
Caelo	Dimethyl sulfoxide	200003727003	1
Caelo	Dimethyl sulfoxide	20001543010	1
Caelo	Dimethyl sulfoxide	20002329001	1
Caelo	Dimethyl sulfoxide	20002329003	9
Caelo	Dimethyl sulfoxide	2000239003	1
Caelo	Dimethyl sulfoxide	20003727003	5
Caelo	Dimethyl sulfoxide	20003727004	3
Caelo	Dimethyl sulfoxide	200701601	1
Caelo	Dimethyl sulfoxide	2007016-01	1
Caelo	Dimethyl sulfoxide	21001308001	4
Caelo	Dimethyl sulfoxide	21001308002	2
Caelo	Dimethyl sulfoxide	2814	1
Caelo	Dimethyl sulfoxide	29081202	1
Caelo	Dimethyl sulfoxide	3256	1
Caelo	Dimethyl sulfoxide	3342	1
Caelo	Dimethyl sulfoxide	3343	1
Caelo	Dimethyl sulfoxide	7111807	1
Caelo	Dimethyl sulfoxide	SYN140623	1
Caelo	Dimethyl sulfoxide	SYN160215	1
Caelo	Dimethyl sulfoxide	SYN170605	1
Caelo	Dimethyl sulfoxide	SYN180319	1
Caeol / Gehe	Dimethyl sulfoxide	1508018-01	1
Caeöo	Dimethyl sulfoxide	1310008-01	1
Caesar & Loretz GmbH / G	Dimethyl sulfoxide	18197621	1
Caesar & Loretz GmbH/AHD	Dimethyl sulfoxide	192208003	1
Caesar & Loretz GmbH/AHD	Dimethyl sulfoxide	19220802	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Dimethyl sulfoxide	1610015-02	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	18197602	2
Caesar & Loretz GmbH	Dimethyl sulfoxide	18197610	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	18197612	2
Caesar & Loretz GmbH	Dimethyl sulfoxide	18197613	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	18197616	2
Caesar & Loretz GmbH	Dimethyl sulfoxide	18197621	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	192208003	10
Caesar & Loretz GmbH	Dimethyl sulfoxide	192208004	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	192208005	15
Caesar & Loretz GmbH	Dimethyl sulfoxide	19220802	4
Caesar & Loretz GmbH	Dimethyl sulfoxide	19220803	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	19220804	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	19220806	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	20002329002	2
Caesar & Loretz GmbH	Dimethyl sulfoxide	20002329003	3
Caesar & Loretz GmbH	Dimethyl sulfoxide	20003727003	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	20003727004	3
Caesar & Loretz GmbH	Dimethyl sulfoxide	21001308001	3
Caesar & Loretz GmbH	Dimethyl sulfoxide	21001308003	1
Caesar & Loretz GmbH	Dimethyl sulfoxide	21001308004	1
Caesar & Loretz Hilden/...	Dimethyl sulfoxide	18197616	1
Caesar & Loretz Hilden/...	Dimethyl sulfoxide	192208003	1
Caesar & Loretz Hilden/...	Dimethyl sulfoxide	192208005	1
Caesar & Loretz Hilden	Dimethyl sulfoxide	18197620	1
Caesar & Loretz Hilden	Dimethyl sulfoxide	192208006	1
Caesar & Loretz Hilden	Dimethyl sulfoxide	19220802	1
Caesar & Loretz/AHD	Dimethyl sulfoxide	20002329002	2
Caesar & Loretz/Noweda	Dimethyl sulfoxide	192208002	1
Caesar & Loretz/Noweda	Dimethyl sulfoxide	20003727004	1
CeloAnzag	Dimethyl sulfoxide	18197602	1
Chemical corp. / Noweda	Dimethyl sulfoxide	1306010-02	1
Chemical Corp./Sanacorp	Dimethyl sulfoxide	1310008-02	1
Chemical Corp.	Dimethyl sulfoxide	1404031-02	1
Ebert 09.08.16 KKH	Dimethyl sulfoxide	1604010-01	1
Ebert 12.08.16	Dimethyl sulfoxide	1604040-01	1
Ebert KKH29.09.16	Dimethyl sulfoxide	16060074-01	1
Eu Rho / Noweda	Dimethyl sulfoxide	2007016-01	2
EuRho / Alliance Health...	Dimethyl sulfoxide	SYN160215	1
EuRho / Gehe	Dimethyl sulfoxide	1908024-01	1
EuRho AHC	Dimethyl sulfoxide	1610015-02	1
EuRho/ Anzag	Dimethyl sulfoxide	220504(2108002-02)	1
Eurho/ Phoenix	Dimethyl sulfoxide	2007016-01	2
EuRho/ Phönix	Dimethyl sulfoxide	1903021-01	1
EuRho/AHD	Dimethyl sulfoxide	2007016-01	1
EuRho/Fiebig	Dimethyl sulfoxide	1903021	1
EuRho/Fiebig	Dimethyl sulfoxide	SYN150525	1
EuRho/Gehe	Dimethyl sulfoxide	1805002-02	1
EuRho/Now	Dimethyl sulfoxide	1710001-01	2
EuRho/Now	Dimethyl sulfoxide	1903021-01	1
EuRho/Noweda	Dimethyl sulfoxide	1601048-01	2
EuRho/Noweda	Dimethyl sulfoxide	1610015-02	1
EuRho/Noweda	Dimethyl sulfoxide	1903021-01	1
EuRho/Phoenix	Dimethyl sulfoxide	1705025-01	4
EuRho/Phoenix	Dimethyl sulfoxide	1711020-01	2
Eurho/Phoenix	Dimethyl sulfoxide	SYN180709	1
EuRho/Phönix	Dimethyl sulfoxide	1310008-02	1
EuRho/Sanacorp	Dimethyl sulfoxide	1610015-02	1
EuRho/Sanacorp	Dimethyl sulfoxide	1805002-01	2
Eurho/Sanacorp	Dimethyl sulfoxide	1805002-02	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Eurho/Sanacorp	Dimethyl sulfoxide	1808012-01	1
Eurho/Sanacorp	Dimethyl sulfoxide	1906016-01	3
EuRho/sanacorp	Dimethyl sulfoxide	1906016-01	1
EuRho	Dimethyl sulfoxide	1111059-02	1
EuRho	Dimethyl sulfoxide	1210059-01	1
EuRho	Dimethyl sulfoxide	1303010-01	1
EuRho	Dimethyl sulfoxide	1411039-02	1
EuRho	Dimethyl sulfoxide	1606007-01	2
EuRho	Dimethyl sulfoxide	1610015-02	1
EuRho	Dimethyl sulfoxide	1705025	1
EuRho	Dimethyl sulfoxide	1709010-01	1
eurho	Dimethyl sulfoxide	170901010-01	1
EuRho	Dimethyl sulfoxide	1805002-02	1
EuRho	Dimethyl sulfoxide	1809024-01	2
EuRHo	Dimethyl sulfoxide	1809024-01	1
EuRho	Dimethyl sulfoxide	1903021-01	1
EuRho	Dimethyl sulfoxide	1906016-01	2
EuRho	Dimethyl sulfoxide	1906016-02	1
EuRho	Dimethyl sulfoxide	1908024-01	4
EuRho	Dimethyl sulfoxide	2007016-01	2
EuRho	Dimethyl sulfoxide	SYN160216	1
Euro OT/Phönix	Dimethyl sulfoxide	SYN1608022	1
Euro OTC	Dimethyl sulfoxide		4
Euro OTC	Dimethyl sulfoxide	1(1806021-01)	1
Euro OTC	Dimethyl sulfoxide	1004041-01	1
Euro OTC	Dimethyl sulfoxide	1017Q-01336	1
Euro OTC	Dimethyl sulfoxide	110600601	1
Euro OTC	Dimethyl sulfoxide	1106006-01	4
Euro OTC	Dimethyl sulfoxide	1207008-01	2
Euro OTC	Dimethyl sulfoxide	1207008-02	1
Euro OTC	Dimethyl sulfoxide	121005901	1
Euro OTC	Dimethyl sulfoxide	1210059-01	18
Euro OTC	Dimethyl sulfoxide	12101202	1
Euro OTC	Dimethyl sulfoxide	130008-01	1
Euro OTC	Dimethyl sulfoxide	13003010-01	1
Euro OTC	Dimethyl sulfoxide	13011403	1
Euro OTC	Dimethyl sulfoxide	1303010-01	15
Euro OTC	Dimethyl sulfoxide	130601001	2
Euro OTC	Dimethyl sulfoxide	1306010-01	26
Euro OTC	Dimethyl sulfoxide	1306010-02	21
Euro OTC	Dimethyl sulfoxide	13063010-01	1
Euro OTC	Dimethyl sulfoxide	131000801	1
Euro OTC	Dimethyl sulfoxide	1310008-01	12
Euro OTC	Dimethyl sulfoxide	1310008-02	8
Euro OTC	Dimethyl sulfoxide	1404031	1
Euro OTC	Dimethyl sulfoxide	1404031-01	10
Euro OTC	Dimethyl sulfoxide	140403102	1
Euro OTC	Dimethyl sulfoxide	1404031-02	13
Euro OTC	Dimethyl sulfoxide	14051404	1
Euro OTC	Dimethyl sulfoxide	141039-02	1
Euro OTC	Dimethyl sulfoxide	1411039_01	1
Euro OTC	Dimethyl sulfoxide	1411039-01	21
Euro OTC	Dimethyl sulfoxide	141103902	2
Euro OTC	Dimethyl sulfoxide	1411039-02	11
Euro OTC	Dimethyl sulfoxide	1411039-2	1
Euro OTC	Dimethyl sulfoxide	14111039-01	1
Euro OTC	Dimethyl sulfoxide	14H28-M01	2
Euro OTC	Dimethyl sulfoxide	15011503	1
Euro OTC	Dimethyl sulfoxide	1505021	1
Euro OTC	Dimethyl sulfoxide	1505021-01	16

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Dimethyl sulfoxide	1508012-02	1
Euro OTC	Dimethyl sulfoxide	1508013-01	1
Euro OTC	Dimethyl sulfoxide	150801801	1
Euro OTC	Dimethyl sulfoxide	1508018-01	32
Euro OTC	Dimethyl sulfoxide	150801802	1
Euro OTC	Dimethyl sulfoxide	1508018-02	28
Euro OTC	Dimethyl sulfoxide	151102801	2
Euro OTC	Dimethyl sulfoxide	1511028-01	6
Euro OTC	Dimethyl sulfoxide	15111028-01	1
Euro OTC	Dimethyl sulfoxide	160048-02	1
Euro OTC	Dimethyl sulfoxide	1601048	1
Euro OTC	Dimethyl sulfoxide	160104801	2
Euro OTC	Dimethyl sulfoxide	1601048-01	15
Euro OTC	Dimethyl sulfoxide	1601048-02	11
Euro OTC	Dimethyl sulfoxide	160401001	2
Euro OTC	Dimethyl sulfoxide	1604010-01	29
Euro OTC	Dimethyl sulfoxide	1606007	1
Euro OTC	Dimethyl sulfoxide	1606007-01	46
Euro OTC	Dimethyl sulfoxide	1606016-01	1
Euro OTC	Dimethyl sulfoxide	160900601	1
Euro OTC	Dimethyl sulfoxide	1609006-01	27
Euro OTC	Dimethyl sulfoxide	16099006-01	1
Euro OTC	Dimethyl sulfoxide	1610015-01	40
Euro OTC	Dimethyl sulfoxide	161001502	2
Euro OTC	Dimethyl sulfoxide	1610015-02	66
Euro OTC	Dimethyl sulfoxide	161005-01	1
Euro OTC	Dimethyl sulfoxide	16110015-02	1
Euro OTC	Dimethyl sulfoxide	169006-01	1
Euro OTC	Dimethyl sulfoxide	170001-01	1
Euro OTC	Dimethyl sulfoxide	17015025-01	1
Euro OTC	Dimethyl sulfoxide	170502	1
Euro OTC	Dimethyl sulfoxide	1705025	3
Euro OTC	Dimethyl sulfoxide	170502501	3
Euro OTC	Dimethyl sulfoxide	1705025-01	62
Euro OTC	Dimethyl sulfoxide	170505-01	1
Euro OTC	Dimethyl sulfoxide	170522DS/1610015-01	1
Euro OTC	Dimethyl sulfoxide	170901001	3
Euro OTC	Dimethyl sulfoxide	1709010-01	59
Euro OTC	Dimethyl sulfoxide	1709010-010	1
Euro OTC	Dimethyl sulfoxide	1709090-01	1
Euro OTC	Dimethyl sulfoxide	171000-01	1
Euro OTC	Dimethyl sulfoxide	17100001-01	1
Euro OTC	Dimethyl sulfoxide	1710001_01	1
Euro OTC	Dimethyl sulfoxide	1710001-01	59
Euro OTC	Dimethyl sulfoxide	171001-01	1
Euro OTC	Dimethyl sulfoxide	1711020	1
Euro OTC	Dimethyl sulfoxide	171102001	3
Euro OTC	Dimethyl sulfoxide	1711020-01	76
Euro OTC	Dimethyl sulfoxide	175025-01	1
Euro OTC	Dimethyl sulfoxide	17525-01	1
Euro OTC	Dimethyl sulfoxide	17F28-B04	1
Euro OTC	Dimethyl sulfoxide	18016016-02	1
Euro OTC	Dimethyl sulfoxide	1804621-01	1
Euro OTC	Dimethyl sulfoxide	180500-02	1
Euro OTC	Dimethyl sulfoxide	1805002	1
Euro OTC	Dimethyl sulfoxide	180500201	3
Euro OTC	Dimethyl sulfoxide	1805002-01	60
Euro OTC	Dimethyl sulfoxide	180500202	4
Euro OTC	Dimethyl sulfoxide	1805002-02	53
Euro OTC	Dimethyl sulfoxide	1806012-01	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Dimethyl sulfoxide	180602-01	1
Euro OTC	Dimethyl sulfoxide	180602101	4
Euro OTC	Dimethyl sulfoxide	1806021-01	62
Euro OTC	Dimethyl sulfoxide	180801201	1
Euro OTC	Dimethyl sulfoxide	1808012-01	58
Euro OTC	Dimethyl sulfoxide	1809024	1
Euro OTC	Dimethyl sulfoxide	180902401	1
Euro OTC	Dimethyl sulfoxide	1809024-01	63
Euro OTC	Dimethyl sulfoxide	1809024-21	1
Euro OTC	Dimethyl sulfoxide	1813A-01336	1
Euro OTC	Dimethyl sulfoxide	189024-01	1
Euro OTC	Dimethyl sulfoxide	190024-01	1
Euro OTC	Dimethyl sulfoxide	19011906	1
Euro OTC	Dimethyl sulfoxide	1902024-01	1
Euro OTC	Dimethyl sulfoxide	1903021	5
Euro OTC	Dimethyl sulfoxide	190302101	1
Euro OTC	Dimethyl sulfoxide	1903021-01	88
Euro OTC	Dimethyl sulfoxide	190302102	2
Euro OTC	Dimethyl sulfoxide	1903021-02	102
Euro OTC	Dimethyl sulfoxide	1903021-21	1
Euro OTC	Dimethyl sulfoxide	19030221-02	1
Euro OTC	Dimethyl sulfoxide	1906016	5
Euro OTC	Dimethyl sulfoxide	190601601	5
Euro OTC	Dimethyl sulfoxide	1906016-01	136
Euro OTC	Dimethyl sulfoxide	1906016-01/P04121922	1
Euro OTC	Dimethyl sulfoxide	190601602	4
Euro OTC	Dimethyl sulfoxide	1906016-02	114
Euro OTC	Dimethyl sulfoxide	1906016-03	13
Euro OTC	Dimethyl sulfoxide	1906016-1	1
Euro OTC	Dimethyl sulfoxide	19060616-01	1
Euro OTC	Dimethyl sulfoxide	19061016-02	1
Euro OTC	Dimethyl sulfoxide	190616-02	1
Euro OTC	Dimethyl sulfoxide	190802401	3
Euro OTC	Dimethyl sulfoxide	1908024-01	43
Euro OTC	Dimethyl sulfoxide	1930321-02	1
Euro OTC	Dimethyl sulfoxide	20070016-02	1
Euro OTC	Dimethyl sulfoxide	200701601	2
Euro OTC	Dimethyl sulfoxide	2007016-01	129
Euro OTC	Dimethyl sulfoxide	2007016-02	8
Euro OTC	Dimethyl sulfoxide	2071301	1
Euro OTC	Dimethyl sulfoxide	210800201	1
Euro OTC	Dimethyl sulfoxide	2108002-01	8
Euro OTC	Dimethyl sulfoxide	2108002-02	8
Euro OTC	Dimethyl sulfoxide	220301501	1
Euro OTC	Dimethyl sulfoxide	2203015-01	2
Euro OTC	Dimethyl sulfoxide	26011301	1
Euro OTC	Dimethyl sulfoxide	29091809	1
Euro OTC	Dimethyl sulfoxide	3457	1
Euro OTC	Dimethyl sulfoxide	4817A-01336	1
Euro OTC	Dimethyl sulfoxide	5111303	1
Euro OTC	Dimethyl sulfoxide	5121810	1
Euro OTC	Dimethyl sulfoxide	6021902	1
Euro OTC	Dimethyl sulfoxide	613A-01336	1
Euro OTC	Dimethyl sulfoxide	700119	4
Euro OTC	Dimethyl sulfoxide	7016-012	1
Euro OTC	Dimethyl sulfoxide	815M-01336	1
Euro OTC	Dimethyl sulfoxide	8597061	1
Euro OTC	Dimethyl sulfoxide	EuroOTCPharma	1
Euro OTC	Dimethyl sulfoxide	P-04121922/1906016-01	1
Euro OTC	Dimethyl sulfoxide	P14021926/1805002-01	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Dimethyl sulfoxide	PHS111205	1
Euro OTC	Dimethyl sulfoxide	SYN140623	1
Euro OTC	Dimethyl sulfoxide	SYN160201	1
Euro OTC	Dimethyl sulfoxide	SYN160215	3
Euro OTC	Dimethyl sulfoxide	SYN170605	2
Euro OTC	Dimethyl sulfoxide	SYN170717	3
Euro OTC	Dimethyl sulfoxide	SYN180319	5
Euro OTC	Dimethyl sulfoxide	SYN190114	4
Euro OTC	Dimethyl sulfoxide	SYN190325	3
Euro OTC	Dimethyl sulfoxide	SYN190715	1
Euro OTC	Dimethyl sulfoxide	SYN191125	4
Euro OTC	Dimethyl sulfoxide	SYN210524	3
Euro OTG/ AHD	Dimethyl sulfoxide	1411039-02	1
Euro OTG/ AHD	Dimethyl sulfoxide	1705025-01	3
Euro OTG/ AHD	Dimethyl sulfoxide	1711020-01	1
Euro RHO/Jenne	Dimethyl sulfoxide	1906016-01	1
Euro/ Fiebig	Dimethyl sulfoxide	1306010-02	1
Euro/ Gehe	Dimethyl sulfoxide	1404031-02	1
Euro/ Phönix	Dimethyl sulfoxide	1711020-01	1
euro//Noweda	Dimethyl sulfoxide	1705025-01	2
Euro/Gehe	Dimethyl sulfoxide	1601048-01	1
Euro/Noweda	Dimethyl sulfoxide	1610015-01	1
Euro/phö	Dimethyl sulfoxide	1906016-02	1
Euro/phönix	Dimethyl sulfoxide	1411039-01	1
Euro/Phönix	Dimethyl sulfoxide	1711020-01	1
Euro/Phönix	Dimethyl sulfoxide	1805002-01	1
Euro/Phönix	Dimethyl sulfoxide	1903021-02	1
EURO/Sana	Dimethyl sulfoxide	1906016-01	1
Euro/Sanacorp	Dimethyl sulfoxide	1906016-02	1
Euro/Sanacorp	Dimethyl sulfoxide	2007016-01	1
Euro	Dimethyl sulfoxide	140403-01	1
euro	Dimethyl sulfoxide	1903021-02	1
euro	Dimethyl sulfoxide	1906016-03	1
Euroct/Gehe	Dimethyl sulfoxide	1508018-02	1
Euro-CTC/Phönix	Dimethyl sulfoxide	1705025-01	1
Euro-CTC/Phönix	Dimethyl sulfoxide	1709010-01	3
EuroOTV / Noweda	Dimethyl sulfoxide	1604010-01	1
europharm/gehe	Dimethyl sulfoxide	1610015-01	1
EuRro/Anzag	Dimethyl sulfoxide	1710001-01	1
Fagron	Dimethyl sulfoxide		1
Fagron	Dimethyl sulfoxide	11E03-M04	2
Fagron	Dimethyl sulfoxide	11G18-N15	1
Fagron	Dimethyl sulfoxide	11K29-N03	1
Fagron	Dimethyl sulfoxide	1306010-02	1
Fagron	Dimethyl sulfoxide	13071201	1
Fagron	Dimethyl sulfoxide	1310008-02	1
Fagron	Dimethyl sulfoxide	1404031-02	1
Fagron	Dimethyl sulfoxide	14H28-M01	2
Fagron	Dimethyl sulfoxide	14H28-M02	1
Fagron	Dimethyl sulfoxide	14H28-M03	1
Fagron	Dimethyl sulfoxide	15A16-C01-16194	2
Fagron	Dimethyl sulfoxide	15A16-C01-16195	2
Fagron	Dimethyl sulfoxide	161001502	1
Fagron	Dimethyl sulfoxide	1610015-02	1
Fagron	Dimethyl sulfoxide	166007-01	1
Fagron	Dimethyl sulfoxide	1705025-01	2
Fagron	Dimethyl sulfoxide	1711020-01	1
Fagron	Dimethyl sulfoxide	1808012-01	2
Fagron	Dimethyl sulfoxide	20002329003	1
Fagron	Dimethyl sulfoxide	27061203	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Dimethyl sulfoxide	Norpren	1
Fiebig	Dimethyl sulfoxide	1809024	1
Fiebig	Dimethyl sulfoxide	1906016-01	2
FIEBIG	Dimethyl sulfoxide	2007016-02	1
Gatt-Koller	Dimethyl sulfoxide	1802552	4
Gayford Chemical/Fiebig...	Dimethyl sulfoxide	1906016-01	1
Gayford Chemical/Gehe	Dimethyl sulfoxide	1805002-01	1
Gayford Chemicals	Dimethyl sulfoxide	1903021-01	1
Gaylord / Fiebig	Dimethyl sulfoxide	1505021-01	1
Gaylord Ch./Fiebig 15.1...	Dimethyl sulfoxide	2007016-02	1
Gaylord Chem / Gehe	Dimethyl sulfoxide	1903021-01	2
Gaylord Chem.co	Dimethyl sulfoxide	1609006-01	1
gaylord chem.USA/Phoenix	Dimethyl sulfoxide	1806021-01	1
Gaylord Chemica Co.	Dimethyl sulfoxide	1906016-01	1
Gaylord Chemical / Gehe	Dimethyl sulfoxide	1805002-02	1
Gaylord Chemical / Gehe	Dimethyl sulfoxide	190321-02	1
Gaylord Chemical / Gehe	Dimethyl sulfoxide	1906016-01	1
Gaylord Chemical /107	Dimethyl sulfoxide	1809024-01	1
Gaylord Chemical /Phönix	Dimethyl sulfoxide	1908024-01	1
Gaylord Chemical Co./ P...	Dimethyl sulfoxide	1906016-02	1
Gaylord Chemical CO.	Dimethyl sulfoxide	2007016-01	1
Gaylord Chemical Corp./...	Dimethyl sulfoxide	1508018-02	2
Gaylord Chemical Corp./...	Dimethyl sulfoxide	1508018-01	1
Gaylord Chemical Corpor...	Dimethyl sulfoxide	1610015-02	1
Gaylord Chemical Corpor...	Dimethyl sulfoxide	1808012-01	1
gaylord chemical corpor...	Dimethyl sulfoxide	1711020-01	2
Gaylord Chemical Corpor...	Dimethyl sulfoxide	SYN180319	1
Gaylord Chemical Corpor...	Dimethyl sulfoxide	1805002-02	1
Gaylord Chemical USA / ...	Dimethyl sulfoxide	1906016-01	1
Gaylord Chemical, Allia...	Dimethyl sulfoxide	1906016-01	1
GAYLORD CHEMICAL	Dimethyl sulfoxide	1903021-01	1
Gaylord chemical	Dimethyl sulfoxide	1906016-01	1
Gaylord Chemical	Dimethyl sulfoxide	1906016-01	1
Gaylord CHEMICAL	Dimethyl sulfoxide	1906016-01	1
GAYLORD CHEMICAL	Dimethyl sulfoxide	1906016-01	1
Gaylord Chemical7 Anzag	Dimethyl sulfoxide	1906016-02	1
Gaylord ChemicalCorp./ ...	Dimethyl sulfoxide	1404031-02	1
Gaylord/Phoenix	Dimethyl sulfoxide	1906016-01	1
Gaylord/Phoenix	Dimethyl sulfoxide	SYN190325	1
Gaylord/Sanacorp 28.08.14	Dimethyl sulfoxide	1404031-01	1
Gaylord/Sanacorp	Dimethyl sulfoxide	1306010-01	1
gaylord	Dimethyl sulfoxide	1210059-01	1
Gaylord	Dimethyl sulfoxide	1709010-01	1
gehe 07.01.2014	Dimethyl sulfoxide	1306010-02	2
Gehe/EuRo	Dimethyl sulfoxide	1609006-01	1
Gehe	Dimethyl sulfoxide	1111059-01	1
Gehe	Dimethyl sulfoxide	1111059-02	1
Gehe	Dimethyl sulfoxide	131000802	1
Gehe	Dimethyl sulfoxide	1411039-02	1
Gehe	Dimethyl sulfoxide	1508018-02	1
Gehe	Dimethyl sulfoxide	1604010-01	1
Gehe	Dimethyl sulfoxide	160600701	2
Gehe	Dimethyl sulfoxide	1606007-01	1
GEHE	Dimethyl sulfoxide	1610015-01	1
Gehe	Dimethyl sulfoxide	1610015-1	1
Gehe	Dimethyl sulfoxide	1710000101	1
GEHE	Dimethyl sulfoxide	1805002-01	1
Gehe	Dimethyl sulfoxide	1805002-02	2
Gehe	Dimethyl sulfoxide	1808012-01	1
Gehe	Dimethyl sulfoxide	180812-01	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Dimethyl sulfoxide	1903021-01	1
Gehe	Dimethyl sulfoxide	1903021-02	2
GEHE	Dimethyl sulfoxide	1903021-02	1
Gehe	Dimethyl sulfoxide	1906016-01	3
Gehe	Dimethyl sulfoxide	UPS140203	1
Hänseler	Dimethyl sulfoxide		1
Hedinger/Noweda	Dimethyl sulfoxide	1006007-01	1
Hedinger/Sanacorp	Dimethyl sulfoxide	1601048-01	2
Hedinger	Dimethyl sulfoxide	1609006-01	1
Hedinger	Dimethyl sulfoxide	P2018/117	1
Jenne	Dimethyl sulfoxide	1908024-01	1
Kehr	Dimethyl sulfoxide	1711020-01	1
Kögl	Dimethyl sulfoxide	158305171917	1
Kögl	Dimethyl sulfoxide	1700333	2
Kögl	Dimethyl sulfoxide	259008160217	1
Kögl	Dimethyl sulfoxide	259008164116	1
Kögl	Dimethyl sulfoxide	259008164916	1
L10	Dimethyl sulfoxide	1709010-01	1
L12	Dimethyl sulfoxide	1610015-01	1
L12	Dimethyl sulfoxide	1808012-01	1
L30	Dimethyl sulfoxide	1711020-01	2
Merck	Dimethyl sulfoxide	3498126	1
Merck	Dimethyl sulfoxide	K47112150544	1
Noweda Taucha	Dimethyl sulfoxide	22000438001	1
Noweda Taucha	Dimethyl sulfoxide	32022VT	1
noweda/anzag	Dimethyl sulfoxide	1809024-01	1
Noweda	Dimethyl sulfoxide	1111059-01	1
Noweda	Dimethyl sulfoxide	1111059-02	1
Noweda	Dimethyl sulfoxide	140403101	1
Noweda	Dimethyl sulfoxide	1404031-02	1
Noweda	Dimethyl sulfoxide	1609006-01	1
Noweda	Dimethyl sulfoxide	1610015-01	2
Noweda	Dimethyl sulfoxide	1610015-02	1
Noweda	Dimethyl sulfoxide	170001-01	1
Noweda	Dimethyl sulfoxide	170502501	1
Noweda	Dimethyl sulfoxide	1705025-01	1
Noweda	Dimethyl sulfoxide	1709010-01	2
Noweda	Dimethyl sulfoxide	1808012-01	1
Noweda	Dimethyl sulfoxide	18197616	2
Noweda	Dimethyl sulfoxide	1903021-02	2
Noweda	Dimethyl sulfoxide	1906016-01	2
Noweda	Dimethyl sulfoxide	1906016-02	2
Noweda	Dimethyl sulfoxide	192208003	1
Noweda	Dimethyl sulfoxide	20002329003	1
Noweda	Dimethyl sulfoxide	20003727003	3
Noweda	Dimethyl sulfoxide	2007016-01	1
Noweda	Dimethyl sulfoxide	21001308001	1
Noweda	Dimethyl sulfoxide	21001308004	2
Noweda	Dimethyl sulfoxide	7016-01	1
Noweda	Dimethyl sulfoxide	SYN1608022	1
Pala	Dimethyl sulfoxide	1903021-01	1
phoenix 06.03.14	Dimethyl sulfoxide	1306010-02	1
PHOENIX 06.03.2014	Dimethyl sulfoxide	1306010-01	1
phoenix 06.05.14	Dimethyl sulfoxide	1310008-01	1
Phoenix 10.06.14	Dimethyl sulfoxide	131008-01	1
Phoenix 19.05.2017 4,85EUR	Dimethyl sulfoxide	1610015-01	1
Phoenix WE08.04.17 -4,8...	Dimethyl sulfoxide	1610015-01	2
Phoenix/ EuRho	Dimethyl sulfoxide	2007016-01	1
Phoenix/EuRho	Dimethyl sulfoxide	1705020-01	1
Phoenix	Dimethyl sulfoxide	1601048-01	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Dimethyl sulfoxide	1606007-01	1
phoenix	Dimethyl sulfoxide	1610015-01	1
Phoenix	Dimethyl sulfoxide	1711020-01	1
Phoenix	Dimethyl sulfoxide	1805002-01	1
Phoenix	Dimethyl sulfoxide	18197612	1
Phoenix	Dimethyl sulfoxide	1903021-01	2
Phoenix	Dimethyl sulfoxide	192208003	2
Phoenix	Dimethyl sulfoxide	3206	1
Phoenix	Dimethyl sulfoxide	3415	1
Phönix 04.09.2019	Dimethyl sulfoxide	1903021-02	1
Phönix Gotha	Dimethyl sulfoxide	1111059-02	1
Phönix Gotha	Dimethyl sulfoxide	1404031-02	1
Phönix Gotha	Dimethyl sulfoxide	1505021-01	1
Phönix/apo ident	Dimethyl sulfoxide	1808012-01	1
Phönix/EuRho	Dimethyl sulfoxide	1207008-01	1
Phönix/Euro	Dimethyl sulfoxide	1610015-01	1
Phönix/Euro	Dimethyl sulfoxide	1610015-02	2
Phönix/Infectopharm	Dimethyl sulfoxide	1808012-01	1
Phönix	Dimethyl sulfoxide	1210059-01	1
Phönix	Dimethyl sulfoxide	1310008-01	1
Phönix	Dimethyl sulfoxide	1511028-01	1
phönix	Dimethyl sulfoxide	1606007-01	1
Phönix	Dimethyl sulfoxide	1606007-01	1
Phönix	Dimethyl sulfoxide	1610015-02	1
Phönix	Dimethyl sulfoxide	1705025-01	2
Phönix	Dimethyl sulfoxide	1709010-01	1
Phönix	Dimethyl sulfoxide	171102001	1
Phönix	Dimethyl sulfoxide	1711020-01	1
Phönix	Dimethyl sulfoxide	1806021-01	1
Phönix	Dimethyl sulfoxide	1906016-01	2
Phönix	Dimethyl sulfoxide	2007016-01	2
Phönix	Dimethyl sulfoxide	3164	1
Phönix	Dimethyl sulfoxide	SYN180709	1
Phönix	Dimethyl sulfoxide	SYN190325	1
PhytoComm	Dimethyl sulfoxide	171102001	1
Sanacorp W.E: 23.01.18 ...	Dimethyl sulfoxide	1710001-01	1
Sanacorp/ PZN08597061	Dimethyl sulfoxide	1306010-01-339413100	1
Sanacorp/Euro	Dimethyl sulfoxide	1903021-01	1
Sanacorp/Euro	Dimethyl sulfoxide	1906016-01	2
Sanacorp/Euro	Dimethyl sulfoxide	1906016-03	1
Sanacorp	Dimethyl sulfoxide	1207008-01	1
Sanacorp	Dimethyl sulfoxide	1306010-02	1
Sanacorp	Dimethyl sulfoxide	14H28-M01	1
Sanacorp	Dimethyl sulfoxide	1508018-01	1
Sanacorp	Dimethyl sulfoxide	160600701	1
Sanacorp	Dimethyl sulfoxide	161001502	1
Sanacorp	Dimethyl sulfoxide	171000101	2
Sanacorp	Dimethyl sulfoxide	1711020-01	3
Sanacorp	Dimethyl sulfoxide	1808012-01	1
Sanacorp	Dimethyl sulfoxide	1809024	1
Sanacorp	Dimethyl sulfoxide	1809024-01	1
Sanacorp	Dimethyl sulfoxide	1903021-01	1
Sanacorp	Dimethyl sulfoxide	1906016-01	2
Sanacorp	Dimethyl sulfoxide	1906016-02	2
Synopharm	Dimethyl sulfoxide	1705025-01	1
vitalundfitmit100/ Sana...	Dimethyl sulfoxide		1

- 294 912 spectra from 1324 *Apo-Ident* customers from a total of 52 711 batches from a further

343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Dimethyl sulfoxide* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Dimethyl sulfoxide* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	480	0	68 019
Type B	0	1070	0	110 243
Type C	0	2541	5	294 912

The substance/substance group *Dimethyl sulfoxide* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 98.7500 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.4393 %)
Type C	100.0000 % (> 99.6875 %)	99.8036 % (> 99.6858 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Dimethyl sulfoxide* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Acetone	80.98	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Dimethyl sulfoxide* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31498	31498	0.00	129.26
31732	31848	1.41	132.92
31734	31734	0.00	132.92
31803	31803	0.00	133.78
31813	31813	0.00	133.47
31848	31848	0.00	132.90
32280	32280	0.00	136.92
34221	34221	0.00	159.07
35285	31848	3.92	127.60

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Dimeticon 100 / 350 / 1000**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30660-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Dimeticon 100 / 350 / 1000; Dimeticone 100; Dimeticone 1000; Dimeticone 350; Dimeticonum 100; Dimeticonum 1000; Dimeticonum 350

Special notes

When selecting the *Dimeticon 100 / 350 / 1000* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Dimeticon 100 / 350 / 1000	12	8	117

Second-stage model

For differentiation of the substance/substance group *Dimeticon 100 / 350 / 1000* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Dimeticon 100 / 350 / 1000*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Dimeticone 100	12140101	30660	40	1403158
Caelo	Dimeticone 100	13049608	31333	40	20130301
Caelo	Dimeticone 100	172164	33918	40	20170809*
Caelo	Dimeticone 100	20003111009	36482	40	20201120
Caelo	Dimeticone 1000	161307	32169	60	20160427*
Caelo	Dimeticone 1000	15349907	32587	40	20151106
Fagron	Dimeticone 1000	14C20-B04-306781	32485	40	20140331
Caelo	Dimeticone 350	13236306	31334	40	AR-15-FG-009277-01
Euro OTC	Dimeticone 350	1702002	33234	40	20170302*
Euro OTC	Dimeticone 350	1909012	34747	40	20191129*
Fagron	Dimeticone 350	14C20-B05-292285	31659	60	20140331
Fagron	Dimeticone 350	14D30-B07-330851	33278	40	20140513

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 520 spectra of 12 reference samples from the substance/substance group *Dimeticon 100 / 350 / 1000*. These samples are listed above in the *calibration samples* section. The reference samples come from 12 different batches.
- 67 979 spectra from a total of 1401 batches from further 226 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples:

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 340 spectra of 8 reference samples from the substance/substance group *Dimeticon 100 / 350 / 1000*.
- Among them are spectra of independent samples from 8 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Dimeticone 100	15199409	32304	40
Caelo	Dimeticone 100	15404609	33628	40
Caelo	Dimeticone 1000	16348504	33654	40
Caelo	Dimeticone 1000	171981	33919	40
Caelo	Dimeticone 1000	191128002	35844	50
Caelo	Dimeticone 350	160754	32208	40
Caelo	Dimeticone 350	20004132002	35738	50
Fagron	Dimeticone 350	19L30-T04-080455	35265	40

- 110 973 spectra from a total of 2658 batches from further 348 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 361 spectra from 171 *Apo-Ident* customers from 120 batches from the substance/substance group *Dimeticon 100 / 350 / 1000*.
- Among them are spectra of independent samples from 114 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD, 07.11.13	Dimeticone 350	13049804	1
AHD	Dimeticone 350	17090204	1
Anzag 24.01.2013	Dimeticone 350	12186301	1
Beiersdorf Ag	Dimeticone 350	1207015-02	1
Bionorica	Dimeticone 350	18211105	1
cae	Dimeticone 350	13236306	1
Caelo	Dimeticone 350		1
Caelo	Dimeticone 350	10111314	1
Caelo	Dimeticone 350	11042104	1
Caelo	Dimeticone 100	11215905	1
Caelo	Dimeticone 100	12140101	1
Caelo	Dimeticone 350	12186301	1
Caelo	Dimeticone 350	12193302	1
Caelo	Dimeticone 350	12193303	3
Caelo	Dimeticone 350	12193307	2
Caelo	Dimeticone 350	12193308	1
Caelo	Dimeticone 350	12193313	1
Caelo	Dimeticone 350	12193315	1
Caelo	Dimeticone 100	12310801	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dimeticone 100	13049603	1
Caelo	Dimeticone 350	13049802	2
Caelo	Dimeticone 350	13049803	2
Caelo	Dimeticone 350	13049804	4
Caelo	Dimeticone 350	13049809	1
Caelo	Dimeticone 350	13049813	1
Caelo	Dimeticone 350	13236302	2
Caelo	Dimeticone 350	13236306	13
Caelo	Dimeticone 350	13236307	2
Caelo	Dimeticone 350	13236308	2
Caelo	Dimeticone 350	13236312	2
Caelo	Dimeticone 100	13362904	1
Caelo	Dimeticone 350	1407004-01	1
Caelo	Dimeticone 350	14074509	15
Caelo	Dimeticone 350	14074511	1
Caelo	Dimeticone 350	14074512	20
Caelo	Dimeticone 350	14074518	2
Caelo	Dimeticone 350	14336402	7
Caelo	Dimeticone 350	14336403	1
Caelo	Dimeticone 350	14704509	1
Caelo	Dimeticone 350	14C20-B05-292285	1
Caelo	Dimeticone 350	14D30-B07-300432	2
Caelo	Dimeticone 100	15059706	2
Caelo	Dimeticone 100	15199401	2
Caelo	Dimeticone 350	15239901	1
Caelo	Dimeticone 350	15349907	1
Caelo	Dimeticone 350	16075401	5
Caelo	Dimeticone 350	16075405	2
Caelo	Dimeticone 350	16075407	6
Caelo	Dimeticone 350	16075410	1
Caelo	Dimeticone 1000	16348503	2
Caelo	Dimeticone 350	16348504	2
Caelo	Dimeticone 350	17004502	2
Caelo	Dimeticone 350	17004506	1
Caelo	Dimeticone 350	17090201	16
Caelo	Dimeticone 350	17090203	23
Caelo	Dimeticone 350	17090204	3
Caelo	Dimeticone 100	17366802	1
Caelo	Dimeticone 100	17366809	1
Caelo	Dimeticone 350	173669	1
Caelo	Dimeticone 350	17366902	2
Caelo	Dimeticone 350	17366905	17
Caelo	Dimeticone 350	173669905	1
Caelo	Dimeticone 350	182111	1
Caelo	Dimeticone 350	18211102	1
Caelo	Dimeticone 350	18211105	6
Caelo	Dimeticone 350	18211106	1
Caelo	Dimeticone 350	18211109	5
Caelo	Dimeticone 350	18211110	3
Caelo	Dimeticone 350	18211113	4
Caelo	Dimeticone 350	18211116	2
Caelo	Dimeticone 350	18211117	16
Caelo	Dimeticone 350	18211118	1
Caelo	Dimeticone 100	19030902	2
Caelo	Dimeticone 350	190901201	1
Caelo	Dimeticone 350	191953001	6
Caelo	Dimeticone 350	191953007	1
Caelo	Dimeticone 350	191953008/29032101	1
Caelo	Dimeticone 350	19A09-B02-357845	1
Caelo	Dimeticone 350	20004132001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dimeticone 350	20004132002	1
Caelo	Dimeticone 350	20004133001	1
Caelo	Dimeticone 350	20004133004	1
Caelo	Dimeticone 350	2315274	1
Caelo	Dimeticone 350	301115	1
Caelo	Dimeticone 350	9371810	1
Caeolo/Ahd	Dimeticone 350	18211106	1
Caesar & Loretz GmbH /n...	Dimeticone 350	18211116	1
Caesar & Loretz GmbH/Fi...	Dimeticone 350	191953001	1
Caesar & Loretz GmbH/Je...	Dimeticone 350	18211117	2
Caesar & Loretz GmbH/No...	Dimeticone 350	191953008	1
Caesar & Loretz GmbH	Dimeticone 100	17366807	1
Caesar & Loretz GmbH	Dimeticone 1000	17367105	1
Caesar & Loretz GmbH	Dimeticone 1000	17367202	4
Caesar & Loretz GmbH	Dimeticone 350	18211105	2
Caesar & Loretz GmbH	Dimeticone 350	18211113	1
Caesar & Loretz GmbH	Dimeticone 350	18211116	3
Caesar & Loretz GmbH	Dimeticone 350	18211117	2
Caesar & Loretz GmbH	Dimeticone 350	18211118	1
Caesar & Loretz GmbH	Dimeticone 350	191953001	3
Caesar & Loretz GmbH	Dimeticone 350	191953009	1
Caesar & Loretz GmbH	Dimeticone 350	20004132001	1
Caesar & Loretz GmbH	Dimeticone 350	20004133001	1
Caesar & Loretz Hilden/...	Dimeticone 350	18211117	2
Caesar & Loretz Hilden/...	Dimeticone 350	18211105	2
Caesar & Loretz Hilden	Dimeticone 350	191953001	2
Chiesi / Noweda / 27.09...	Dimeticone 350	18211117	1
Euro OTC	Dimeticone 350	1207015-01	1
Euro OTC	Dimeticone 350	1207015-02	1
Euro OTC	Dimeticone 350	1407004-01	1
Euro OTC	Dimeticone 350	14C20-B05-292285	1
Euro OTC	Dimeticone 350	1702002-01	6
EuRo/Phönix	Dimeticone 350	1207015-01	1
Fagron	Dimeticone 350	14030-807	1
Fagron	Dimeticone 350	144D30-B07	1
Fagron	Dimeticone 350	14C20-B05	1
Fagron	Dimeticone 350	14C20-B05-292285	6
Fagron	Dimeticone 350	14D30-B07	1
Fagron	Dimeticone 350	14D30-B07-300432	2
Fagron	Dimeticone 350	14D30-B07-328248	1
Fagron	Dimeticone 350	14D30-B07-333434	2
Fagron	Dimeticone 350	14D30-B07-334577	1
Fagron	Dimeticone 350	14D30-B07-335878	2
Fagron	Dimeticone 350	14D30-B07-343668	3
Fagron	Dimeticone 350	14D30B07346200	1
Fagron	Dimeticone 350	16075401	1
Fagron	Dimeticone 350	17020002-01	1
Fagron	Dimeticone 350	19A09-B02	1
Fagron	Dimeticone 350	19A09B02-357845	1
Fagron	Dimeticone 350	19L30-T04-080455	2
Fagron	Dimeticone 350	19L30-T40-060455	1
Fagron	Dimeticone 350	3111Q-02251	1
Fagron	Dimeticone 350	7676459	1
Fagron	Dimeticone 350	9B10	1
Fagron	Dimeticone 350	Caelo/Noweda	1
Fargon	Dimeticone 350	14C20-B05_292282	1
Gatt-Koller	Dimeticone 350	190003	2
Gehe	Dimeticone 350	1407004-01	1
Gehe	Dimeticone 350	14D30-B07	2
Gehe	Dimeticone 350	14d30b07-330851	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
gehe	Dimeticone 350	14D30-B07-346200	1
Jenne	Dimeticone 350	14074509	1
Kögl	Dimeticone 350	124604160517	1
Kögl	Dimeticone 350	124604161816	1
Kögl	Dimeticone 350	1700492	1
Kögl	Dimeticone 350	1801089	2
Kögl	Dimeticone 350	knc0320j16	1
Kögl	Dimeticone 350	KNC0320J16	1
Lamotte/3	Dimeticone 350	1407511	1
Nachtestung-Verlängerung	Dimeticone 350	3/16	1
Noweda	Dimeticone 100	12316701	1
Noweda	Dimeticone 350	17090203	1
Noweda	Dimeticone 350	17366905	2
Noweda	Dimeticone 350	18211105	1
Ph.Eur.8.0	Dimeticone 350	14C20B05292285	1
Phoenix	Dimeticone 350	14D30-B07-335878	1
Sanacorp	Dimeticone 350		1

- 297 097 spectra from 1324 *Apo-Ident* customers from a total of 52 870 batches from a further 341 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Dimeticon 100 / 350 / 1000* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Dimeticon 100 / 350 / 1000* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	520	0	67 979
Type B	0	340	0	110 973
Type C	0	361	0	297 097

The substance/substance group *Dimeticon 100 / 350 / 1000* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 98.8462 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.2353 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 98.3380 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Dimeticon 100 / 350 / 1000* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Cineole	286.45	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Dimeticon 100 / 350 / 1000* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30660	30660	0.00	334.40
31333	33918	1.93	342.83
31334	31334	0.00	344.87
31659	33918	2.41	344.68
32169	32169	0.00	350.99
32485	33918	4.48	330.81
32587	33234	2.10	329.64
33234	33234	0.00	333.52
33278	33234	2.11	329.34
33918	33918	0.00	331.94
34747	34747	0.00	346.07
36482	34747	3.07	343.01

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Dwarf pine oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30204-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Dwarf pine oil; Pini pumilionis aetherolum

Special notes

When selecting the *Dwarf pine oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Dwarf pine oil	9	9	108

Second-stage model

For differentiation of the substance/substance group *Dwarf pine oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Dwarf pine oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Dwarf pine oil	11375614	31189	40	20120102
Caelo	Dwarf pine oil	16114705	33266	40	20160420
Caelo	Dwarf pine oil	16114706	33282	40	20160420
Caelo	Dwarf pine oil	172158	33679	40	20170807*
Caelo	Dwarf pine oil	20002366	35022	40	20200728*
Euro OTC	Dwarf pine oil	1210024-02	31529	60	20140806
Euro OTC	Dwarf pine oil	1511014	31818	60	20151214*
Fagron	Dwarf pine oil	12C29-N17	31184	40	1403167
Fagron	Dwarf pine oil	15A05-B06-322743	33276	40	20150126

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 400 spectra of 9 reference samples from the substance/substance group *Dwarf pine oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 9 different batches.
- 68 099 spectra from a total of 1404 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 370 spectra of 9 reference samples from the substance/substance group *Dwarf pine oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 9 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Dwarf pine oil	192716	34717	40
Caelo	Dwarf pine oil	21004227	36174	40
Euro OTC	Dwarf pine oil	1606003	32470	40
Euro OTC	Dwarf pine oil	1703031	33235	40
Euro OTC	Dwarf pine oil	1801001	33931	40
Euro OTC	Dwarf pine oil	1807002	34194	40
Euro OTC	Dwarf pine oil	1905020	34491	40
Euro OTC	Dwarf pine oil	2004017	35065	40
Euro OTC	Dwarf pine oil	2109024	35903	50

- 110 943 spectra from a total of 2657 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 376 spectra from 177 *Apo-Ident* customers from 113 batches from the substance/substance group *Dwarf pine oil*.

- Among them are spectra of independent samples from 107 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Dwarf pine oil	17364206	1
Alliance Healthcare	Dwarf pine oil	1215802	1
Alliance	Dwarf pine oil	11375601	1
Apo-Ident/Phoenix	Dwarf pine oil	17364201	1
Caelo	Dwarf pine oil	11375601	9
Caelo	Dwarf pine oil	11375608	1
Caelo	Dwarf pine oil	11375613	3
Caelo	Dwarf pine oil	11375614	3
Caelo	Dwarf pine oil	1137575601	1
Caelo	Dwarf pine oil	12239902	2
Caelo	Dwarf pine oil	12239903	2
Caelo	Dwarf pine oil	12239904	3
Caelo	Dwarf pine oil	13084309	1
Caelo	Dwarf pine oil	14083301	7
Caelo	Dwarf pine oil	14083302	3
Caelo	Dwarf pine oil	14083303	1
Caelo	Dwarf pine oil	14083310	1
Caelo	Dwarf pine oil	14083311	1
Caelo	Dwarf pine oil	14083315	1
Caelo	Dwarf pine oil	15239201	5
Caelo	Dwarf pine oil	15239202	2
Caelo	Dwarf pine oil	15239203	1
Caelo	Dwarf pine oil	153239202	1
Caelo	Dwarf pine oil	15375501	10

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Dwarf pine oil	15375502	6
Caelo	Dwarf pine oil	15375505	4
Caelo	Dwarf pine oil	1606003-01	1
Caelo	Dwarf pine oil	16114701	8
Caelo	Dwarf pine oil	16114702	5
Caelo	Dwarf pine oil	16114705	15
Caelo	Dwarf pine oil	16114706	8
Caelo	Dwarf pine oil	17012014	2
Caelo	Dwarf pine oil	1703031-01	1
Caelo	Dwarf pine oil	17215801	16
Caelo	Dwarf pine oil	17215802	12
Caelo	Dwarf pine oil	17215803	1
Caelo	Dwarf pine oil	17219801	1
Caelo	Dwarf pine oil	17364201	6
Caelo	Dwarf pine oil	17364202	1
Caelo	Dwarf pine oil	17364203	1
Caelo	Dwarf pine oil	17364204	1
Caelo	Dwarf pine oil	17364206	8
Caelo	Dwarf pine oil	1792977	2
Caelo	Dwarf pine oil	18309501	10
Caelo	Dwarf pine oil	18309502	13
Caelo	Dwarf pine oil	18309505	8
Caelo	Dwarf pine oil	18309506	1
Caelo	Dwarf pine oil	183096505	1
Caelo	Dwarf pine oil	192716001	7
Caelo	Dwarf pine oil	192716004	8
Caelo	Dwarf pine oil	20001551003	1
Caelo	Dwarf pine oil	20003807001	1
Caelo	Dwarf pine oil	20004551003	1
Caelo	Dwarf pine oil	21004227001	2
Caelo	Dwarf pine oil	21051403	1
Caelo	Dwarf pine oil	220110(20004551006)	1
Caelo	Dwarf pine oil	220628(21004227001)	1
Caelo	Dwarf pine oil	23021301	1
Caelo	Dwarf pine oil	24061712	1
Caelo	Dwarf pine oil	37(18309501)	1
Caelo	Dwarf pine oil	40(192716001)	1
Caelo	Dwarf pine oil	41(20003807001)	1
Caelo	Dwarf pine oil	5011903	1
Caelo	Dwarf pine oil	621H23	1
Caesar & Loretz GmbH/ P...	Dwarf pine oil	192716004	1
Caesar & Loretz GmbH/Al...	Dwarf pine oil	192716001	1
Caesar & Loretz GmbH/Fi...	Dwarf pine oil	18309505	1
Caesar & Loretz GmbH/Gehe	Dwarf pine oil	192716001	1
Caesar & Loretz GmbH/Je...	Dwarf pine oil	18309505	2
Caesar & Loretz GmbH/No...	Dwarf pine oil	1801001-01	1
Caesar & Loretz GmbH/No...	Dwarf pine oil	1905020-01	1
Caesar & Loretz GmbH/Ph...	Dwarf pine oil	20003807001	2
Caesar & Loretz GmbH/Sa...	Dwarf pine oil	18309501	1
Caesar & Loretz GmbH/Sa...	Dwarf pine oil	192716001	1
Caesar & Loretz GmbH/Sa...	Dwarf pine oil	192716004	1
Caesar & Loretz GmbH	Dwarf pine oil	17364202	2
Caesar & Loretz GmbH	Dwarf pine oil	17364206	2
Caesar & Loretz GmbH	Dwarf pine oil	18309501	8
Caesar & Loretz GmbH	Dwarf pine oil	18309502	4
Caesar & Loretz GmbH	Dwarf pine oil	18309505	6
Caesar & Loretz GmbH	Dwarf pine oil	18309506	2
Caesar & Loretz GmbH	Dwarf pine oil	18309507	1
Caesar & Loretz GmbH	Dwarf pine oil	192716001	5
Caesar & Loretz GmbH	Dwarf pine oil	192716004	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Dwarf pine oil	20003807001	3
Caesar & Loretz GmbH	Dwarf pine oil	20004551001	1
Caesar & Loretz GmbH	Dwarf pine oil	21004227001	1
Cealo/ Anzag	Dwarf pine oil	16114706	1
Cealo	Dwarf pine oil	18309502	1
Euro OTC	Dwarf pine oil	1210024-02	1
Euro OTC	Dwarf pine oil	1411021-01	5
Euro OTC	Dwarf pine oil	1511014-01	4
Euro OTC	Dwarf pine oil	1606003-01	1
Euro OTC	Dwarf pine oil	1703031-01	1
Euro OTC	Dwarf pine oil	1801001-01	1
Euro OTC	Dwarf pine oil	98764	1
Fagron	Dwarf pine oil	11G18-N10	2
Fagron	Dwarf pine oil	12C29-N17	1
Fagron	Dwarf pine oil	12G12N11	1
Fagron	Dwarf pine oil	12G12-N11	2
Fagron	Dwarf pine oil	12K06-N06	1
Fagron	Dwarf pine oil	12-K06-N06	1
Fagron	Dwarf pine oil	13C04-N02	7
Fagron	Dwarf pine oil	13CO4-NO2	1
Fagron	Dwarf pine oil	13E06-N04	5
Fagron	Dwarf pine oil	13H28-N04	3
Fagron	Dwarf pine oil	13H28-N04-0008/370	1
Fagron	Dwarf pine oil	14D14-B01	5
Fagron	Dwarf pine oil	15051509	1
Fagron	Dwarf pine oil	15A05B06	1
Fagron	Dwarf pine oil	15A05-B06	5
Fagron	Dwarf pine oil	15A05-B06-305064	1
Fagron	Dwarf pine oil	15A05-B06-305065	1
Fagron	Dwarf pine oil	1606003-01	1
Fagron	Dwarf pine oil	27111207	1
Fagron	Dwarf pine oil	736339	3
Fargo	Dwarf pine oil	13C04-N02	1
Fiebig	Dwarf pine oil	18309502	3
Franz GmbH/Phönix	Dwarf pine oil	12C29-N17	2
Frey & Lau GmbH/Phoenix	Dwarf pine oil	13C04-N020133/265	1
Fritz Schiele	Dwarf pine oil		1
Gatt-Koller	Dwarf pine oil	1701129	1
Hedinger/Phönix	Dwarf pine oil	1801001-01	1
Ichthyol-Gesellschaft	Dwarf pine oil	161028OP/15375501	1
Kögl	Dwarf pine oil	37202163916	1
Kögl	Dwarf pine oil	484101170517	1
Kögl	Dwarf pine oil	484101172017	1
Nachprüfung 19.9.17.	Dwarf pine oil	15A05-B06-322744	1
Noweda/EuRoh	Dwarf pine oil	160600301	1
Phoenix	Dwarf pine oil	17364206	1
Phoenix	Dwarf pine oil	18309501	1
phoenix	Dwarf pine oil	55418	1
Phönix 08.11.2019	Dwarf pine oil	18309502	1
Phönix	Dwarf pine oil	11/19-N12	1
Phönix	Dwarf pine oil	17215802	3
primavera	Dwarf pine oil	149B26	1
PVL	Dwarf pine oil	1360313	1
Taoasis GmbH	Dwarf pine oil	30985-110461	1
Taoasis	Dwarf pine oil	1148-148	1
Taoasis	Dwarf pine oil	25599-117839	1
Taoasis	Dwarf pine oil	25599-118829	1
Taoasis	Dwarf pine oil	2622-7697	1
Taoasis	Dwarf pine oil	2622-7698	1
Taoasis	Dwarf pine oil	30985-106654	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Taoasis	Dwarf pine oil	30985-110461	1
Taoasis	Dwarf pine oil	30985-111105	2
Taoasis	Dwarf pine oil	33347-112503	1
Taoasis	Dwarf pine oil	586/116867	1
Taoasis	Dwarf pine oil	586-116867	1
Taoasis	Dwarf pine oil	8783-125163	1
VDL; 7.50EUR; 28.9.2015	Dwarf pine oil	15239201	1

- 297 082 spectra from 1324 *Apo-Ident* customers from a total of 52 875 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Dwarf pine oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Dwarf pine oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	400	0	68 099
Type B	0	370	0	110 943
Type C	0	374	2	297 082

The substance/substance group *Dwarf pine oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.5000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.3784 %)
Type C	100.0000 % (> 99.6875 %)	99.4681 % (> 98.6702 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Dwarf pine oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Substance	Distance in main model	Distance in second-stage model
Pine silvestris oil	23.79	–
Bergamot oil	24.99	–
Juniper oil	25.54	–
Bitter orange oil	26.22	–
Angelica root oil	26.71	–
Spearmint oil	32.23	–
Grapefruit oil	32.28	–
Caraway oil	32.52	–
Citric oil	39.04	–
Eucalyptus oil	46.31	–
Cedar wood oil	52.22	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Dwarf pine oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31184	31184	0.00	31.14
31189	31184	4.51	32.29
31529	31818	1.90	26.19
31818	31818	0.00	26.61
33266	31818	5.42	29.00
33276	31184	7.39	31.29
33282	33679	5.82	30.64
33679	33679	0.00	32.02
35022	35022	0.00	31.65

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Ethanol 90%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30379-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Ethanol 90%; Ethanolum 90% rein / vergällt

Special notes

When selecting the *Ethanol 90%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Ethanol 90%	6	13	488

Second-stage model

For differentiation of the substance/substance group *Ethanol 90%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Ethanol 90%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
apomix	Ethanol 90%	25A040913	31056	40	1404654
apomix	Ethanol 90%	03A290419	34512	40	20190429
Caelo	Ethanol 90%	14052802	31392	40	20140225
Caelo	Ethanol 90%	163144	33102	40	20161209*
Caelo	Ethanol 90%	183064	34322	40	20181218*
Caelo	Ethanol 90%	191965	34737	40	20190815*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 240 spectra of 6 reference samples from the substance/substance group *Ethanol 90%*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 259 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 520 spectra of 13 reference samples from the substance/substance group *Ethanol 90%*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 13 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Ethanol 90%	161944	32324	40
Caelo	Ethanol 90%	163142	33103	40
Caelo	Ethanol 90%	163143	33104	40
Caelo	Ethanol 90%	171741	33714	40
Caelo	Ethanol 90%	171739	33715	40
Caelo	Ethanol 90%	190983	34628	40
Caelo	Ethanol 90%	191966	34735	40
Caelo	Ethanol 90%	191964	34736	40
Caelo	Ethanol 90%	21003395	36062	40
Caelo	Ethanol 90%	21003396	36063	40
Caelo	Ethanol 90%	22000919	36302	40
Caelo	Ethanol 90%	22001217	36303	40
Caelo	Ethanol 90%	22000917	36304	40

- 110 793 spectra from a total of 2653 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1462 spectra from 514 *Apo-Ident* customers from 504 batches from the substance/substance group *Ethanol 90%*.

- Among them are spectra of independent samples from 488 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
— (Retest)	Ethanol 90%	H180620A	1
	Ethanol 90%	Eth90-05	1
	Ethanol 90%	Eth90-4	1
	Ethanol 90%	Hergestellt070514	1
Adler	Ethanol 90%	4618Q-03042	1
Adler	Ethanol 90%	5018E-03042	1
AHD	Ethanol 90%	16314401	1
Alexandria Apotheke/ De...	Ethanol 90%		1
Alliance Healthcare	Ethanol 90%	18089801	1
Alliance Healthcare	Ethanol 90%	19043701	2
Alliance Healthcare	Ethanol 90%	19196601	1
Alliance Healthcare	Ethanol 90%	20A030717	1
Alte Apo Defektur	Ethanol 90%		1
Alte Apo Defektur	Ethanol 90%	1120M-02303	1
Alte Apo Defektur	Ethanol 90%	119M-02303	1
Alte Apo Defektur	Ethanol 90%	3318M-03019	1
Alte Apotheke	Ethanol 90%	4716E-03042	1
Anzag 06.10.12	Ethanol 90%	25A290812	1
Apo Ident/ Noweda	Ethanol 90%	18200201	1
ApoAmKlini	Ethanol 90%	918Q-02303	1
apomix	Ethanol 90%		1
apomix	Ethanol 90%	11A150517	1
apomix	Ethanol 90%	11A300420	1
apomix	Ethanol 90%	12A150513	1
apomix	Ethanol 90%	12A150517	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Ethanol 90%	13A170516	1
apomix	Ethanol 90%	14A120514	1
apomix	Ethanol 90%	15A090512	1
apomix	Ethanol 90%	16A210610	1
apomix	Ethanol 90%	173060003	1
apomix	Ethanol 90%	17A200616	1
apomix	Ethanol 90%	17A290517	1
apomix	Ethanol 90%	18A080615	1
apomix	Ethanol 90%	19A120617	1
apomix	Ethanol 90%	1A090320	1
apomix	Ethanol 90%	1a140119	1
apomix	Ethanol 90%	2040030717	1
apomix	Ethanol 90%	21A110416	1
apomix	Ethanol 90%	21A310713	1
apomix	Ethanol 90%	25A160817	1
apomix	Ethanol 90%	26A160817	1
apomix	Ethanol 90%	2A070518	2
apomix	Ethanol 90%	2A090320	6
apomix	Ethanol 90%	2A110319	3
apomix	Ethanol 90%	2A130114	1
apomix	Ethanol 90%	30A041017	1
apomix	Ethanol 90%	30A310815	1
apomix	Ethanol 90%	31a041017	1
apomix	Ethanol 90%	32A141211	1
apomix	Ethanol 90%	34A231017	1
apomix	Ethanol 90%	35A061117	1
apomix	Ethanol 90%	35A211112	1
apomix	Ethanol 90%	37A021214	1
apomix	Ethanol 90%	37A071116	1
apomix	Ethanol 90%	37A101212	1
apomix	Ethanol 90%	38A201117	2
apomix	Ethanol 90%	39A281116	2
apomix	Ethanol 90%	3A060618	1
apomix	Ethanol 90%	3a290419	1
apomix	Ethanol 90%	3A290419	3
apomix	Ethanol 90%	40A201117	1
apomix	Ethanol 90%	45A261015	1
apomix	Ethanol 90%	46A071215	1
apomix	Ethanol 90%	47A071215	1
apomix	Ethanol 90%	4A040619	1
apomix	Ethanol 90%	4A280618	2
apomix	Ethanol 90%	4A300320	1
apomix	Ethanol 90%	5A130214	1
apomix	Ethanol 90%	5A150216	1
apomix	Ethanol 90%	5A16018	1
apomix	Ethanol 90%	5A160718	2
apomix	Ethanol 90%	5A200217	1
apomix	Ethanol 90%	5A300320	2
apomix	Ethanol 90%	6A110919	1
apomix	Ethanol 90%	6A240420	1
apomix	Ethanol 90%	6a310718	1
apomix	Ethanol 90%	6A310718	3
apomix	Ethanol 90%	7A121119	3
apomix	Ethanol 90%	7A170215	1
apomix	Ethanol 90%	7A200317	1
apomix	Ethanol 90%	8A061118	3
apomix	Ethanol 90%	8A170215	1
apomix	Ethanol 90%	8A200317	2
apomix	Ethanol 90%	9A240417	1
apomix	Ethanol 90%	9A300420	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Apotärze/Zentrum	Ethanol 90%	10092013-D	1
Apotärze	Ethanol 90%	4414E-03042	1
Apotärze	Ethanol 90%	4513M-02303	1
Apotheke am Marktplatz	Ethanol 90%	4420-E02303	1
Apotheke	Ethanol 90%		1
Apotheke	Ethanol 90%	3116Q-03042	1
Audor Pharma	Ethanol 90%	1614E-03042	1
Behlen/Phönix	Ethanol 90%	1410T1300816	1
Beiersdorf AG	Ethanol 90%	18306202	1
Beiersdorf/Phoenix	Ethanol 90%	16314303	1
Berkel AHK	Ethanol 90%		1
bison	Ethanol 90%	616H2	1
Brinn- Holtz	Ethanol 90%	1258-06/17	1
Brinn-Holtz	Ethanol 90%	190615	2
Caelo	Ethanol 90%		3
Caelo	Ethanol 90%	10250602	1
Caelo	Ethanol 90%	10329402	1
Caelo	Ethanol 90%	11329304	1
Caelo	Ethanol 90%	11329402	1
Caelo	Ethanol 90%	12068202	1
Caelo	Ethanol 90%	12068301	1
Caelo	Ethanol 90%	12275301	1
Caelo	Ethanol 90%	12275402	1
Caelo	Ethanol 90%	12275501	2
Caelo	Ethanol 90%	12355401	3
Caelo	Ethanol 90%	12355501	2
Caelo	Ethanol 90%	12355601	4
Caelo	Ethanol 90%	1260117	1
Caelo	Ethanol 90%	12A250315	1
Caelo	Ethanol 90%	13019601	1
Caelo	Ethanol 90%	13019602	2
Caelo	Ethanol 90%	13019701	2
Caelo	Ethanol 90%	13019703	1
Caelo	Ethanol 90%	13085801	1
Caelo	Ethanol 90%	13085901	4
Caelo	Ethanol 90%	13086001	4
Caelo	Ethanol 90%	13086002	1
Caelo	Ethanol 90%	13160501	2
Caelo	Ethanol 90%	13160601	4
Caelo	Ethanol 90%	13160701	3
Caelo	Ethanol 90%	13160703	2
Caelo	Ethanol 90%	13290201	4
Caelo	Ethanol 90%	13290202	2
Caelo	Ethanol 90%	13290203	1
Caelo	Ethanol 90%	13290301	3
Caelo	Ethanol 90%	13290401	2
Caelo	Ethanol 90%	13290402	3
Caelo	Ethanol 90%	13399601	1
Caelo	Ethanol 90%	13399604	1
Caelo	Ethanol 90%	13399605	4
Caelo	Ethanol 90%	13399606	2
Caelo	Ethanol 90%	13399701	2
Caelo	Ethanol 90%	13399801	1
Caelo	Ethanol 90%	13399802	1
Caelo	Ethanol 90%	13399803	2
Caelo	Ethanol 90%	14027301	1
Caelo	Ethanol 90%	14027302	1
Caelo	Ethanol 90%	14027303	2
Caelo	Ethanol 90%	14027305	1
Caelo	Ethanol 90%	14027401	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Ethanol 90%	14027402	1
Caelo	Ethanol 90%	14027501	2
Caelo	Ethanol 90%	14027502	1
Caelo	Ethanol 90%	14052601	4
Caelo	Ethanol 90%	14052701	2
Caelo	Ethanol 90%	14052801	3
Caelo	Ethanol 90%	14052802	2
Caelo	Ethanol 90%	14060201	7
Caelo	Ethanol 90%	14060301	3
Caelo	Ethanol 90%	14060302	1
Caelo	Ethanol 90%	14122101	2
Caelo	Ethanol 90%	14122201	5
Caelo	Ethanol 90%	14122202	1
Caelo	Ethanol 90%	14122302	4
Caelo	Ethanol 90%	14122303	1
Caelo	Ethanol 90%	14122401	4
Caelo	Ethanol 90%	14208702	2
Caelo	Ethanol 90%	14208801	5
Caelo	Ethanol 90%	14208802	4
Caelo	Ethanol 90%	14208901	3
Caelo	Ethanol 90%	15010501	3
Caelo	Ethanol 90%	15010502	1
Caelo	Ethanol 90%	15010503	1
Caelo	Ethanol 90%	15010504	1
Caelo	Ethanol 90%	15010601	1
Caelo	Ethanol 90%	15010602	6
Caelo	Ethanol 90%	15014001	1
Caelo	Ethanol 90%	15014002	9
Caelo	Ethanol 90%	15073201	3
Caelo	Ethanol 90%	15073202	2
Caelo	Ethanol 90%	15073203	2
Caelo	Ethanol 90%	15080201	1
Caelo	Ethanol 90%	15080301	5
Caelo	Ethanol 90%	15150701	7
Caelo	Ethanol 90%	15150704	4
Caelo	Ethanol 90%	15150705	2
Caelo	Ethanol 90%	15219302	5
Caelo	Ethanol 90%	15219501	3
Caelo	Ethanol 90%	15328201	8
Caelo	Ethanol 90%	15328202	2
Caelo	Ethanol 90%	15328301	15
Caelo	Ethanol 90%	15328401	3
Caelo	Ethanol 90%	15442502	2
Caelo	Ethanol 90%	15442601	4
Caelo	Ethanol 90%	15442602	3
Caelo	Ethanol 90%	15442603	2
Caelo	Ethanol 90%	15442701	2
Caelo	Ethanol 90%	15442702	9
Caelo	Ethanol 90%	15442703	3
Caelo	Ethanol 90%	15442704	2
Caelo	Ethanol 90%	15442801	5
Caelo	Ethanol 90%	15442802	1
Caelo	Ethanol 90%	16092001	1
Caelo	Ethanol 90%	16106801	6
Caelo	Ethanol 90%	16106802	5
Caelo	Ethanol 90%	16106803	4
Caelo	Ethanol 90%	16106804	1
Caelo	Ethanol 90%	16106902	1
Caelo	Ethanol 90%	16107002	2
Caelo	Ethanol 90%	16107003	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Ethanol 90%	1616902	1
Caelo	Ethanol 90%	16194401	2
Caelo	Ethanol 90%	16194402	2
Caelo	Ethanol 90%	16194403	8
Caelo	Ethanol 90%	16194501	6
Caelo	Ethanol 90%	16194601	5
Caelo	Ethanol 90%	16194701	6
Caelo	Ethanol 90%	16194702	10
Caelo	Ethanol 90%	16314201	4
Caelo	Ethanol 90%	16314202	2
Caelo	Ethanol 90%	16314301	7
Caelo	Ethanol 90%	16314302	10
Caelo	Ethanol 90%	16314303	2
Caelo	Ethanol 90%	16314401	3
Caelo	Ethanol 90%	16314403	1
Caelo	Ethanol 90%	17047802	4
Caelo	Ethanol 90%	17047803	5
Caelo	Ethanol 90%	17047804	2
Caelo	Ethanol 90%	17047901	8
Caelo	Ethanol 90%	17047902	4
Caelo	Ethanol 90%	17048001	8
Caelo	Ethanol 90%	17048002	6
Caelo	Ethanol 90%	17048003	2
Caelo	Ethanol 90%	17048004	3
Caelo	Ethanol 90%	1714102	2
Caelo	Ethanol 90%	17173901	1
Caelo	Ethanol 90%	17173902	1
Caelo	Ethanol 90%	17173903	5
Caelo	Ethanol 90%	17174001	1
Caelo	Ethanol 90%	17174002	4
Caelo	Ethanol 90%	17174101	6
Caelo	Ethanol 90%	17174102	10
Caelo	Ethanol 90%	17174103	4
Caelo	Ethanol 90%	17206401	6
Caelo	Ethanol 90%	17306001	6
Caelo	Ethanol 90%	17306002	6
Caelo	Ethanol 90%	17306003	9
Caelo	Ethanol 90%	17306004	2
Caelo	Ethanol 90%	17306101	8
Caelo	Ethanol 90%	17306202	7
Caelo	Ethanol 90%	17306203	2
Caelo	Ethanol 90%	17306205	8
Caelo	Ethanol 90%	17306301	16
Caelo	Ethanol 90%	17306302	11
Caelo	Ethanol 90%	1736101	1
Caelo	Ethanol 90%	1806301	1
Caelo	Ethanol 90%	18089801	5
Caelo	Ethanol 90%	18089901	9
Caelo	Ethanol 90%	18089902	21
Caelo	Ethanol 90%	18090001	19
Caelo	Ethanol 90%	18200101	7
Caelo	Ethanol 90%	18200201	12
Caelo	Ethanol 90%	18200202	12
Caelo	Ethanol 90%	18200203	15
Caelo	Ethanol 90%	18306201	10
Caelo	Ethanol 90%	18306202	7
Caelo	Ethanol 90%	18306203	5
Caelo	Ethanol 90%	18306301	9
Caelo	Ethanol 90%	18306302	2
Caelo	Ethanol 90%	18306401	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Ethanol 90%	18306402	23
Caelo	Ethanol 90%	190433801	1
Caelo	Ethanol 90%	19043701	3
Caelo	Ethanol 90%	19043801	2
Caelo	Ethanol 90%	19043802	7
Caelo	Ethanol 90%	1908202	1
Caelo	Ethanol 90%	19096202	1
Caelo	Ethanol 90%	19098201	5
Caelo	Ethanol 90%	19098202	31
Caelo	Ethanol 90%	190982022	1
Caelo	Ethanol 90%	19098301	6
Caelo	Ethanol 90%	19098401	15
Caelo	Ethanol 90%	1915L-02303	1
Caelo	Ethanol 90%	1916402	1
Caelo	Ethanol 90%	1919640	1
Caelo	Ethanol 90%	19196401	26
Caelo	Ethanol 90%	19196402	4
Caelo	Ethanol 90%	1919641	1
Caelo	Ethanol 90%	19196501	11
Caelo	Ethanol 90%	19196601	3
Caelo	Ethanol 90%	200000564001	1
Caelo	Ethanol 90%	200002786002	1
Caelo	Ethanol 90%	200004033002	1
Caelo	Ethanol 90%	20000563001	14
Caelo	Ethanol 90%	20000563002	11
Caelo	Ethanol 90%	20000564001	22
Caelo	Ethanol 90%	20000564002	8
Caelo	Ethanol 90%	20000567001	4
Caelo	Ethanol 90%	20000569001	10
Caelo	Ethanol 90%	20000569002	1
Caelo	Ethanol 90%	20002784001	7
Caelo	Ethanol 90%	20002785001	5
Caelo	Ethanol 90%	20002786001	6
Caelo	Ethanol 90%	20002786002	12
Caelo	Ethanol 90%	20002787001	1
Caelo	Ethanol 90%	20002787002	1
Caelo	Ethanol 90%	20004033001	2
Caelo	Ethanol 90%	20004033002	3
Caelo	Ethanol 90%	2000403301	1
Caelo	Ethanol 90%	20004034001	5
Caelo	Ethanol 90%	20004034002	5
Caelo	Ethanol 90%	20004036001	4
Caelo	Ethanol 90%	20004036002	4
Caelo	Ethanol 90%	20004036003	7
Caelo	Ethanol 90%	21003395001	1
Caelo	Ethanol 90%	21003396002	2
Caelo	Ethanol 90%	21105102	1
Caelo	Ethanol 90%	23051805	1
Caelo	Ethanol 90%	24000863	1
Caelo	Ethanol 90%	2413Q-03042	1
Caelo	Ethanol 90%	2515A-03042	1
Caelo	Ethanol 90%	42A151216	1
Caelo	Ethanol 90%	4717Q-02303	1
Caelo	Ethanol 90%	5119E02303	1
Caelo	Ethanol 90%	5209A-02303	1
Caelo	Ethanol 90%	5214E-02303	1
Caelo	Ethanol 90%	5A130214	1
Caelo	Ethanol 90%	713E-02303	1
Caelo	Ethanol 90%	806890	1
Caelo	Ethanol 90%	80933148	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Ethanol 90%	812201517047901	1
Caelo	Ethanol 90%	814E-02303	1
Caelo	Ethanol 90%	814E-03042	1
Caelo	Ethanol 90%	915Q-02303	1
Caelo	Ethanol 90%	9A270416	1
Caelo	Ethanol 90%	AKD6	1
Caelo	Ethanol 90%	Defektur	1
Caesar & Loretz /Phönix	Ethanol 90%	20004033002	1
Caesar & Loretz GmbH / ...	Ethanol 90%	14208801	1
Caesar & Loretz GmbH / ...	Ethanol 90%	15014002	1
Caesar & Loretz GmbH / ...	Ethanol 90%	18200201	1
Caesar & Loretz GmbH / ...	Ethanol 90%	19196401	1
Caesar & Loretz GmbH, 4...	Ethanol 90%	12068301	1
Caesar & Loretz GmbH, 4...	Ethanol 90%	12275402	1
Caesar & Loretz GmbH, 4...	Ethanol 90%	13290202	1
Caesar & Loretz GmbH/ F...	Ethanol 90%	20004034001	1
Caesar & Loretz GmbH/ G...	Ethanol 90%	20000563001	1
Caesar & Loretz GmbH/ P...	Ethanol 90%	20002787002	1
Caesar & Loretz GmbH/Fi...	Ethanol 90%	20002786002	1
Caesar & Loretz GmbH/Gehe	Ethanol 90%	20000569001	1
Caesar & Loretz GmbH/Je...	Ethanol 90%	20002786002	1
Caesar & Loretz GmbH'/P...	Ethanol 90%	18306201	1
Caesar & Loretz GmbH/Ph...	Ethanol 90%	20000563001	1
Caesar & Loretz GmbH/Ph...	Ethanol 90%	20000569001	1
Caesar & Loretz GmbH/Ph...	Ethanol 90%	20002784001	1
Caesar & Loretz GmbH/Ph...	Ethanol 90%	21003395001	2
Caesar & Loretz GmbH/Sa...	Ethanol 90%	20002787002	1
Caesar & Loretz GmbH/Sa...	Ethanol 90%	AP210205-04	1
Caesar & Loretz GmbH'	Ethanol 90%	17306203	1
Caesar & Loretz GmbH	Ethanol 90%	18089901	1
Caesar & Loretz GmbH	Ethanol 90%	18090001	2
Caesar & Loretz GmbH	Ethanol 90%	18306202	1
Caesar & Loretz GmbH	Ethanol 90%	18306301	3
Caesar & Loretz GmbH	Ethanol 90%	18306401	6
Caesar & Loretz GmbH	Ethanol 90%	19043701	3
Caesar & Loretz GmbH	Ethanol 90%	19043801	2
Caesar & Loretz GmbH	Ethanol 90%	19043802	3
Caesar & Loretz GmbH	Ethanol 90%	19098201	5
Caesar & Loretz GmbH	Ethanol 90%	19098301	2
Caesar & Loretz GmbH	Ethanol 90%	19098401	9
Caesar & Loretz GmbH	Ethanol 90%	19196401	1
Caesar & Loretz GmbH	Ethanol 90%	19196402	1
Caesar & Loretz GmbH	Ethanol 90%	19196501	2
Caesar & Loretz GmbH	Ethanol 90%	19196601	3
Caesar & Loretz GmbH	Ethanol 90%	20000563001	2
Caesar & Loretz GmbH	Ethanol 90%	20000563003	1
Caesar & Loretz GmbH	Ethanol 90%	20000564001	4
Caesar & Loretz GmbH	Ethanol 90%	20000564002	1
Caesar & Loretz GmbH	Ethanol 90%	20000567001	3
CAESAR & LORETZ GMBH	Ethanol 90%	20000567001	1
Caesar & Loretz GmbH	Ethanol 90%	20000569001	6
Caesar & Loretz GmbH	Ethanol 90%	20000569002	4
Caesar & Loretz GmbH	Ethanol 90%	20002784001	6
Caesar & Loretz GmbH	Ethanol 90%	20002785001	2
Caesar & Loretz GmbH	Ethanol 90%	20002786001	5
Caesar & Loretz GmbH	Ethanol 90%	20002787001	2
Caesar & Loretz GmbH	Ethanol 90%	20002787002	3
Caesar & Loretz GmbH	Ethanol 90%	20004033001	2
Caesar & Loretz GmbH	Ethanol 90%	20004033002	1
Caesar & Loretz GmbH	Ethanol 90%	20004034001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Ethanol 90%	20004035001	3
Caesar & Loretz GmbH	Ethanol 90%	20004036001	3
Caesar & Loretz GmbH	Ethanol 90%	20004036002	1
Caesar & Loretz GmbH	Ethanol 90%	20004036003	1
Caesar & Loretz Hilden	Ethanol 90%	18200203	1
Caesar & Loretz Hilden	Ethanol 90%	19098202	1
Caesar & Loretz	Ethanol 90%	16194501	1
Caesar Loretz	Ethanol 90%	18306402	1
Caesar Loretz	Ethanol 90%	19196401	1
Cealo	Ethanol 90%	18306301	1
Ceasar & Loretz GmbH / ...	Ethanol 90%	18200203	1
DEFEKTUR Schwanen-Apoth...	Ethanol 90%	170620-1	1
Defektur/Wolf Apotheke	Ethanol 90%	4521M-02303	1
Defektur	Ethanol 90%	100420210315	1
Defektur	Ethanol 90%	101820211021	1
Defektur	Ethanol 90%	102320211122	1
Defektur	Ethanol 90%	102420211130	1
Defektur	Ethanol 90%	1715I-02303	1
Defektur	Ethanol 90%	1816A-03042	1
Defektur	Ethanol 90%	1LP20190710	1
Defektur	Ethanol 90%	2115A-03042	1
Defektur	Ethanol 90%	26112012D01	1
Defektur	Ethanol 90%	3015M-03042	1
Defektur	Ethanol 90%	3216N-03042	1
Defektur	Ethanol 90%	3517A-03042	1
Defektur	Ethanol 90%	4714E-03042	1
Defektur	Ethanol 90%	4916E-03042	1
Defektur	Ethanol 90%	5015I-03042	1
Defektur	Ethanol 90%	60616/50Hk	1
Defektur	Ethanol 90%	995201204	1
Defektur	Ethanol 90%	998210106	1
Defektur	Ethanol 90%	99920210113	1
Defektur	Ethanol 90%	H1917I03042	1
Delta	Ethanol 90%	17048003	1
Destillerie Kammer-Kirs...	Ethanol 90%		5
Doppeleiche Apotheke	Ethanol 90%	190411003	1
Doppeleiche Apotheke	Ethanol 90%	190415002	1
Doppeleiche Apotheke	Ethanol 90%	190729007	1
Duburg- Apotheke	Ethanol 90%	1121A-02303	1
Ebert & Jacobi	Ethanol 90%	17047902	1
Eigen Apotheke	Ethanol 90%	3417E-03042	1
Eigen Löwen Apothke	Ethanol 90%	1722I-02303	1
Eigen/Apotärze	Ethanol 90%	4818Q-02303	1
Eigen/Neue Apotheke	Ethanol 90%	4315I-02303	2
eigen	Ethanol 90%	20200326-JS	1
Eigen	Ethanol 90%	2220A-02303	1
eigen	Ethanol 90%	3119I-03042	1
EIGEN	Ethanol 90%	4220E-02303	1
Eigen	Ethanol 90%	4617E	1
Eigen	Ethanol 90%	817Q-03042	1
Eigen	Ethanol 90%	A041301	1
eigene Herstellung	Ethanol 90%	1721A-02303	2
eigene Herstellung	Ethanol 90%	2412E02303	1
Eigene Herstellung	Ethanol 90%	4317A-02303	1
eigene Herstellung	Ethanol 90%	SP9025	1
Eigene Herstellung	Ethanol 90%	SP9090	1
Eigene Herstellung	Ethanol 90%	SPV9024	1
eigene	Ethanol 90%	120Q-02303	1
eigene	Ethanol 90%	1419A-02303	1
eigene	Ethanol 90%	2720I-02303	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
eigene	Ethanol 90%	4219M-02303	1
eigene	Ethanol 90%	4319A-02303	1
eigene	Ethanol 90%	4918A-02303	1
eigene	Ethanol 90%	518U-02303	1
eigene	Ethanol 90%	5218Q-02302	1
Eigene	Ethanol 90%	821I02303	1
Eigenherstellung Hubert...	Ethanol 90%	2014072222DF	1
Eigenherstellung	Ethanol 90%	1119E-02303	1
Eigenherstellung	Ethanol 90%	115Q-07057	1
Eigenherstellung	Ethanol 90%	1312I-07057	1
Eigenherstellung	Ethanol 90%	14032019-0190	1
Eigenherstellung	Ethanol 90%	1515I-02303	1
Eigenherstellung	Ethanol 90%	1613A-07057	1
Eigenherstellung	Ethanol 90%	1620I-02303	1
Eigenherstellung	Ethanol 90%	1716Q-02303	1
Eigenherstellung	Ethanol 90%	1919Q-02303	1
Eigenherstellung	Ethanol 90%	217I-02303	1
Eigenherstellung	Ethanol 90%	2614I-02303	1
Eigenherstellung	Ethanol 90%	3416E-02303	1
Eigenherstellung	Ethanol 90%	3416E-07057	1
Eigenherstellung	Ethanol 90%	3917E-02303	1
Eigenherstellung	Ethanol 90%	4161112	1
Eigenherstellung	Ethanol 90%	416A-02303	1
Eigenherstellung	Ethanol 90%	4211215	1
Eigenherstellung	Ethanol 90%	4313Q-07057	1
Eigenherstellung	Ethanol 90%	4320M-02303	1
Eigenherstellung	Ethanol 90%	4414A-07057	1
Eigenherstellung	Ethanol 90%	4713Q-07057	1
Eigenherstellung	Ethanol 90%	4718Q-02303	1
Eigenherstellung	Ethanol 90%	4733	1
Eigenherstellung	Ethanol 90%	4819E-02303	1
Eigenherstellung	Ethanol 90%	514E-07057	1
Eigenherstellung	Ethanol 90%	821E-02303	1
Eigenprodukt	Ethanol 90%	H139-2841	1
Eigenproduktion	Ethanol 90%	1316M-02303	1
Eigenproduktion	Ethanol 90%	192521C	1
Engel/Engel	Ethanol 90%	4415A-07014	1
Euro OTC	Ethanol 90%	17174002	1
Fagron	Ethanol 90%	14027303	1
Fagron	Ethanol 90%	15442602	1
Fagron	Ethanol 90%	16314201	3
Fagron	Ethanol 90%	17306003	2
Fagron	Ethanol 90%	17306302	1
Fagron	Ethanol 90%	270614P1	1
Fiebig	Ethanol 90%	40A201117	1
Galderma / Noweda	Ethanol 90%	16107001	1
GEHE 29.04.2014	Ethanol 90%	14027502	2
Gehe amax	Ethanol 90%	19196501	1
Gehe	Ethanol 90%	12068201	1
Gehe	Ethanol 90%	14A180520	1
Gehe	Ethanol 90%	15328301	1
Gehe	Ethanol 90%	15442801	1
Gehe	Ethanol 90%	16106901	1
Gehe	Ethanol 90%	17048002	1
Gehe	Ethanol 90%	17174102	1
Gehe	Ethanol 90%	18089801	1
GEHE	Ethanol 90%	18090001	1
GEHE	Ethanol 90%	18200101	1
Gehe	Ethanol 90%	18306201	1
Gehe	Ethanol 90%	19098201	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Ethanol 90%	20000569001	1
GEHE	Ethanol 90%	28A110917	1
Gehe	Ethanol 90%	3118I-02303	1
Gehe	Ethanol 90%	3A060618	1
Geilenkirchen	Ethanol 90%	15010501	1
Germania Apo	Ethanol 90%	219060	1
Goethe Apotheke	Ethanol 90%	519M-03042	1
Gutenberg-Apotheke	Ethanol 90%	140324001	1
Gutenberg-Apotheke	Ethanol 90%	Defektur	1
Gütte/Phönix	Ethanol 90%	20112013-M	1
Hedinger	Ethanol 90%	716020Be	1
Henry Lamotte/Noweda	Ethanol 90%	10889901	1
Herstellung	Ethanol 90%	110416P1	1
Hirsch	Ethanol 90%	11233	1
Hirsch	Ethanol 90%	5013Q-02303	2
HirschApotheke	Ethanol 90%	1015I-02303	1
Hochhaus-Apotheke	Ethanol 90%	2616Q-03042	1
Hochhaus-Apotheke	Ethanol 90%	4514A-03042	1
Hoffmann / Bahnhof Apot...	Ethanol 90%	219E-03042	1
Jenne	Ethanol 90%	19098202	1
Kastner (eigen)	Ethanol 90%	1215I-02303	1
Kastner (eigen)	Ethanol 90%	3114E-03042	1
Kastner	Ethanol 90%	1314I-03042	1
Kessler	Ethanol 90%		1
Kreuzäcker Apotheke	Ethanol 90%	822A-02303	1
Kruppa	Ethanol 90%	818H3	1
KWST / KWST	Ethanol 90%	4118E-02303	1
Libellen Apotheke	Ethanol 90%	1515Q-02303	1
Löwen-Apotheke	Ethanol 90%	1218Q-03042	1
Markt Apotheke	Ethanol 90%	4619M-02303	1
Martinus-Apotheke Defek...	Ethanol 90%	E-210120-1D	1
Martinus-Apotheke	Ethanol 90%	A-160913-2D	1
Martinus-Apotheke	Ethanol 90%	E-021116-3D	1
Martinus-Apotheke	Ethanol 90%	E-030117-1Praxis	1
Martinus-Apotheke	Ethanol 90%	E-040414-1D	1
Martinus-Apotheke	Ethanol 90%	E-060418-1D	1
Martinus-Apotheke	Ethanol 90%	E-080114-1D	1
Martinus-Apotheke	Ethanol 90%	E-130216-1D	1
Martinus-Apotheke	Ethanol 90%	E-160416-1D	1
Martinus-Apotheke	Ethanol 90%	E-211014-1D	1
Martinus-Apotheke	Ethanol 90%	E-220716-1P	1
Martinus-Apothke	Ethanol 90%	E-170215-1D	1
Nachprüfung	Ethanol 90%	2418M-02303	1
Nachprüfung	Ethanol 90%	913Q-03042	1
Noweda/PKH Halle	Ethanol 90%	5A160718	1
Noweda	Ethanol 90%	10A170314	1
Noweda	Ethanol 90%	13290203	1
Noweda	Ethanol 90%	15219302	1
Noweda	Ethanol 90%	15328301	1
Noweda	Ethanol 90%	15442602	1
Noweda	Ethanol 90%	15442603	1
Noweda	Ethanol 90%	16314302	1
Noweda	Ethanol 90%	18306402	1
Phoenix 09.10.19 15,51EUR	Ethanol 90%	19098202	1
Phoenix	Ethanol 90%	13019703	1
Phoenix	Ethanol 90%	13399802	1
Phoenix	Ethanol 90%	17047802	1
Phoenix	Ethanol 90%	1925681	2
Phoenix	Ethanol 90%	20000564001	1
Phoenix	Ethanol 90%	3077	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix/Beiersdorf	Ethanol 90%	18089901	1
Phönix/Cealo	Ethanol 90%	18090001	1
phönix	Ethanol 90%		1
Phönix	Ethanol 90%	13399604	1
Phonix	Ethanol 90%	14052601	1
Phönix	Ethanol 90%	15442703	1
Phönix	Ethanol 90%	1694702	1
Phönix	Ethanol 90%	17306002	1
Phönix	Ethanol 90%	19098401	1
Phönix	Ethanol 90%	7A170918	1
PKH GmbH/ Alliance Heal...	Ethanol 90%	11A150517	2
PKH Halle/Noweda	Ethanol 90%	4A290114	2
PKH Halle/Sanacorp	Ethanol 90%	1A040418	1
PKH Halle	Ethanol 90%	1A040418	1
PKH Halle	Ethanol 90%	9A270416	1
PKH	Ethanol 90%	23A180615	1
pkh	Ethanol 90%	2a110319	1
Post-Apotheke 15.01.2014	Ethanol 90%	15012014	1
Post-Apotheke	Ethanol 90%	1414A-02303	1
Rappen-Apotheke	Ethanol 90%	190513-2	1
Rappen-Apotheke	Ethanol 90%	200430-2	1
Rappen-Apotheke	Ethanol 90%	200623-1	1
Römer-Apotheke	Ethanol 90%	150428003	1
Römer-Apotheke	Ethanol 90%	1914E-03042	1
Römer-Apotheke	Ethanol 90%	3614l-03042	1
Römer-Apotheke	Ethanol 90%	4213E-03042	1
Rondell Apotheke	Ethanol 90%	4615E-02303	1
Rondell Apotheke	Ethanol 90%	4615E-03042	1
Rondell Apotheke	Ethanol 90%	4615E-07209	1
Rondell Apotheke	Ethanol 90%	4814E-02303	1
Rondell-Apotheke	Ethanol 90%	3913Q-03042	1
Röntgen	Ethanol 90%	18306402	1
Rosenapotheke	Ethanol 90%	2417E-07094	1
Sanacorp 24.11.14 EK 63...	Ethanol 90%	14122101	1
sanacorp	Ethanol 90%	1030220120	1
Sanacorp	Ethanol 90%	15073202	1
Sanacorp	Ethanol 90%	1618E-02303	1
Sanacorp	Ethanol 90%	16194501	1
Sanacorp	Ethanol 90%	16194601	1
Sanacorp	Ethanol 90%	17306003	1
Sanacorp	Ethanol 90%	19098301	1
Selbst hergestellt	Ethanol 90%	180320	1
selbst hergestellt	Ethanol 90%	1LG20180616	1
selbst hergestellt	Ethanol 90%	1MH160427	1
Solling-Apo	Ethanol 90%	181213001	1
Stern	Ethanol 90%	150622004	1
Taoasis	Ethanol 90%	VE4038-127890	1
Taoasis	Ethanol 90%	VE40438-127890	1
Toeste Apotheke	Ethanol 90%	4819A-03042	1
Tsiripidou (Fortuna Apo...	Ethanol 90%		1
Tsiripidou	Ethanol 90%	180324	1
VbF B/Phönix	Ethanol 90%	5585102	1
VDL 09.05.14	Ethanol 90%	13399801	1
verdünnt von 96% von Ap...	Ethanol 90%	190208002	1
Wolf Apotheke/Defektur	Ethanol 90%	80615/50Kr	1
Wolf Apotheke	Ethanol 90%		3
Wolf-Apotheke / Defektur	Ethanol 90%	70428/50Hk	1
Wolf-Apotheke/Defektur	Ethanol 90%	1021M-02303	1
Wolf-Apotheke/Defektur	Ethanol 90%	1921I-02303	1
Wolf-Apotheke	Ethanol 90%	4020A-02303	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Wolf-Apotheke	Ethanol 90%	4820E-02303	1
Wolf-Apotheke-Defektur	Ethanol 90%	80711/50Hk	1
Zentrum-Apotheke	Ethanol 90%	514I-03042	1

- 295 996 spectra from 1324 *Apo-Ident* customers from a total of 52 495 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Ethanol 90%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Ethanol 90%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	240	0	68 259
Type B	0	520	0	110 713
Type C	0	1460	2	295 902

The substance/substance group *Ethanol 90%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.5000 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 98.8462 %)
Type C	100.0000 % (> 99.6866 %)	99.8632 % (> 99.6580 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Ethanol 90%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dexpanthenol	47.29	–
Dexpanthenol concentrate 50%	97.14	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Ethanol 90%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31056	31056	0.00	108.04
31392	34737	5.23	96.14
33102	33102	0.00	88.02
34322	34322	0.00	79.21
34512	31056	1.90	107.68
34737	34737	0.00	90.33

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Ethanol 96%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31488-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Ethanol 96%; Ethanolum 96%

Special notes

When selecting the *Ethanol 96%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Ethanol 96%	5	2	854

Second-stage model

For differentiation of the substance/substance group *Ethanol 96%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Ethanol 96%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Ethanol 96%	182621	34330	40	20181119*
Caelo	Ethanol 96%	190302	34457	40	20190206*
Caelo	Ethanol 96%	22000101001	36390	40	20220121
Laborchemie A...	Ethanol 96%	24001427	33852	40	20170801
Merck	Ethanol 96%	K45197671406	31488	60	1503676

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 220 spectra of 5 reference samples from the substance/substance group *Ethanol 96%*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 279 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Ethanol 96%*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Ethanol 96%	20003544	35251	40
Laborchemie Apolda	Ethanol 96%	25000305	34123	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 2250 spectra from 652 *Apo-Ident* customers from 873 batches from the substance/substance group *Ethanol 96%*.
- Among them are spectra of independent samples from 817 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
— (Retest)	Ethanol 96%	374/17	1
	Ethanol 96%		4
	Ethanol 96%	210923(010420/122/001)	1
.....	Ethanol 96%	22001720	1
/Phönix	Ethanol 96%	140604	1
A.H.D.	Ethanol 96%	20000305	1
Abtshof Magdeburg GmbH	Ethanol 96%	L08020	1
Agralko	Ethanol 96%	1062015	1
Agralko	Ethanol 96%	2015010901	1
AgrAlko	Ethanol 96%	410-1405	1
AgrAlko	Ethanol 96%	A2014000328	2
Agraralkohol AG München	Ethanol 96%		1
AHC/Laborchemie Apolda	Ethanol 96%	24000161	1
AHD 03.12.14 EK 85,21	Ethanol 96%	21002075	1
AHK Gmbh	Ethanol 96%	18/02/09	1
AHK Gmbh	Ethanol 96%	18/08/14	1
Alfred Quadflieg, Gelse...	Ethanol 96%	K16/08/03	1
alk	Ethanol 96%	100122017/07072017	1
Alkohlvertrieb Süd Dr. ...	Ethanol 96%	39552016/28012016	1
Alkohol Vertrieb Süd	Ethanol 96%	121952017/21082017	1
Alkoholvertieb/Süd	Ethanol 96%	136842018/0102018	1
Alkoholvertieb/Süd	Ethanol 96%	60492019/18032019	2
Alkoholvertrieb Bernd M...	Ethanol 96%	3074201709012017	1
Alkoholvertrieb Dr. Ber...	Ethanol 96%	15132014/02122013	1
Alkoholvertrieb Dr. Ber...	Ethanol 96%	41010414052992014	1
Alkoholvertrieb Süd Gmb...	Ethanol 96%	124412018/28082018	1
Alkoholvertrieb Süd Gmb...	Ethanol 96%	1313081029/26082013	1
Alkoholvertrieb Süd Gmb...	Ethanol 96%	30742017/09012017	1
Alkoholvertrieb Süd Gmb...	Ethanol 96%	6282017/24102016	2
Alkoholvertrieb Süd GmbH	Ethanol 96%	10412020/04112019	1
Alkoholvertrieb Süd GmbH	Ethanol 96%	122022020	1
Alkoholvertrieb Süd GmbH	Ethanol 96%	1313081029/26082013	1
Alkoholvertrieb Süd GmbH	Ethanol 96%	136842018/01102018	2
Alkoholvertrieb Süd GmbH	Ethanol 96%	138512017/28092017	1
Alkoholvertrieb Süd GmbH	Ethanol 96%	17962021	3
Alkoholvertrieb Süd GmbH	Ethanol 96%	2/0713	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Alkoholvertrieb Süd GmbH	Ethanol 96%	32132021	1
Alkoholvertrieb Süd GmbH	Ethanol 96%	keine	1
Alkoholvertrieb Süd/ Dr...	Ethanol 96%	136842018/01102018	1
Alkoholvertrieb Süd/ Dr...	Ethanol 96%	30742017/09012017	1
Alkoholvertrieb Süd/DPD	Ethanol 96%	41010315061020072015	1
Alkoholvertrieb Süd/Gehe	Ethanol 96%	1410T130111514122015	1
Alkoholvertrieb Süd/Gehe	Ethanol 96%	3297636/11062014	1
Alkoholvertrieb Süd	Ethanol 96%		2
Alkoholvertrieb Süd	Ethanol 96%	100122017/07072017	1
Alkoholvertrieb Süd	Ethanol 96%	10412020/04112019	2
Alkoholvertrieb Süd	Ethanol 96%	105272020	1
Alkoholvertrieb Süd	Ethanol 96%	116702016/05092016	1
Alkoholvertrieb Süd	Ethanol 96%	121952017/21082017	1
Alkoholvertrieb Süd	Ethanol 96%	124412018/28082018	1
Alkoholvertrieb Süd	Ethanol 96%	12532019/03122018	1
Alkoholvertrieb Süd	Ethanol 96%	1313081029/26082013	1
Alkoholvertrieb Süd	Ethanol 96%	138512107/28092017	1
Alkoholvertrieb Süd	Ethanol 96%	17962021	1
Alkoholvertrieb Süd	Ethanol 96%	18122017/25112016	1
Alkoholvertrieb Süd	Ethanol 96%	32132021	1
Alkoholvertrieb Süd	Ethanol 96%	3297636/11062014	1
Alkoholvertrieb Süd	Ethanol 96%	3742017/090112017	1
Alkoholvertrieb Süd	Ethanol 96%	38422020/10022020	4
Alkoholvertrieb Süd	Ethanol 96%	38422020/10022020--1	1
Alkoholvertrieb Süd	Ethanol 96%	38422020/10022020--2	1
Alkoholvertrieb Süd	Ethanol 96%	38422020/10022020--3	1
Alkoholvertrieb Süd	Ethanol 96%	38422020/10022020---4	1
Alkoholvertrieb Süd	Ethanol 96%	39552016/28012016	1
Alkoholvertrieb Süd	Ethanol 96%	410-104-1405/2909201	1
Alkoholvertrieb Süd	Ethanol 96%	410-1101502/16032015	1
Alkoholvertrieb süd	Ethanol 96%	53472018/0032018	1
Alkoholvertrieb Süd	Ethanol 96%	53472018/0032018	1
Alkoholvertrieb Süd	Ethanol 96%	5643/VALU38679/23	1
Alkoholvertrieb Süd	Ethanol 96%	60492019/18032019	1
Alkoholvertrieb Süd	Ethanol 96%	6282017/24102016	3
Alkoholvertrieb Süd	Ethanol 96%	6537201/27052017	1
Alkoholvertrieb süd	Ethanol 96%	71192018/23042018	1
Alkoholvertrieb Süd	Ethanol 96%	71192018/23042018	1
Alkoholvertrieb Süd	Ethanol 96%	80452016/01062016	3
Alkoholvertrieb Süd	Ethanol 96%	81692019/13052019	2
Alkoholvertrieb Süd	Ethanol 96%	8522018/02112017	1
Alkoholvertrieb Süd	Ethanol 96%	8850	1
Alkoholvertrieb Süd	Ethanol 96%	88502021	1
Alkoholvertrieb Süd	Ethanol 96%	9012016/05112015	1
Alkoholvertrieb Süd	Ethanol 96%	95772020	1
Alkoholvertrieb Süd	Ethanol 96%	97612016/18072016	1
Alkoholvertrieb Sued	Ethanol 96%	87872017/29052017	1
Alkoholvertrieb	Ethanol 96%	100122017/07072017	1
Alkoholvertrieb	Ethanol 96%	105272020	1
Alkoholvertrieb	Ethanol 96%	11A17/1	1
Alkoholvertrieb	Ethanol 96%	65942020/20042020	1
All. Healthc. / Laborph...	Ethanol 96%	22000616	1
All.Heal./laborchemie A...	Ethanol 96%	21001053	1
All.Heal./laborchemie A...	Ethanol 96%	21001561	1
Allchem /Allchem	Ethanol 96%	Sorte410/UN1170	2
Allchem/Phönix	Ethanol 96%	15266298	1
AllchemGmbH	Ethanol 96%	UN1170	2
alliance Health. 23.10.14	Ethanol 96%	21001379	1
Alliance/LaborChemie	Ethanol 96%	25001980	1
AllianceHealthcare	Ethanol 96%	22001291	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
AllianceHealthcare	Ethanol 96%	23000997	1
Allianz Healthcare	Ethanol 96%	26000285	1
AMANN CHEMIE GmbH	Ethanol 96%	n732001736	2
AMANN CHEMIE GmbH	Ethanol 96%	N732001736	2
AMANN CHEMIE GmbH	Ethanol 96%	UN1117	4
Amann Chemie GmbH; Brei...	Ethanol 96%	1410T1231219	1
Amman Chemie	Ethanol 96%	N732001736	1
Anzag / Labor chemie	Ethanol 96%	25000305	1
Anzag/ Laborchemie Apol...	Ethanol 96%	26002023	1
Anzag/Apolda	Ethanol 96%	24001494	1
Anzag/Hedinger	Ethanol 96%	23000749	1
Anzag/Heyl	Ethanol 96%	24002259	1
Anzag/Heyl	Ethanol 96%	25000305	1
Anzag/Heyl	Ethanol 96%	26000283	2
Anzag	Ethanol 96%	19000121	1
Anzag	Ethanol 96%	25000305	1
Anzag	Ethanol 96%	25001144	1
anzag	Ethanol 96%	25439	1
Apolda / Alliance Healt...	Ethanol 96%	24000927	1
Apolda / Anzag	Ethanol 96%	22001717	1
Apolda / Gehe	Ethanol 96%	20000065	1
Apolda / Gehe	Ethanol 96%	20000974	1
Apolda / Gehe	Ethanol 96%	23001357	1
Apolda / Noweda	Ethanol 96%	25001138	1
Apolda / Noweda	Ethanol 96%	25001955	1
Apolda / Noweda	Ethanol 96%	26000283	1
Apolda / Sanacorp	Ethanol 96%	20002191	1
Apolda / Sanacorp	Ethanol 96%	22001985	1
Apolda /Noweda	Ethanol 96%	24002163	1
Apolda GmbH Heyl	Ethanol 96%	27000743	1
Apolda GMBH/Anzag	Ethanol 96%	21001382	1
Apolda GmbH/Gehe	Ethanol 96%	22000616	1
Apolda GmbH/N/PZN:10137...	Ethanol 96%	20000975	1
Apolda gmbH/N	Ethanol 96%	21002064	1
Apolda gmbH/N	Ethanol 96%	22000999	1
Apolda GMBH/Noweda	Ethanol 96%	22000616	1
Apolda GMBH/Noweda	Ethanol 96%	24000863	1
Apolda GMBH/Noweda	Ethanol 96%	25001144	1
Apolda GmbH	Ethanol 96%	100050	1
Apolda GmbH	Ethanol 96%	19001936	1
Apolda GmbH	Ethanol 96%	20000305	1
apolda gmbh	Ethanol 96%	210001054	1
apolda gmbh	Ethanol 96%	21000152	2
apolda gmbh	Ethanol 96%	21001379	1
Apolda GmbH	Ethanol 96%	21001379	2
Apolda GmbH	Ethanol 96%	21001382	1
apolda gmbh	Ethanol 96%	21001736	1
Apolda GmbH	Ethanol 96%	22000086	1
apolda gmbh	Ethanol 96%	22000999	1
Apolda GmbH	Ethanol 96%	22001717	1
Apolda GmbH	Ethanol 96%	22001948	1
Apolda GmbH	Ethanol 96%	23000188	1
Apolda GmbH	Ethanol 96%	24000161	1
Apolda Gmbh	Ethanol 96%	24001427	1
Apolda GmbH	Ethanol 96%	24002163	1
Apolda GmbH	Ethanol 96%	26000285	1
Apolda GmbH	Ethanol 96%	27000531	1
Apolda GmbH	Ethanol 96%	27000743	1
Apolda Laborchemie/Sana	Ethanol 96%	27001625	1
Apolda Laborchemie	Ethanol 96%	19002599	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Apolda Laborchemie	Ethanol 96%	20001887	1
Apolda, direkt best.	Ethanol 96%	21001560	1
Apolda, Gehe	Ethanol 96%	20001887	1
Apolda, Gehe	Ethanol 96%	20002192	1
Apolda, Noweda	Ethanol 96%	20001212	1
Apolda, Phönix	Ethanol 96%	20000307	1
Apolda/ Alliance Health...	Ethanol 96%	23000175	1
Apolda/ Alliance	Ethanol 96%	25000305	1
Apolda/ Gehe	Ethanol 96%	24001427	1
Apolda/ Sanacorp	Ethanol 96%	21000154	2
Apolda/ Sanacorp	Ethanol 96%	21001380	1
Apolda/ Sanacorp	Ethanol 96%	21001560	1
Apolda/ Sanacorp	Ethanol 96%	21002239	1
Apolda/ Sanacorp	Ethanol 96%	22000090	1
Apolda/Ebert	Ethanol 96%	24000920	1
Apolda/Gehe	Ethanol 96%	20002193	1
Apolda/Gehe	Ethanol 96%	24000186	1
Apolda/Gehe	Ethanol 96%	24001427	1
Apolda/Gehe	Ethanol 96%	24002163	1
Apolda/Gehe	Ethanol 96%	25001980	1
Apolda/GEHE	Ethanol 96%	26002023	2
Apolda/Heyl/Noweda	Ethanol 96%	22001985	3
Apolda/Heyl/Noweda	Ethanol 96%	23000749	1
Apolda/Heyl/Noweda	Ethanol 96%	23001368	1
Apolda/Heyl/Noweda	Ethanol 96%	24000187	1
Apolda/Noweda	Ethanol 96%	23001368	1
Apolda/Noweda	Ethanol 96%	24000163	1
Apolda/Noweda	Ethanol 96%	24001427	1
Apolda/Noweda	Ethanol 96%	25001955	1
Apolda/Phoenix	Ethanol 96%	21000197	1
Apolda/Phoenix	Ethanol 96%	22000616	1
Apolda/Phoenix	Ethanol 96%	25001980	3
Apolda/Phönix	Ethanol 96%	21002269	1
Apolda/Phönix	Ethanol 96%	22000096	1
Apolda/Phönix	Ethanol 96%	22000616	1
Apolda/Phönix	Ethanol 96%	22001291	1
Apolda/Phönix	Ethanol 96%	3613M-02304	1
Apolda/Sana	Ethanol 96%	24001427	1
Apolda/Sanacorp	Ethanol 96%	22000090	1
Apolda/Sanacorp	Ethanol 96%	22000392	1
Apolda/Sanacorp	Ethanol 96%	24002163	1
Apolda/Sanacorp	Ethanol 96%	250001980	2
Apolda/Sanacorp	Ethanol 96%	25000305	1
Apolda/Sanacorp	Ethanol 96%	25001144	4
Apolda/Sanacorp	Ethanol 96%	26000285	1
Apolda/Sanacorp	Ethanol 96%	26001268	2
Apolda/Spangro	Ethanol 96%	22002231	1
Apolda/Spangro	Ethanol 96%	24001494	1
Apolda/VDL	Ethanol 96%	20001830	1
Apolda	Ethanol 96%	21002268	1
Apolda	Ethanol 96%	22001718	1
Apolda	Ethanol 96%	22002230	1
Apolda	Ethanol 96%	23001368	1
Apolda	Ethanol 96%	24000161	1
Apolda	Ethanol 96%	25000361	1
Apolda	Ethanol 96%	25001139	1
Apolda	Ethanol 96%	25001954	1
Apolda	Ethanol 96%	26000283	2
Apolda	Ethanol 96%	26001211	1
Apolda	Ethanol 96%	26001277	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Apolda	Ethanol 96%	27001078	1
Applichem/Diagonal	Ethanol 96%	70214PJK05	1
Applichem	Ethanol 96%	220113PML01	1
Aromatique/EAL	Ethanol 96%	53842020	1
Behkel	Ethanol 96%	21/06/10	1
Behlen/direkt	Ethanol 96%	1410T1090119	1
Behlen/direkt	Ethanol 96%	1410T1170320	1
Behlen/Phönix	Ethanol 96%	1410T1300816	1
Behlen	Ethanol 96%	1410T1140120	1
Behlen	Ethanol 96%	Behlen	1
Bergchemie/Bergchemie	Ethanol 96%	17-05-19	2
Bergchemie	Ethanol 96%		1
Bergchemie	Ethanol 96%	13/03/06	1
Bergchemie	Ethanol 96%	13/11/27	1
bergchemie	Ethanol 96%	14-06-04	1
Bergchemie	Ethanol 96%	14-06-04	1
Bergchemie	Ethanol 96%	14-08-12	2
Bergchemie	Ethanol 96%	14-10-16	1
bergchemie	Ethanol 96%	14-12-10	1
Bergchemie	Ethanol 96%	15/06/10	1
Bergchemie	Ethanol 96%	15-05-07	1
Bergchemie	Ethanol 96%	15-10-09	1
Bergchemie	Ethanol 96%	15-5-07	1
Bergchemie	Ethanol 96%	16/01/06	2
Bergchemie	Ethanol 96%	16/02/02	1
Bergchemie	Ethanol 96%	16/08/03	1
Bergchemie	Ethanol 96%	5/0810	1
Bergchemie	Ethanol 96%	9-03-07	1
Bergchemie	Ethanol 96%	aaaaaa	1
bergchemie	Ethanol 96%	UN1170	1
Berkel AHK	Ethanol 96%	220217/824	1
Berkel AHG	Ethanol 96%	80318/931	1
Berkel AHK / Werner Hof...	Ethanol 96%	16/08/04	2
Berkel AHK /TEREOS	Ethanol 96%	190515/669	1
Berkel AHK Alkoholhande...	Ethanol 96%	110717/861internePN5216	1
Berkel AHK Alkoholhande...	Ethanol 96%	40517/843	1
Berkel AHK Alkoholhande...	Ethanol 96%	VE37799	1
Berkel AHK Alkoholhande...	Ethanol 96%	VE39460	1
Berkel AHK Alkoholhande...	Ethanol 96%	VE40783	1
Berkel AHK Alkoholhande...	Ethanol 96%	VE41728	1
Berkel AHK Alkoholhande...	Ethanol 96%	VE42914	1
Berkel AHK Alkoholhande...	Ethanol 96%	VE44224	1
Berkel AHK Alkoholhande...	Ethanol 96%	VE45584	1
Berkel AHK Alkoholhandel	Ethanol 96%	VE32323	1
Berkel AHK Alkoholhandel	Ethanol 96%	VE32507	1
Berkel AHK Berlin	Ethanol 96%	80318/931	1
Berkel AHK/ MTG	Ethanol 96%	1410T31080819	1
Berkel AHK/ Tereos, Ori...	Ethanol 96%	16/02/02	1
Berkel AHK/Berkel AHK	Ethanol 96%	VE52339	1
Berkel AHK/MTG Sped.	Ethanol 96%	1410T31040319	1
Berkel AHK/MTG Sped.	Ethanol 96%	1410T31080819	1
Berkel AHK/MTG Sped.	Ethanol 96%	1410T31170619	1
Berkel AHK	Ethanol 96%	101017/884	1
Berkel AHK	Ethanol 96%	110220/123	1
BERKEL AHK	Ethanol 96%	110220/123	1
Berkel AHK	Ethanol 96%	110221/259	1
Berkel AHK	Ethanol 96%	111016/786	2
Berkel AHK	Ethanol 96%	1137111/08	1
Berkel AHK	Ethanol 96%	120516/746	1
Berkel AHK	Ethanol 96%	13/09/05	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Berkel AHK	Ethanol 96%	13/11/08	1
Berkel AHK	Ethanol 96%	14/01/30	1
Berkel AHK	Ethanol 96%	14/09/17	1
Berkel AHK	Ethanol 96%	14/11/13	1
Berkel AHK	Ethanol 96%	1410T31010420	2
Berkel Ahk	Ethanol 96%	1410T31040320	1
Berkel AHK	Ethanol 96%	1410T31040613	1
Berkel AHK	Ethanol 96%	1410T31041219	1
Berkel AHK	Ethanol 96%	1410T31050914	1
Berkel AHK	Ethanol 96%	1410T31080113	1
Berkel AHK	Ethanol 96%	1410T311060513	1
Berkel AHK	Ethanol 96%	1410T31120520	1
Berkel AHK	Ethanol 96%	1410T31121017	1
Berkel AHK	Ethanol 96%	1410T31141212	1
Berkel AHK	Ethanol 96%	1410T31151217	1
Berkel AHK	Ethanol 96%	1410T31170320	2
Berkel AHK	Ethanol 96%	1410T31181213	1
Berkel AHK	Ethanol 96%	1410T31191113	1
Berkel AHK	Ethanol 96%	1410T31191118	1
Berkel Ahk	Ethanol 96%	1410T31200420	1
Berkel AHK	Ethanol 96%	1410T31230418	1
Berkel AHK	Ethanol 96%	1410T31271014	1
Berkel AHK	Ethanol 96%	1410T31280116	1
Berkel AHK	Ethanol 96%	15/07/23	2
Berkel AHK	Ethanol 96%	151125	1
Berkel AHK	Ethanol 96%	17/01/11	1
Berkel AHK	Ethanol 96%	17/09/07-1	1
BERKEL AHK	Ethanol 96%	170712/334	4
Berkel AHK	Ethanol 96%	171208	1
Berkel AHK	Ethanol 96%	180327	1
Berkel AHK	Ethanol 96%	190618/958	1
Berkel AHK	Ethanol 96%	20/01/09	1
Berkel AHK	Ethanol 96%	20/02/26	2
Berkel AHK	Ethanol 96%	20/03/27	1
Berkel AHK	Ethanol 96%	20/07/08	1
Berkel AHK	Ethanol 96%	200214/567	1
Berkel AHK	Ethanol 96%	21/02/26	1
Berkel AHK	Ethanol 96%	210714/598	1
Berkel AHK	Ethanol 96%	231018/995	1
Berkel AHK	Ethanol 96%	260411/145	2
Berkel AHK	Ethanol 96%	2906211085	1
Berkel AHK	Ethanol 96%	30320/130	2
BERKEL AHK	Ethanol 96%	30320/130	1
Berkel AHK	Ethanol 96%	30420/143	2
Berkel AHK	Ethanol 96%	30620/175	1
Berkel AHK	Ethanol 96%	310317/834	1
Berkel AHK	Ethanol 96%	310317/835	1
Berkel AHK	Ethanol 96%	3613Q2304	1
Berkel AHK	Ethanol 96%	40517/843	1
Berkel AHK	Ethanol 96%	50319/035	1
BERKEL AHK	Ethanol 96%	50319/035	1
Berkel AHK	Ethanol 96%	50820/190	1
Berkel AHK	Ethanol 96%	60919/1La	1
Berkel AHK	Ethanol 96%	61218/008	1
Berkel AHK	Ethanol 96%	70120/115	2
Berkel AHK	Ethanol 96%	80318/931	1
Berkel AHK	Ethanol 96%	80921/310	1
BERKEL AHK	Ethanol 96%	90321/265	1
Berkel AHK	Ethanol 96%	91214/632	1
Berkel AHK	Ethanol 96%	VE28587	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Berkel AHK	Ethanol 96%	VE37799	1
Berkel AHK	Ethanol 96%	VE46375	1
Berkel AHK	Ethanol 96%	VE49686	1
Berkel AHK	Ethanol 96%	VE50571	1
Berkel AKK	Ethanol 96%	190220	1
Berkel/AHD	Ethanol 96%	1410T31260321	1
Berkel/Alliance Healthc...	Ethanol 96%	231018/994	1
Berkel/Anzag	Ethanol 96%	101017/884	1
Berkel/Anzag	Ethanol 96%	241117/897	1
Berkel/Ebert	Ethanol 96%	1410T31271115	1
Berkel	Ethanol 96%		1
Berkel	Ethanol 96%	140T31030517	1
Berkel	Ethanol 96%	1410T31010420	1
Berkel	Ethanol 96%	1410T31031120	1
Berkel	Ethanol 96%	1410T31040320	1
Berkel	Ethanol 96%	1410T31051115	1
Berkel	Ethanol 96%	1410T31060618	1
Berkel	Ethanol 96%	1410T31100621	1
Berkel	Ethanol 96%	1410T31110220	2
Berkel	Ethanol 96%	1410T31120520	1
Berkel	Ethanol 96%	1410T31140120	1
Berkel	Ethanol 96%	1410T31141015	1
Berkel	Ethanol 96%	1410T31151220	1
Berkel	Ethanol 96%	1410T31170320	1
Berkel	Ethanol 96%	1410T31180319	1
Berkel	Ethanol 96%	1410T31191113	1
Berkel	Ethanol 96%	1410T31200420	1
Berkel	Ethanol 96%	1410T31260814	1
Berkel	Ethanol 96%	1410T31290621	1
Berkel	Ethanol 96%	1410T31310715	1
BERKEL	Ethanol 96%	1410U	1
Berkel	Ethanol 96%	17/04/05	1
Berkel	Ethanol 96%	220217/824	1
Berkel	Ethanol 96%	30320/130	1
BerkelAHK	Ethanol 96%	1410T31060717	1
BerkelAHK	Ethanol 96%	1410T31271115	1
BerkelAHK	Ethanol 96%	16/11/23	1
Berkel-AHK	Ethanol 96%	30320/130	1
BfB	Ethanol 96%	1/2/3/4	1
BfB	Ethanol 96%	10065927	1
BFB	Ethanol 96%	keinevorhanden	1
BfB-Betrieb München	Ethanol 96%		1
Bimmer	Ethanol 96%		2
BIMMERLE	Ethanol 96%	315/2020	1
Bioenergi Icking GmbH	Ethanol 96%	N781062528	1
Bioenergi Icking GmbH	Ethanol 96%	N781601635	12
Bioenergi Icking GmbH	Ethanol 96%	N781602528	3
Bioenergi Icking GmbH	Ethanol 96%	N781704668	4
Bioenergie Icking GmbH	Ethanol 96%	Bioenergie	1
Bioenergie Icking GmbH	Ethanol 96%	N781601635	1
Bioenergie Icking GmbH	Ethanol 96%	N781602528	1
Bioenergie Icking GmbH	Ethanol 96%	N781807555	2
Bioenergie Icking GmbH	Ethanol 96%	N781809027	1
Bioenergie Icking GmbH	Ethanol 96%	N781911663	1
Bioenergie Icking GmbH	Ethanol 96%	N782012869	1
Bioenergie Icking	Ethanol 96%	201102170016	1
Bioenergie Icking	Ethanol 96%	N782012869	1
Bioenergie Icking	Ethanol 96%	N782014159	1
bionergie icking	Ethanol 96%	781807555	1
Bionorica	Ethanol 96%	22001720	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Birkenhof Brennerei Nis...	Ethanol 96%	L200401	1
BMV Branntwein	Ethanol 96%		5
BMV Branntwein	Ethanol 96%	Ch19	1
Bombastus	Ethanol 96%	27001625	1
Brand GmbH Alkoholvertr...	Ethanol 96%	24052013/60	1
Branntweinmonopol	Ethanol 96%	613EtOH96	1
Brantweinmonopolstelle	Ethanol 96%	110717/861	1
Brantweinmonopolstelle	Ethanol 96%	150518/949	1
Brantweinmonopolstelle	Ethanol 96%	261018/996	1
Brantweinmonopolstelle	Ethanol 96%	40517/843	1
Brantweinmonopolstelle	Ethanol 96%	50319/035	1
Brauerei	Ethanol 96%	200525A	1
Brennerei Henrich	Ethanol 96%	Re20200120	1
Brennerei Hoffer Alter	Ethanol 96%	Pandemie	1
Brennerei Jürgen Friz	Ethanol 96%	M781911905	1
Brennerei Kessler Bad P...	Ethanol 96%	L1120	1
Brennerei Kessler	Ethanol 96%	8020-3	1
Brennerei Kessler	Ethanol 96%	L-0120-L1020	1
Brennerei Kessler	Ethanol 96%	L4518	1
Brennerei Marienhof	Ethanol 96%		4
Brennerei	Ethanol 96%	201408-1	1
Brückemann	Ethanol 96%	V032006620	1
Brückweg Apotheke	Ethanol 96%	1410T31241018	1
Brüggeman Alkohol	Ethanol 96%	7815040634	1
Brüggemann / Kammer Kir...	Ethanol 96%	N141901790	2
Brüggemann Alcohol Heil...	Ethanol 96%	V032006616	1
Brüggemann Alcohol Heil...	Ethanol 96%	V032006620	1
Brüggemann Alcohol Wite...	Ethanol 96%	N841700370	6
Brüggemann Alcohol/ Bio...	Ethanol 96%	N781602528	1
Brüggemann Alcohol/Heil...	Ethanol 96%	7816123659	3
Brüggemann Alcohol	Ethanol 96%	7814070382	1
Brüggemann Alcohol	Ethanol 96%	7814120470	1
Brüggemann Alcohol	Ethanol 96%	7815060735	3
Brüggemann Alcohol	Ethanol 96%	N781601503	1
Brüggemann Alkohol Heil...	Ethanol 96%	N8170469278170	1
Brüggemann Alkohol Witt...	Ethanol 96%	7818118981	1
Brüggemann Alkohol Witt...	Ethanol 96%	7819121988	1
Brüggemann Alkohol Witt...	Ethanol 96%	7820022415	2
Brüggemann Alkohol Witt...	Ethanol 96%	7820033297	1
Brüggemann Distilling C...	Ethanol 96%	N782013731	1
Brüggemann Wittenberg	Ethanol 96%	7815010512	5
Brüggemann Wittenberg	Ethanol 96%	7815030598	1
Brüggemann Wittenberg	Ethanol 96%	N781809140	1
Brüggemann/ Delicom	Ethanol 96%	N781601155	1
Brüggemann/DeliCom DPD ...	Ethanol 96%		1
Brüggemann/DPD	Ethanol 96%	N782014934	1
Brüggemann/Heilbronn 23...	Ethanol 96%	L-20101	1
Brüggemann/Kammerkirsch...	Ethanol 96%	N142001932	1
Brüggemann	Ethanol 96%	1514020991	1
Brüggemann	Ethanol 96%	1514041040	1
Brüggemann	Ethanol 96%	201101270401	1
Brüggemann	Ethanol 96%	312104624	3
Brüggemann	Ethanol 96%	7813050119	1
Brüggemann	Ethanol 96%	7813110228	1
Brüggemann	Ethanol 96%	7814060362	1
Brüggemann	Ethanol 96%	7814110456	1
Brüggemann	Ethanol 96%	7815030598	1
Brüggemann	Ethanol 96%	7815040634	1
Brüggemann	Ethanol 96%	7815080789	3
Brüggemann	Ethanol 96%	7815110957	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Brüggemann	Ethanol 96%	7816041610	1
Brüggemann	Ethanol 96%	N781601257	1
Brüggemann	Ethanol 96%	N781704589	1
Brüggemann	Ethanol 96%	n781704927	1
Brüggemann	Ethanol 96%	N781705545	1
Brüggemann	Ethanol 96%	N781809235	1
Brüggemann	Ethanol 96%	N781909367	1
Brüggemann	Ethanol 96%	N782013618	1
Brüggemann	Ethanol 96%	N841700608	1
Brüggemann	Ethanol 96%	V032006616	1
Brüggemann	Ethanol 96%	V032006620	2
Brüggemann	Ethanol 96%	V781704599(1)	1
Brüggemann	Ethanol 96%	V781704599(2)	1
Brüggemann	Ethanol 96%	V781704599(3)	1
Brüggemann	Ethanol 96%	V781704599(4)	1
Brüggemann	Ethanol 96%	V781911659	1
BrüggemannAlcohol GmbH/...	Ethanol 96%		1
BrüggemannAlcohol Witte...	Ethanol 96%	N782012493	1
BrüggemannAlcohol Witte...	Ethanol 96%	N781703809	5
BrüggemannAlcohol Witte...	Ethanol 96%	N781704731	4
Brüggenmann/Alkohol	Ethanol 96%	7814020283	1
Brüggenmann/Alkohol	Ethanol 96%	7814060362	1
BrüggermannAlcohol/Sali...	Ethanol 96%	N781807122	1
brüggmann	Ethanol 96%	60100575563	1
Bundes...	Ethanol 96%	8042014	1
Bundesm.Brandwein	Ethanol 96%	140710	1
Bundesmonopolstelle für...	Ethanol 96%	xxxx	1
Bundesmonopolverw.	Ethanol 96%	20130903	1
Bundesmonopolverwaltung...	Ethanol 96%	2032012GI	1
Bundesmonopolverwaltung...	Ethanol 96%		5
cae	Ethanol 96%	19129502	1
Caelo	Ethanol 96%		12
Caelo	Ethanol 96%	1/12	1
Caelo	Ethanol 96%	104612018/09072018	1
Caelo	Ethanol 96%	120117/505/032	3
Caelo	Ethanol 96%	120319/74282/021	1
Caelo	Ethanol 96%	12345	1
Caelo	Ethanol 96%	126987	1
Caelo	Ethanol 96%	1410T31290518	1
Caelo	Ethanol 96%	170718/505/048	2
Caelo	Ethanol 96%	18181401	22
Caelo	Ethanol 96%	18181402	17
Caelo	Ethanol 96%	18191701	18
Caelo	Ethanol 96%	18191702	17
Caelo	Ethanol 96%	18306301	1
Caelo	Ethanol 96%	190000643001	1
Caelo	Ethanol 96%	19000643001	26
Caelo	Ethanol 96%	19002599	1
Caelo	Ethanol 96%	19030201	19
Caelo	Ethanol 96%	19030202	9
Caelo	Ethanol 96%	19129501	19
Caelo	Ethanol 96%	19129502	16
Caelo	Ethanol 96%	1929501	1
Caelo	Ethanol 96%	200002439001	1
Caelo	Ethanol 96%	20001378001	18
Caelo	Ethanol 96%	2000137801	1
Caelo	Ethanol 96%	20001583	1
Caelo	Ethanol 96%	20001887	1
Caelo	Ethanol 96%	20002439001	10
Caelo	Ethanol 96%	20003544001	13

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Ethanol 96%	20150908	1
Caelo	Ethanol 96%	20982018/05122017	1
Caelo	Ethanol 96%	21001403001	3
Caelo	Ethanol 96%	21001403002	3
Caelo	Ethanol 96%	21001403003	6
Caelo	Ethanol 96%	21001964	1
Caelo	Ethanol 96%	21002075	1
Caelo	Ethanol 96%	21002244	1
Caelo	Ethanol 96%	21002269	1
Caelo	Ethanol 96%	21002294001	9
Caelo	Ethanol 96%	21002758001	4
Caelo	Ethanol 96%	21002758002	3
Caelo	Ethanol 96%	220000086	1
Caelo	Ethanol 96%	22000096	1
Caelo	Ethanol 96%	22000101001	1
Caelo	Ethanol 96%	22000392	1
Caelo	Ethanol 96%	22000641	1
Caelo	Ethanol 96%	22000999	1
Caelo	Ethanol 96%	22001718	1
Caelo	Ethanol 96%	22001948	1
Caelo	Ethanol 96%	22001985	2
Caelo	Ethanol 96%	23000480	1
Caelo	Ethanol 96%	23000749	2
Caelo	Ethanol 96%	23000998	1
Caelo	Ethanol 96%	23000998/1050816	1
Caelo	Ethanol 96%	23001357	1
Caelo	Ethanol 96%	23001368	3
Caelo	Ethanol 96%	23001968	1
Caelo	Ethanol 96%	2394894	2
Caelo	Ethanol 96%	24000034	1
Caelo	Ethanol 96%	24000856	1
Caelo	Ethanol 96%	24000863	2
Caelo	Ethanol 96%	24001427	1
Caelo	Ethanol 96%	24002163	1
Caelo	Ethanol 96%	24002259	1
Caelo	Ethanol 96%	25000305	1
Caelo	Ethanol 96%	25000361	1
Caelo	Ethanol 96%	25001138	2
Caelo	Ethanol 96%	25001144	1
Caelo	Ethanol 96%	25001980	1
Caelo	Ethanol 96%	26000285	1
Caelo	Ethanol 96%	26001211	1
Caelo	Ethanol 96%	410300518106	1
Caelo	Ethanol 96%	5678	1
Caelo	Ethanol 96%	7813010053	2
Caelo	Ethanol 96%	87872017/29052017	1
Caelo	Ethanol 96%	90309001/PR	1
Caelo	Ethanol 96%	915A-03041	1
Caelo	Ethanol 96%	AKD7	1
Caelo	Ethanol 96%	CH24002163	1
Caelo	Ethanol 96%	CHB19000643001	1
Caelo	Ethanol 96%	K43619871227	1
Caelo	Ethanol 96%	K46109471	1
Caelo	Ethanol 96%	K47876771620	1
Caesar & Loretz GmbH / ...	Ethanol 96%	18191702	1
Caesar & Loretz GmbH / ...	Ethanol 96%	19129501	3
Caesar & Loretz GmbH / ...	Ethanol 96%	21001403001	1
Caesar & Loretz GmbH / ...	Ethanol 96%	20001378001	2
Caesar & Loretz GmbH /F...	Ethanol 96%	19129501	1
Caesar & Loretz GmbH/ F...	Ethanol 96%	21002294001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/ K...	Ethanol 96%	19129502	2
Caesar & Loretz GmbH/ N...	Ethanol 96%	19000643001	1
Caesar & Loretz GmbH/ S...	Ethanol 96%	20002439001	1
Caesar & Loretz GmbH/Fi...	Ethanol 96%	18191701	1
Caesar & Loretz GmbH/Fi...	Ethanol 96%	20001378001	1
Caesar & Loretz GmbH/Gehe	Ethanol 96%	19030201	1
Caesar & Loretz GmbH/Gehe	Ethanol 96%	19129501	1
Caesar & Loretz GmbH/Gehe	Ethanol 96%	20001378001	2
Caesar & Loretz GmbH/Gehe	Ethanol 96%	21001403001	1
Caesar & Loretz GmbH/Kehr	Ethanol 96%	19030201	1
Caesar & Loretz GmbH/Kr...	Ethanol 96%	19129502	1
Caesar & Loretz GmbH/No...	Ethanol 96%	21001403003	1
Caesar & Loretz GmbH/No...	Ethanol 96%	21002294001	1
Caesar & Loretz GmbH/P	Ethanol 96%	19129501	1
Caesar & Loretz GmbH/Phoe	Ethanol 96%	21001403002	1
Caesar & Loretz GmbH/Ph...	Ethanol 96%	200013780	1
Caesar & Loretz GmbH/Sana	Ethanol 96%	19030201	2
Caesar & Loretz GmbH/Sana	Ethanol 96%	21001403002	1
Caesar & Loretz GmbH/Sa...	Ethanol 96%	19129502	5
Caesar & Loretz GmbH/Sa...	Ethanol 96%	21002758001	1
Caesar & Loretz GmbH	Ethanol 96%	18191702	6
Caesar & Loretz GmbH	Ethanol 96%	19000643001	5
Caesar & Loretz GmbH	Ethanol 96%	19030201	7
Caesar & Loretz GmbH	Ethanol 96%	19030202	1
Caesar & Loretz GmbH	Ethanol 96%	19129501	11
Caesar & Loretz GmbH	Ethanol 96%	19129502	15
Caesar & Loretz GmbH	Ethanol 96%	20001378001	12
Caesar & Loretz GmbH	Ethanol 96%	20002439001	5
Caesar & Loretz GmbH	Ethanol 96%	20003544001	10
Caesar & Loretz GmbH	Ethanol 96%	21001403001	2
Caesar & Loretz GmbH	Ethanol 96%	21001403002	2
Caesar & Loretz GmbH	Ethanol 96%	21002294001	7
Caesar & Loretz GmbH	Ethanol 96%	21002758001	4
Caesar & Loretz GmbH	Ethanol 96%	21002758002	5
Caesar & Loretz GmbH	Ethanol 96%	22000101001	2
Caesar & Loretz GmbH	Ethanol 96%	27001078	1
Caesar & Loretz GmbHPho...	Ethanol 96%	22000101001	1
Caesar/Phoenix	Ethanol 96%	19129502	1
Carlo/ Phönix	Ethanol 96%	19000643001	1
Clara Hof Destillerie- ...	Ethanol 96%		1
Crop Energies Bioethano...	Ethanol 96%	72V0015	1
crop energies/ Lichtena...	Ethanol 96%	27032020	1
CropEnergies/Aromatique	Ethanol 96%	12110469	1
Dankwart	Ethanol 96%	J0140242	1
Defektur/Wolf Apotheke	Ethanol 96%	2019E-07077	1
Destillerie Kammer-Kirsch	Ethanol 96%	Sorte410	3
Dextro	Ethanol 96%	2012-231	1
DHL	Ethanol 96%	11062013	1
Direkt	Ethanol 96%	20190404	1
Direktbestellung/Martin...	Ethanol 96%		2
Dr. Miller, Alkoholvert...	Ethanol 96%	81692019/13052019	1
Drop.energies/ Südzucke...	Ethanol 96%	72V0015	1
eal Euro Alkohol	Ethanol 96%	20140100	2
eal Euro-Alkohol	Ethanol 96%		1
Eal Euro-Alkohol	Ethanol 96%	20140100	1
eal	Ethanol 96%	20150108	1
Eckerts Wacholder Brenn...	Ethanol 96%	1718A03041	1
Eckerts WacholderBrenne...	Ethanol 96%	455GT2	1
Eigenherstellung für Re...	Ethanol 96%	23062020	1
Emil Scheibel Schwarzwa...	Ethanol 96%		2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Emil Scheibel Schwarzwa...	Ethanol 96%	450MT2	1
Engel	Ethanol 96%	1410T31170619	1
Engel	Ethanol 96%	1410T31290518	1
Ethanol	Ethanol 96%	18181401	1
Euro Alkohol GmbH	Ethanol 96%	16532020	1
Euro Alkohol GmbH	Ethanol 96%	20150108	1
Euro Alkohol GmbH	Ethanol 96%	20170160	1
Euro Alkohol Schmittmann	Ethanol 96%	11031708	1
Euro OTC	Ethanol 96%		1
Euro OTC	Ethanol 96%	18001042	1
Euro OTC	Ethanol 96%	18191702	1
Euro OTC	Ethanol 96%	20001378001	1
Euro OTC	Ethanol 96%	24000186	1
Euro OTC	Ethanol 96%	27042017	1
euro-alkohol/schmittmann	Ethanol 96%	20170160	1
Fa Karl Josef Kost, Kob...	Ethanol 96%	5mal410150520132	1
Fa. Karl Kost Koblenz	Ethanol 96%	410040216085	2
Fa. Karl Kost Koblenz	Ethanol 96%	410041115082	1
Fa.Karl-Josef Kost/Kobl...	Ethanol 96%	410120320128	1
Fa.Kost Koblenz	Ethanol 96%	410100521142	1
Fagron	Ethanol 96%		1
Fagron	Ethanol 96%	10971471840	1
Fagron	Ethanol 96%	1410T31200516	1
Fagron	Ethanol 96%	19001836	1
Fagron	Ethanol 96%	19F14-B01-363425	1
Fagron	Ethanol 96%	22000096	1
Fagron	Ethanol 96%	22001291	1
Fagron	Ethanol 96%	22001718	2
Fagron	Ethanol 96%	23002116	1
Fagron	Ethanol 96%	26000285	1
Fiebig	Ethanol 96%		2
Fiebig	Ethanol 96%	12020161/1	1
Fiebig	Ethanol 96%	20003544001	2
Finteler Apotheke	Ethanol 96%	170407	1
Firma Behlen	Ethanol 96%	1410T1061217	1
Firma Kost/Krieger	Ethanol 96%	410311014072	1
Fischar/Novatis	Ethanol 96%	7011061-1071	1
Frick, Duchroth	Ethanol 96%	19-129212-03	1
FRICK	Ethanol 96%	16194703	1
Friedrich Schwarze	Ethanol 96%	CH839/L9390097	1
Frohnbachtaler Edelbrände	Ethanol 96%	KeineCharge	1
Gehe am 18.02.2014	Ethanol 96%	20002191	1
Gehe Kassel	Ethanol 96%		1
Gehe Laborchemie Apolda...	Ethanol 96%	19000689	1
Gehe/ Laborchemie Apolda	Ethanol 96%	26001268	1
GEHE/ Spinnrad	Ethanol 96%	12532019/03122018	1
Gehe/ApoldaGmbH	Ethanol 96%	24002163	1
Gehe/Dr. Wolllff	Ethanol 96%	21002237	2
Gehe/Laborchemie APOLDA...	Ethanol 96%	27001590	1
Gehe/Laborchemie Apolda	Ethanol 96%	20000973	1
Gehe/Laborchemie Apolda	Ethanol 96%	23001368	1
Gehe/Laborchemie apolda	Ethanol 96%	27000743	1
Gehe	Ethanol 96%	1017310073	1
GEHE	Ethanol 96%	18181401	1
Gehe	Ethanol 96%	20002439001	1
Gehe	Ethanol 96%	22001291	1
Gehe	Ethanol 96%	23000175	1
Gehe	Ethanol 96%	23000997	1
Gehe	Ethanol 96%	23001968	1
Gehe	Ethanol 96%	25000305	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
GEHE	Ethanol 96%	25000353	1
Gehe	Ethanol 96%	25001144	1
Gehe	Ethanol 96%	25001980	2
GEHE	Ethanol 96%	26000283	1
GEHE	Ethanol 96%	26001268	1
gehe	Ethanol 96%	2602066	1
Gehe	Ethanol 96%	DE00001237810	1
Gehe	Ethanol 96%	LieferungMai2013	1
Gehe-Apolda	Ethanol 96%	2000/1895	1
Gehe-Apolda	Ethanol 96%	20001885	1
Geistreich	Ethanol 96%	6042020	1
Greif Apotheke	Ethanol 96%	3119A-0230	1
Greif Apotheke	Ethanol 96%	4719E-0230	1
Gutenberg-Apotheke	Ethanol 96%	904214	1
Hamburg Destilling Comp...	Ethanol 96%	KH0500	1
Hänseler	Ethanol 96%		24
HB Alkoholvertrieb	Ethanol 96%		1
HDC	Ethanol 96%	200421	2
Hedinger / Anzag	Ethanol 96%	24000161	1
Hedinger	Ethanol 96%	22001720	1
hedinger	Ethanol 96%	25001980	1
Hedinger	Ethanol 96%	30013	1
Hedinger	Ethanol 96%	701214B	4
Heidinger/ Noweda	Ethanol 96%	2215M	1
Henry Lamotte Oil / Gehe	Ethanol 96%	25001144	2
Hessische Spezialitäten...	Ethanol 96%	410_108_1501	1
Hessische Spezialitäten...	Ethanol 96%	Sorte410Neutralalkohol	1
HessSpezialitätenbrenne...	Ethanol 96%	1410T1170320	1
hetterich	Ethanol 96%	3574702	1
Heyl / AHD	Ethanol 96%	20001830	1
Heyl / Alliance Healthc...	Ethanol 96%	270007514x	1
Heyl / Gehe	Ethanol 96%	27000531	1
Heyl / Noweda	Ethanol 96%	23001368	1
Heyl / Noweda	Ethanol 96%	26000285	1
Heyl / Noweda	Ethanol 96%	26001268	1
Heyl / Noweda	Ethanol 96%	27001078	1
Heyl / Sanacorp	Ethanol 96%		1
Heyl / Sanacorp	Ethanol 96%	21001373	1
Heyl / Sanacorp	Ethanol 96%	21001379	1
Heyl / Sanacorp	Ethanol 96%	28001615	1
Heyl Laborchemie Apolda...	Ethanol 96%	23002116	1
Heyl Laborchemie/Sanacorp	Ethanol 96%	27000743	1
Heyl Laborchmeie/Noweda	Ethanol 96%	27000561	1
Heyl(Laborchemie Apolda...	Ethanol 96%	21002064	1
Heyl/ Noweda	Ethanol 96%	24001427	1
heyl/ Noweda	Ethanol 96%	23001968	2
heyl/ Noweda	Ethanol 96%	24002259	1
heyl/ Noweda	Ethanol 96%	25001955	1
Heyl/ Phoenix	Ethanol 96%	23001368	1
Heyl/ Phoenix	Ethanol 96%	24002163	4
Heyl/ Sanacorp	Ethanol 96%	24001427	1
Heyl/Alliance	Ethanol 96%	25001980	2
Heyl/Anzag	Ethanol 96%	22001291	1
Heyl/Gehe	Ethanol 96%	22001717	1
Heyl/Gehe	Ethanol 96%	22001948	1
Heyl/Gehe	Ethanol 96%	24000863	1
Heyl/Gehe	Ethanol 96%	25001138	1
Heyl/Gehe	Ethanol 96%	25001144	1
Heyl/Gehe	Ethanol 96%	26000283	1
Heyl/Laborchemie Apolda...	Ethanol 96%	27000934	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Heyl/Noweda	Ethanol 96%	22000326	1
Heyl/Noweda	Ethanol 96%	23000749	1
Heyl/Noweda	Ethanol 96%	23002116	3
Heyl/Noweda	Ethanol 96%	24000034	1
Heyl/Noweda	Ethanol 96%	24001427	1
Heyl/Noweda	Ethanol 96%	25001980	2
Heyl/Noweda	Ethanol 96%	26002023	1
Heyl/Phoenix	Ethanol 96%	21002268	1
Heyl/Phoenix	Ethanol 96%	24002163	2
Heyl/Phönix	Ethanol 96%	23000749	1
Heyl/Phönix	Ethanol 96%	23001368	1
Heyl/Sanacorp Hl	Ethanol 96%	27000743	2
Heyl/Sanacorp	Ethanol 96%	240001427	1
Heyl/Sanacorp	Ethanol 96%	24001496	1
Heyl/Sanacorp	Ethanol 96%	24002163	2
Heyl/Sanacorp	Ethanol 96%	25000305	5
Heyl/Sanacorp	Ethanol 96%	25001144	1
Heyl/Sanacorp	Ethanol 96%	25001980	1
Heyl	Ethanol 96%	22000392	1
Heyl	Ethanol 96%	22000394	1
heyl	Ethanol 96%	22001291	1
Heyl	Ethanol 96%	22001292	1
Heyl	Ethanol 96%	22001948	1
Heyl	Ethanol 96%	23000188	1
Heyl	Ethanol 96%	23000189	1
HEYL	Ethanol 96%	23000749	1
Heyl	Ethanol 96%	23000750	1
Heyl	Ethanol 96%	23001368	2
Heyl	Ethanol 96%	24000163	1
Heyl	Ethanol 96%	24000187	1
Heyl	Ethanol 96%	24000856	2
heyl	Ethanol 96%	24001496	1
heyl	Ethanol 96%	24002163	1
Heyl	Ethanol 96%	24002163	1
Heyl	Ethanol 96%	24008630	1
Heyl	Ethanol 96%	2400920	1
heyl	Ethanol 96%	25000305	1
Heyl	Ethanol 96%	25000305	2
heyl	Ethanol 96%	25001144	1
Heyl	Ethanol 96%	25001144	1
heyl	Ethanol 96%	25001980	2
Heyl	Ethanol 96%	25001980	1
Heyl	Ethanol 96%	26002066	1
Heyl	Ethanol 96%	27000539	1
Heyl	Ethanol 96%	27000675	1
Heyl	Ethanol 96%	27000743	1
Höfer chemie	Ethanol 96%	237398/0	1
Höfer Chemie	Ethanol 96%	23739870	1
Hoffmann/ Martinus-Apot...	Ethanol 96%	E-060815-1	1
Hoffmann/ Noweda	Ethanol 96%	E-121017-1	1
Hoffmann/ Noweda	Ethanol 96%	E-231213-1	2
Hoffmann/Schmittmann	Ethanol 96%	20150108	1
Hoffmann	Ethanol 96%	123456	1
Hoffmann	Ethanol 96%	16061405	1
Hoffmann	Ethanol 96%	17/09/07-1	1
hoffmann	Ethanol 96%	19/10/10	1
Hoffmann	Ethanol 96%	20160007	1
Hoffmann	Ethanol 96%	28081201	1
Hoffmann	Ethanol 96%	E-200412-1	2
Hofmann Noweda	Ethanol 96%	20/10/19	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hofmann,Branntweinmonopol	Ethanol 96%		1
Hofmann,Branntweinmonopol	Ethanol 96%	20140162	1
Hofmann,Branntweinmonopol	Ethanol 96%	20170160	1
Hofmann/Schmittmann Korn	Ethanol 96%	19/10/10	1
Hofmann/Schmittmann Korn	Ethanol 96%	VE49528	1
Hofmann/Schmittmann	Ethanol 96%	20160007	1
Hofmann	Ethanol 96%	20150278	1
Honberg-Apo	Ethanol 96%	L27420	1
Horst Brand Trier	Ethanol 96%		1
Horst Brand Trier	Ethanol 96%	1410T31010420	1
Horst Brand Trier	Ethanol 96%	8052020	1
Hubertus Apotheke	Ethanol 96%	23001968	1
Ichthyol/Gehe	Ethanol 96%	18122017/25112016	1
Jovi Intern.UG /Buchmül...	Ethanol 96%	VE49950	1
K.J. Kost/Krieger	Ethanol 96%	410220114066	1
Kammer Kirsch	Ethanol 96%		1
Kammer Kirsch	Ethanol 96%	200-578-6	1
Kammer Kirschner	Ethanol 96%		1
Kammer/Kirsch	Ethanol 96%	V131702621	1
Kammer-Kirsch GmbH	Ethanol 96%	N832103116	1
KammerKirsch Karlsruhe	Ethanol 96%	200320	1
Kammer-Kirsch	Ethanol 96%	120216	1
Karl Josef Kost Alkohole	Ethanol 96%	410150520132	1
Karl Josef Kost	Ethanol 96%	410191018111	1
Karl JosefKost	Ethanol 96%	410181217102	1
Karl Kost Alkohole	Ethanol 96%	410050319115	1
Karl Kost Alkohole	Ethanol 96%	410150420131	1
Karl Kost Alkohole	Ethanol 96%	410310120126	1
Karl-Josef KG	Ethanol 96%	410110117094	1
Karl-Josef Kost Alkohol...	Ethanol 96%	41004115082	1
Karl-Josef Kost Alkohol...	Ethanol 96%	410190516087	1
Karl-Josef Kost Alkohol...	Ethanol 96%	410070119113	1
Karl-Josef Kost/Krieger	Ethanol 96%	410181217102	1
Karl-Josef Kost/Krieger	Ethanol 96%	410310120126	4
Karl-Josef Kost	Ethanol 96%	410040216085	1
Karl-Josef Kost	Ethanol 96%	410050319115	1
Karl-Josef Kost	Ethanol 96%	410181217102	1
Karl-Josef Kost	Ethanol 96%	410270917100	1
Karl-Josef Kost	Ethanol 96%	410310120126	1
Karl-Josef-Kost	Ethanol 96%	410070119113	1
Karl-Josef-Kost	Ethanol 96%	410230519117	1
Kassner & Sasse	Ethanol 96%	12/11/23	1
Kassner & Sasse	Ethanol 96%	16/02/02	1
Kehr	Ethanol 96%	24000186	1
Kessler	Ethanol 96%	8020-3	1
Klenk	Ethanol 96%	10059387-15102	1
Kloster Apotheke	Ethanol 96%		1
Kloster Apotheke	Ethanol 96%	999999	1
Kornbrennerei J.J.Kemper	Ethanol 96%	1208	1
Kornbrennerei J.J.Kemper	Ethanol 96%	4000	1
Kost Alkohole	Ethanol 96%	410050718107	1
Kost Alkohole	Ethanol 96%	410130217095	3
Kost Alkohole	Ethanol 96%	410160719119	1
Kost Alkohole	Ethanol 96%	41251119124	1
Kost Koblenz/ Krieger	Ethanol 96%	410150420131	4
Kost Koblenz/ Krieger	Ethanol 96%	410251119124	1
Kost Koblenz/ Krieger	Ethanol 96%	410300119114	1
Kost Koblenz	Ethanol 96%	410240417096	1
Kost/13.12.13	Ethanol 96%	410051213065	3
Kost/kost/sophien	Ethanol 96%	4065280513	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Kost/kost/sophien	Ethanol 96%	410051213065	2
Kost/Krieger/04.07.13	Ethanol 96%	410040713061	2
Kost/Krieger/05.12.13	Ethanol 96%	410111113064	2
Kost/Krieger/12.08.13	Ethanol 96%	410130313059	2
Kost/Krieger/18.03.14	Ethanol 96%	410220114066	1
Kost/Krieger/18.10.13	Ethanol 96%	410081013063	2
Kost/Krieger/26.06.13	Ethanol 96%	410140513060	1
Kost/sophien	Ethanol 96%	410010414067	1
kost	Ethanol 96%	410031212052	1
Kost	Ethanol 96%	410071019122	1
Kost	Ethanol 96%	410130217095	1
Kost	Ethanol 96%	410160719-119	1
Kost	Ethanol 96%	410191018111	1
Kost	Ethanol 96%	410200918110	1
Kost	Ethanol 96%	410221116092	1
Kost	Ethanol 96%	410261017101	1
Kost	Ethanol 96%	410300316086	1
Kottkamp Alkoholver.	Ethanol 96%	120117/505/032	1
Kottkamp Alkoholvertr.	Ethanol 96%	230414	1
Kottkamp Alkoholvertrie...	Ethanol 96%	1512155050519	1
Kottkamp Alkoholvertrie...	Ethanol 96%	211114/505/008	1
Kottkamp Alkoholvertrie...	Ethanol 96%	160714/505/004	1
Kottkamp Alkoholvertrie...	Ethanol 96%	1200117/505/032	1
Kottkamp Alkoholvertrie...	Ethanol 96%	120117/505/32	1
Kottkamp Alkoholvertrie...	Ethanol 96%	200918/505/050	2
Kottkamp Alkoholvertrie...	Ethanol 96%	201017/505/040	3
Kottkamp Alkoholvertrie...	Ethanol 96%	21117/505/041	1
Kottkamp Alkoholvertrie...	Ethanol 96%	220817/505/038	1
Kottkamp Alkoholvertrie...	Ethanol 96%	221117/505/042	1
Kottkamp Alkoholvertrie...	Ethanol 96%	70218/505/043	2
Kottkamp Alkoholvertrieb	Ethanol 96%	180213	1
Kottkamp Alkoholvertrieb	Ethanol 96%	71118/505/051	3
Kottkamp Alkoholvertrieb	Ethanol 96%	90318/505/044	1
kottkamp,gehe	Ethanol 96%	130513	1
Kottkamp/Anzag	Ethanol 96%	130116/505/020	1
kottkamp/Anzag	Ethanol 96%	61015/505/017	1
Kottkamp/Direkt	Ethanol 96%	4915A-03041	1
Kottkamp/Gehe	Ethanol 96%	121213	1
Kottkamp/Phönix	Ethanol 96%	151215/505/019	1
Kottkamp	Ethanol 96%	71026022	1
Kraul & Wikening u. Ste...	Ethanol 96%	10420/122/001	1
Kraul & Wilkening u. St...	Ethanol 96%	10420/122/001	2
Kraul & Wilkening u. St...	Ethanol 96%	270320/74282/037	1
Kraul und Wilkening	Ethanol 96%		1
Kraul und Wilkening	Ethanol 96%	281217/74282/008	1
Kraul& Wilkening u. Ste...	Ethanol 96%	10420/122/001	1
Kraul&Wilkening u. Stel...	Ethanol 96%	10420/122/001	1
Kraul&Wilkening u.Stell...	Ethanol 96%	11/18	1
Kraul&Wilkening u.Stell...	Ethanol 96%	211202(010420/122/001)	1
Kraul&Wilkening u.Stell...	Ethanol 96%	220414(010420/122/001)	1
Kraul&Wilkening u.Stell...	Ethanol 96%	3/19	1
Kraul&Wilkening und Ste...	Ethanol 96%		1
Kraul&Wilkwning u. Stel...	Ethanol 96%	270320/74282/036	1
Kraul_Wi	Ethanol 96%	271119/74282/028	1
Kraul-Wilkening-Stellin...	Ethanol 96%		1
Kraut und Wilkening u. ...	Ethanol 96%	10420/122/001	1
Krieger / Kost / 27.08.13	Ethanol 96%	410090813062	2
Krugmann	Ethanol 96%	1720	1
Krugmann	Ethanol 96%	8124	1
Kullmanns Obstbrennerei	Ethanol 96%	3146	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
KWST Kraul & Wilkenin...	Ethanol 96%	260320/011/004	1
KWST / KWST	Ethanol 96%	10420/122/001	1
KWST / KWST	Ethanol 96%	141019/74282/026	2
KWST / KWST	Ethanol 96%	1410197/74282/026	1
KWST / KWST	Ethanol 96%	190618/74282/012	3
KWST / KWST	Ethanol 96%	60008	1
KWST Kraul & Wilkening ...	Ethanol 96%	10420/122/001	1
KWST/dpd	Ethanol 96%	10420/122/001	2
KWST/dpd	Ethanol 96%	231017/505/005	1
KWST/KWST	Ethanol 96%	61119/74282/027	1
Kwst/Walther CMP	Ethanol 96%	290814	1
kwst	Ethanol 96%	10420/122/001	1
KWST	Ethanol 96%	10420/122/001	4
KWST	Ethanol 96%	190320/011/002	1
KWST	Ethanol 96%	190618/74282/012	1
KWST	Ethanol 96%	220422/122/002	1
KWST	Ethanol 96%	230320/011/003	1
KWST	Ethanol 96%	240519/74282/023	2
KWST	Ethanol 96%	260320/011/004	1
KWST	Ethanol 96%	281217/74282/008	1
KWST	Ethanol 96%	290819/74282/025	1
KWST	Ethanol 96%	50220/74282/032	1
KWST	Ethanol 96%	60219/74282/020	1
KWST	Ethanol 96%	64-17-5	1
KWST	Ethanol 96%	70220/015/001	1
Labochemie/ Phönix	Ethanol 96%	24002163	1
Labopharm/Sanacorp	Ethanol 96%	25001144	1
Laborcemie Apolda/Gehe	Ethanol 96%	22000999	1
Laborcemie Apolda/PHOENIX	Ethanol 96%	100051	1
Laborch. Apolda/ Noweda	Ethanol 96%	21002237	1
Laborch. Apolda/ Noweda	Ethanol 96%	22001291	1
Laborch. Apolda/ Noweda	Ethanol 96%	22001718	1
Laborch. Apolda/ Noweda	Ethanol 96%	23000997	1
Laborch. Apolda	Ethanol 96%	18001881	1
Laborch.Apolda/Gehe	Ethanol 96%	21002269	1
Laborch.Apolda/Gehe	Ethanol 96%	26000285	1
Laborch.Apolda/Noweda	Ethanol 96%	27000675	2
Laborch.Apolda/Phönix	Ethanol 96%	26001211	1
Laborch	Ethanol 96%	24001427	1
Laborchemie / Alliance...	Ethanol 96%	26000283	1
Laborchemie / Anzag	Ethanol 96%	25001144	2
Laborchemie / Noweda	Ethanol 96%	20001830	1
Laborchemie / Noweda	Ethanol 96%	26002023	2
Laborchemie / Sanacorp	Ethanol 96%	22001717	1
laborchemie abolda gmbh	Ethanol 96%	19112005	1
Laborchemie Apolada/Pho...	Ethanol 96%	26002066	1
Laborchemie Apold GmbH	Ethanol 96%	21002269	1
Laborchemie Apold GmbH	Ethanol 96%	22001948	1
Laborchemie Apold GmbH	Ethanol 96%	23001968	1
Laborchemie Apolda ,Gehe	Ethanol 96%	21002075	1
Laborchemie Apolda ,Gehe	Ethanol 96%	22000641	1
Laborchemie Apolda ,Gehe	Ethanol 96%	24002263	1
Laborchemie Apolda / S...	Ethanol 96%	26001268	1
Laborchemie Apolda / Gehe	Ethanol 96%	25001980	1
Laborchemie Apolda / Gehe	Ethanol 96%	26000285	1
Laborchemie Apolda / Gehe	Ethanol 96%	27000675	1
Laborchemie Apolda / Gehe	Ethanol 96%	27001084	1
Laborchemie Apolda / No...	Ethanol 96%	26001211	1
Laborchemie Apolda / No...	Ethanol 96%	26002023	1
Laborchemie Apolda / No...	Ethanol 96%	27000561	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Laborchemie Apolda / No...	Ethanol 96%	27000675	1
Laborchemie apolda /Now...	Ethanol 96%	CHB26001998	1
Laborchemie Apolda GmbH...	Ethanol 96%	21001561	1
Laborchemie Apolda GmbH...	Ethanol 96%	25000305	1
Laborchemie Apolda GmbH...	Ethanol 96%	29000309	1
Laborchemie Apolda GmbH...	Ethanol 96%	24001427	1
Laborchemie Apolda GmbH...	Ethanol 96%	27001078	1
Laborchemie Apolda GmbH...	Ethanol 96%	27001625	1
Laborchemie Apolda GmbH...	Ethanol 96%	28000790	1
LABORCHEMIE APOLDA GmbH...	Ethanol 96%	23001968	1
Laborchemie Apolda GmbH...	Ethanol 96%	260001277	1
Laborchemie Apolda GmbH...	Ethanol 96%	25001955	1
Laborchemie Apolda GmbH...	Ethanol 96%	26002023	1
Laborchemie Apolda GmbH...	Ethanol 96%	27000561	1
Laborchemie Apolda GmbH...	Ethanol 96%	25001980	1
Laborchemie Apolda GMBH...	Ethanol 96%	21002244	1
Laborchemie Apolda GmbH...	Ethanol 96%	220030	1
Laborchemie Apolda GmbH...	Ethanol 96%	23000749	1
LABORCHEMIE APOLDA GmbH...	Ethanol 96%	23001368	1
Laborchemie Apolda GmbH...	Ethanol 96%	24001427	1
Laborchemie Apolda GMBH...	Ethanol 96%	25001954	1
Laborchemie Apolda GmbH...	Ethanol 96%	26000327	1
Laborchemie Apolda GmbH...	Ethanol 96%	23001368	1
Laborchemie Apolda GmbH...	Ethanol 96%	24001494	1
Laborchemie Apolda GmbH...	Ethanol 96%	25000361	2
Laborchemie Apolda GmbH...	Ethanol 96%	25001955	1
Laborchemie Apolda GmbH...	Ethanol 96%	26000283	1
Laborchemie Apolda GmbH...	Ethanol 96%	22000616	1
Laborchemie Apolda GmbH...	Ethanol 96%	27000675	1
Laborchemie Apolda GmbH...	Ethanol 96%	23001357	1
Laborchemie Apolda GmbH...	Ethanol 96%	24000187	1
Laborchemie Apolda GmbH...	Ethanol 96%	24000927	1
LABORCHEMIE APOLDA GmbH...	Ethanol 96%	25000361	2
laborchemie apolda gmbh...	Ethanol 96%	25001144	1
Laborchemie Apolda GmbH...	Ethanol 96%	25001954	1
LABORCHEMIE APOLDA GmbH...	Ethanol 96%	25001955	1
LABORCHEMIE APOLDA GmbH...	Ethanol 96%	26000283	1
Laborchemie Apolda GmbH...	Ethanol 96%	27000539	2
Laborchemie Apolda GMBH...	Ethanol 96%	22001985	1
Laborchemie APOLDA gmbH...	Ethanol 96%	24000863	1
Laborchemie Apolda GmbH...	Ethanol 96%	24001427	1
Laborchemie Apolda GMBH...	Ethanol 96%	25000305	1
Laborchemie APOLDA GmbH...	Ethanol 96%	25000305	1
LABORCHEMIE APOLDA GmbH...	Ethanol 96%	27001084	1
Laborchemie APOLDA GmbH...	Ethanol 96%	21002237	1
Laborchemie Apolda GmbH...	Ethanol 96%	23000749	3
Laborchemie Apolda GmbH...	Ethanol 96%	23001368	1
Laborchemie Apolda GmbH...	Ethanol 96%	23002116	1
Laborchemie Apolda GmbH...	Ethanol 96%	24001427	1
Laborchemie Apolda GmbH...	Ethanol 96%	27000675	1
Laborchemie Apolda GmbH	Ethanol 96%	19001937	1
Laborchemie Apolda GmbH	Ethanol 96%	21000154	1
Laborchemie APOLDA GmbH	Ethanol 96%	21001561	1
Laborchemie Apolda GmbH	Ethanol 96%	21001736	1
Laborchemie Apolda GmbH	Ethanol 96%	21002268	1
Laborchemie Apolda GmbH	Ethanol 96%	21002269	1
Laborchemie Apolda GmbH	Ethanol 96%	22000394	1
Laborchemie Apolda GmbH	Ethanol 96%	22000616	2
Laborchemie APOLDA GmbH	Ethanol 96%	22000616	1
Laborchemie Apolda GMBH	Ethanol 96%	22001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Laborchemie APOLDA GmbH	Ethanol 96%	22001291	1
Laborchemie Apolda GmbH	Ethanol 96%	22001985	1
Laborchemie Apolda gmbh	Ethanol 96%	22002230	1
Laborchemie Apolda GmbH	Ethanol 96%	22002231	1
Laborchemie Apolda GmbH	Ethanol 96%	23000188	3
Laborchemie Apolda GmbH	Ethanol 96%	23000189	1
Laborchemie Apolda Gmbh	Ethanol 96%	23000749	1
Laborchemie Apolda GmbH	Ethanol 96%	23000749	1
Laborchemie APOLDA GmbH	Ethanol 96%	23000997	1
Laborchemie Apolda GmbH	Ethanol 96%	23001357	1
laborchemie apolda gmbh	Ethanol 96%	23001368	1
Laborchemie Apolda GmbH	Ethanol 96%	23001368	1
Laborchemie Apolda GmbH	Ethanol 96%	23002116	1
Laborchemie APOLDA GmbH	Ethanol 96%	23002116	1
Laborchemie Apolda GmbH	Ethanol 96%	24000186	1
Laborchemie Apolda GmbH	Ethanol 96%	24000187	1
Laborchemie Apolda GmbH	Ethanol 96%	24000856	2
Laborchemie Apolda GMBH	Ethanol 96%	24000856	1
Laborchemie Apolda GmbH	Ethanol 96%	24001427	1
Laborchemie Apolda GmbH	Ethanol 96%	24001494	1
Laborchemie Apolda GmbH	Ethanol 96%	24002163	1
LABORCHEMIE APOLDA GmbH	Ethanol 96%	24002259	1
Laborchemie Apolda GmbH	Ethanol 96%	25000305	4
Laborchemie Apolda GmbH	Ethanol 96%	25000361	2
Laborchemie APOLDA GmbH	Ethanol 96%	25000361	1
Laborchemie Apolda GmbH	Ethanol 96%	25001139	1
Laborchemie Apolda GmbH	Ethanol 96%	25001144	2
Laborchemie Apolda GmbH	Ethanol 96%	25001980	1
Laborchemie APOLDA GmbH	Ethanol 96%	25001980	1
Laborchemie Apolda GmbH	Ethanol 96%	26001268	1
Laborchemie Apolda GmbH	Ethanol 96%	26001277	1
Laborchemie Apolda GmbH	Ethanol 96%	26002023	1
Laborchemie Apolda GmbH	Ethanol 96%	27000531	2
Laborchemie Apolda GmbH	Ethanol 96%	27000539	1
Laborchemie Apolda GmbH	Ethanol 96%	27000593	1
Laborchemie Apolda GmbH	Ethanol 96%	27000675	1
Laborchemie Apolda GmbH	Ethanol 96%	27001084	1
Laborchemie Apolda GmbH	Ethanol 96%	28001615	1
Laborchemie Apolda Heyl...	Ethanol 96%	24000186	1
Laborchemie Apolda Heyl...	Ethanol 96%	20001887	1
Laborchemie Apolda Heyl	Ethanol 96%	20001885	1
Laborchemie Apolda Heyl	Ethanol 96%	27000743	1
Laborchemie Apolda Heyl	Ethanol 96%	27000934	1
Laborchemie Apolda über...	Ethanol 96%	21001964	1
Laborchemie Apolda über...	Ethanol 96%	22002230	1
Laborchemie Apolda über...	Ethanol 96%	23000997	1
Laborchemie Apolda/ AHD	Ethanol 96%	25000461	1
Laborchemie Apolda/ All...	Ethanol 96%	23001368	1
Laborchemie Apolda/ All...	Ethanol 96%	24001427	1
Laborchemie Apolda/ All...	Ethanol 96%	25001954	2
Laborchemie Apolda/ All...	Ethanol 96%	26002023	1
Laborchemie Apolda/ All...	Ethanol 96%	27000751	1
Laborchemie Apolda/ All...	Ethanol 96%	24000187	1
Laborchemie Apolda/ Gehe	Ethanol 96%	27000531	1
Laborchemie APOLDA/ Now...	Ethanol 96%	20001574	1
Laborchemie Apolda/ Now...	Ethanol 96%	23000750	6
Laborchemie Apolda/ Now...	Ethanol 96%	23001785	4
Laborchemie Apolda/ Now...	Ethanol 96%	25000353	1
Laborchemie Apolda/ Now...	Ethanol 96%	25001954	1
Laborchemie Apolda/ Now...	Ethanol 96%	26000327	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Laborchemie Apolda/ Now…	Ethanol 96%	27000561	1
Laborchemie Apolda/ Now…	Ethanol 96%	27000675	1
Laborchemie Apolda/ San…	Ethanol 96%	22002231	1
Laborchemie Apolda/ San…	Ethanol 96%	27001625	1
Laborchemie Apolda/AHD	Ethanol 96%	25001980	1
Laborchemie Apolda/AHD	Ethanol 96%	26001268	1
Laborchemie Apolda/AHD	Ethanol 96%	27000934	1
Laborchemie Apolda/Alli…	Ethanol 96%	22001291	1
Laborchemie Apolda/Alli…	Ethanol 96%	22000392	1
Laborchemie Apolda/Alli…	Ethanol 96%	26000264	1
Laborchemie Apolda/Anzag	Ethanol 96%	25001980	1
Laborchemie Apolda/Gehe…	Ethanol 96%	25000305	1
Laborchemie Apolda/Gehe…	Ethanol 96%	26000283	1
Laborchemie Apolda/Gehe…	Ethanol 96%	27000531	1
Laborchemie apolda/gehe…	Ethanol 96%	27000743	1
Laborchemie Apolda/Gehe…	Ethanol 96%	26001268	1
Laborchemie Apolda/Gehe…	Ethanol 96%	27001078	1
Laborchemie Apolda/Gehe	Ethanol 96%	22000394	2
Laborchemie Apolda/Gehe	Ethanol 96%	23001357	1
Laborchemie Apolda/Gehe	Ethanol 96%	24002163	1
Laborchemie Apolda/Gehe	Ethanol 96%	24002263	1
Laborchemie Apolda/Gehe	Ethanol 96%	25001980	1
Laborchemie Apolda/Gehe	Ethanol 96%	26001268	1
Laborchemie Apolda/Gehe	Ethanol 96%	26001277	1
Laborchemie Apolda/Gehe	Ethanol 96%	27000531	1
Laborchemie Apolda/Gehe	Ethanol 96%	27000539	1
Laborchemie Apolda/Gehe	Ethanol 96%	27000604	1
Laborchemie Apolda/Gehe	Ethanol 96%	27000934	1
Laborchemie Apolda/Gehe	Ethanol 96%	27001084	1
Laborchemie Apolda/gehe	Ethanol 96%	28001615	1
Laborchemie Apolda/Gehe	Ethanol 96%	28001617	1
Laborchemie Apolda/Gehe	Ethanol 96%	29000858	1
Laborchemie Apolda/Greif	Ethanol 96%	27000934	1
Laborchemie Apolda/Jenn…	Ethanol 96%	12345	4
Laborchemie Apolda/Jenn…	Ethanol 96%	20002191	1
Laborchemie Apolda/Krie…	Ethanol 96%	25000305	1
Laborchemie Apolda/Noweda	Ethanol 96%	20000974	1
Laborchemie Apolda/Noweda	Ethanol 96%	22000086	1
Laborchemie Apolda/Noweda	Ethanol 96%	23000997	1
Laborchemie Apolda/Noweda	Ethanol 96%	24000102	1
Laborchemie Apolda/Noweda	Ethanol 96%	24001427	2
Laborchemie Apolda/Noweda	Ethanol 96%	24002163	1
Laborchemie Apolda/Noweda	Ethanol 96%	25000305	2
Laborchemie Apolda/Noweda	Ethanol 96%	25001139	1
Laborchemie Apolda/Noweda	Ethanol 96%	260002023	2
Laborchemie Apolda/Noweda	Ethanol 96%	26000285	2
Laborchemie Apolda/Noweda	Ethanol 96%	26001277	2
Laborchemie Apolda/Noweda	Ethanol 96%	26002023	1
Laborchemie Apolda/Noweda	Ethanol 96%	27000675	5
Laborchemie Apolda/Phoe…	Ethanol 96%	21001736	1
Laborchemie Apolda/Phoe…	Ethanol 96%	22001948	2
Laborchemie apolda/Phoe…	Ethanol 96%	23000997	1
Laborchemie Apolda/Phönix	Ethanol 96%	18181401	2
Laborchemie Apolda/Phönix	Ethanol 96%	21000152	1
Laborchemie Apolda/Phönix	Ethanol 96%	21002268	1
Laborchemie Apolda/Phönix	Ethanol 96%	22000392	1
Laborchemie Apolda/Phönix	Ethanol 96%	22001291	1
Laborchemie Apolda/Phönix	Ethanol 96%	23001368	1
LABORCHEMIE APOLDA/PHÖNIX	Ethanol 96%	23001968	1
Laborchemie Apolda/Phönix	Ethanol 96%	24000186	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Laborchemie Apolda/Phönix	Ethanol 96%	25000305	1
Laborchemie Apolda/Sana	Ethanol 96%	23000780	1
Laborchemie Apolda/Sana...	Ethanol 96%	22000999	1
Laborchemie Apolda/Sana...	Ethanol 96%	26000283	1
Laborchemie Apolda/Span...	Ethanol 96%	25000361	1
Laborchemie Apolda	Ethanol 96%	17041401	1
Laborchemie Apolda	Ethanol 96%	19001519	2
Laborchemie Apolda	Ethanol 96%	20000065	1
Laborchemie Apolda	Ethanol 96%	20000071	1
Laborchemie Apolda	Ethanol 96%	20001199	1
Laborchemie Apolda	Ethanol 96%	20001885	1
Laborchemie Apolda	Ethanol 96%	20001886	2
Laborchemie Apolda	Ethanol 96%	20002191	1
Laborchemie Apolda	Ethanol 96%	21000152	2
Laborchemie Apolda	Ethanol 96%	21000197	1
Laborchemie Apolda	Ethanol 96%	21001054	1
Laborchemie Apolda	Ethanol 96%	21002075	3
Laborchemie Apolda	Ethanol 96%	21002244	2
Laborchemie APOLDA	Ethanol 96%	21002269	1
Laborchemie Apolda	Ethanol 96%	22000394	1
Laborchemie Apolda	Ethanol 96%	22000616	1
Laborchemie Apolda	Ethanol 96%	22000999	1
Laborchemie Apolda	Ethanol 96%	22001385	1
Laborchemie Apolda	Ethanol 96%	22001720	1
Laborchemie Apolda	Ethanol 96%	23000188	1
Laborchemie APOLDA	Ethanol 96%	23000780	1
Laborchemie Apolda	Ethanol 96%	23000997	2
Laborchemie APOLDA	Ethanol 96%	23000998	1
Laborchemie Apolda	Ethanol 96%	23001368	1
Laborchemie Apolda	Ethanol 96%	23001785	1
Laborchemie Apolda	Ethanol 96%	23002116	1
Laborchemie Apolda	Ethanol 96%	24000161	2
Laborchemie Apolda	Ethanol 96%	24000186	4
Laborchemie Apolda	Ethanol 96%	24000188	1
Laborchemie Apolda	Ethanol 96%	24001427	2
Laborchemie Apolda	Ethanol 96%	24002163	3
Laborchemie Apolda	Ethanol 96%	24002259	1
Laborchemie Apolda	Ethanol 96%	25000305	3
Laborchemie Apolda	Ethanol 96%	25000361	1
Laborchemie APOLDA	Ethanol 96%	25000361	1
Laborchemie Apolda	Ethanol 96%	25001138	2
laborchemie apolda	Ethanol 96%	25001144	1
Laborchemie Apolda	Ethanol 96%	25001144	3
Laborchemie Apolda	Ethanol 96%	25001980	3
Laborchemie Apolda	Ethanol 96%	26000264	1
Laborchemie Apolda	Ethanol 96%	26000285	4
Laborchemie Apolda	Ethanol 96%	26000327	1
Laborchemie Apolda	Ethanol 96%	26001211	1
Laborchemie Apolda	Ethanol 96%	26001268	2
Laborchemie Apolda	Ethanol 96%	26001277	2
Laborchemie Apolda	Ethanol 96%	26002023	3
Laborchemie Apolda	Ethanol 96%	26002066	2
Laborchemie Apolda	Ethanol 96%	270000604	1
Laborchemie Apolda	Ethanol 96%	27000531	3
Laborchemie Apolda	Ethanol 96%	27000539	1
Laborchemie Apolda	Ethanol 96%	27000593	2
Laborchemie Apolda	Ethanol 96%	27000604	1
Laborchemie Apolda	Ethanol 96%	27000675	4
Laborchemie Apolda	Ethanol 96%	27000743	10
Laborchemie Apolda	Ethanol 96%	27001078	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Laborchemie Apolda	Ethanol 96%	27001084	1
Laborchemie Apolda	Ethanol 96%	27001625	1
Laborchemie Apolda	Ethanol 96%	2700743	1
Laborchemie Apolda	Ethanol 96%	28000790	3
Laborchemie Apolda	Ethanol 96%	2800791	1
Laborchemie ApoldaGmbH	Ethanol 96%	25001144	2
Laborchemie Apoldal, Sa...	Ethanol 96%	26002023	1
Laborchemie Apoldo GmbH	Ethanol 96%	22002231	1
Laborchemie Apolida Gmb...	Ethanol 96%	23001368	1
Laborchemie Apolida Gmb...	Ethanol 96%	24002163	1
Laborchemie heyl / Gehe	Ethanol 96%	24002163	1
Laborchemie heyl / Gehe	Ethanol 96%	25001144	2
Laborchemie Heyl Apolda...	Ethanol 96%	24000863	1
Laborchemie Heyl Apolda...	Ethanol 96%	26002023	1
Laborchemie Heyl/Noweda	Ethanol 96%	23001968	1
Laborchemie Heyl	Ethanol 96%	25001955	1
Laborchemie Heyl	Ethanol 96%	26000264	1
Laborchemie/ Phönix	Ethanol 96%	23000997	1
LABORCHEMIE/1	Ethanol 96%	25001955	1
Laborchemie/Gehe	Ethanol 96%	20000071	1
Laborchemie/Gehe	Ethanol 96%	20000305	3
Laborchemie/Gehe	Ethanol 96%	22000603	3
LABORCHEMIE/Gehe	Ethanol 96%	23000750	1
Laborchemie/Gehe	Ethanol 96%	23001368	1
LABORCHEMIE/Gehe	Ethanol 96%	24000163	1
LABORCHEMIE/Gehe	Ethanol 96%	24000856	1
Laborchemie/Gehe	Ethanol 96%	24000920	2
Laborchemie/Gehe	Ethanol 96%	24001427	1
Laborchemie/Gehe	Ethanol 96%	25000305	3
Laborchemie/Gehe	Ethanol 96%	26000283	1
Laborchemie/Gehe	Ethanol 96%	26000285	2
Laborchemie/Noweda	Ethanol 96%	19001836	1
Laborchemie/Noweda	Ethanol 96%	22000161	1
LaborChemie/Noweda	Ethanol 96%	23000997	1
Laborchemie/Noweda	Ethanol 96%	24000034	1
Laborchemie/Noweda	Ethanol 96%	24000186	1
Laborchemie/Noweda	Ethanol 96%	24000187	1
Laborchemie/Noweda	Ethanol 96%	24000856	1
Laborchemie/Noweda	Ethanol 96%	25001980	1
Laborchemie/Noweda	Ethanol 96%	27000675	1
Laborchemie/Sanacorp	Ethanol 96%	22000616	1
Laborchemie/Sanacorp	Ethanol 96%	25000305	1
Laborchemie/Sanacorp	Ethanol 96%	25001144	1
Laborchemie/Sanacorp	Ethanol 96%	26000285	1
Laborchemie/Sanacorp	Ethanol 96%	27001084	1
Laborchemie	Ethanol 96%		1
Laborchemie	Ethanol 96%	21000152	1
Laborchemie	Ethanol 96%	21002244	1
Laborchemie	Ethanol 96%	22001717	1
Laborchemie	Ethanol 96%	24000856	1
Laborchemie	Ethanol 96%	25000305	1
laborchemie	Ethanol 96%	26001277	1
Laborchemie	Ethanol 96%	27000531	1
Laborchemie	Ethanol 96%	27000675	1
Laborchemie	Ethanol 96%	28001617	1
laborchemie	Ethanol 96%	2x26001268	1
LaborchemieApolda GmbH/...	Ethanol 96%	20000306	1
LaborchemieApolda GmbH/...	Ethanol 96%	19002422	1
LaborchemieApolda GmbH/...	Ethanol 96%	23001357	1
LaborchemieApolda GmbH/...	Ethanol 96%	25000361	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
LaborchemieApolda GmbH/...	Ethanol 96%	25001955	1
LaborchemieApolda/Phönix	Ethanol 96%	21000152	1
LaborchemieApolda/Sanac...	Ethanol 96%	21001053	1
Lamotte/PX	Ethanol 96%	200201121	1
Larborchemie Apolda GMBH	Ethanol 96%	23002116	1
Lautergold/Lauter-Berns...	Ethanol 96%	35110	1
Löwen-Brennerei-GmbH	Ethanol 96%	Corona	1
Löwen-Brennerei-GmbH	Ethanol 96%	E25/20-18001	3
Martin und Werner Mundo...	Ethanol 96%	1410T31150921	1
Martin und Werner Mundo...	Ethanol 96%	1410T31171114	1
Martinus Apotheke	Ethanol 96%	E-040420-1	1
Merck	Ethanol 96%		1
Merck	Ethanol 96%	1009711000	1
Merck	Ethanol 96%	1075571009	2
Merck	Ethanol 96%	137K16157910	1
Merck	Ethanol 96%	45056971	1
Merck	Ethanol 96%	I0994871912	1
Merck	Ethanol 96%	I1054067	2
Merck	Ethanol 96%	I1124971	2
Merck	Ethanol 96%	I1127467	1
Merck	Ethanol 96%	I1127467106	1
Merck	Ethanol 96%	I1127471	1
Merck	Ethanol 96%	I1145171	2
Merck	Ethanol 96%	I1162971	1
Merck	Ethanol 96%	I1186071	2
Merck	Ethanol 96%	Index-No603-002-00-5	1
Merck	Ethanol 96%	K43729871232	3
Merck	Ethanol 96%	K44538471324	1
Merck	Ethanol 96%	K45475971	1
Merck	Ethanol 96%	K45475971416	3
Merck	Ethanol 96%	K46405471507	2
Merck	Ethanol 96%	K47002671535	1
Merck	Ethanol 96%	k47190371548	1
Merck	Ethanol 96%	K48293171636	1
Merck	Ethanol 96%	l0994871912	1
Merck	Ethanol 96%	l1054071944	1
Miller Alkoholvertrieb ...	Ethanol 96%	20982018/05122017	1
Miller Alkoholvertrieb ...	Ethanol 96%	410-103-150508/26052	1
Miller	Ethanol 96%	1413040904/16042013	1
Miller	Ethanol 96%	Juni2017	1
Monopolstelle Jenne	Ethanol 96%	J150114	1
Movera GmbH	Ethanol 96%	9972161	1
Movera GmbH	Ethanol 96%	9972601	1
Mundo OHG/ Röntgen	Ethanol 96%	1410T31310719	1
Mundo oHG/AH	Ethanol 96%	1410T31010719	1
Mundo oHG/AH	Ethanol 96%	1410T31040417	1
Mundo OHG	Ethanol 96%		1
Mundo OHG	Ethanol 96%	1410T31010420	1
Mundo OHG	Ethanol 96%	1410T31041219	1
Mundo OHG	Ethanol 96%	1410T31060513	1
Mundo OHG	Ethanol 96%	1410T31060514	1
Mundo OHG	Ethanol 96%	1410T31061218	1
Mundo OHG	Ethanol 96%	1410T31090617	1
Mundo OHG	Ethanol 96%	1410T31120813	1
Mundo OHG	Ethanol 96%	1410T31141015	1
Mundo OHG	Ethanol 96%	1410T31160316	1
Mundo OHG	Ethanol 96%	1410T31191113	1
Mundo OHG	Ethanol 96%	1410T31241018	1
Mundo OHG	Ethanol 96%	1410T31260716	1
Mundo OHG	Ethanol 96%	1410T31281216	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Mundo OHG	Ethanol 96%	1410T31291020	1
Mundo/AHD	Ethanol 96%	1410T31030516	1
Mundo/AHD	Ethanol 96%	1410T31070815	1
Mundo	Ethanol 96%		1
Mundo	Ethanol 96%	1410T31150615	1
Mundo	Ethanol 96%	20142	1
mundoOHG	Ethanol 96%	1410T31260218	1
Nachgeprüft Karl-Josef	Ethanol 96%	818N03041	1
NACHPRÜFUNG ...	Ethanol 96%		1
NACHPRÜFUNG Charge 2210...	Ethanol 96%		1
Nordbrand Nordhausen GmbH	Ethanol 96%		7
Nordbrand Nordhausen GmbH	Ethanol 96%	200914-1	1
Nordbrand Nordhausen	Ethanol 96%		2
Nordbrand Nordhausen	Ethanol 96%	30420	1
Nordbrand Nordhausen	Ethanol 96%	UN1170	2
Nordhausen	Ethanol 96%	B32/26052020	2
Nordhausen	Ethanol 96%	B32/27072020	1
Nordhäuser	Ethanol 96%	200404-1	1
Noweda / Aploda	Ethanol 96%	21000197	1
Noweda / Apolda	Ethanol 96%	20000974	1
Noweda 04.08.15	Ethanol 96%	22000616	1
Noweda/Heyl	Ethanol 96%	25001144	1
Noweda/Labochemie	Ethanol 96%	20001566	1
Noweda/Laborchem. Apolda	Ethanol 96%	23001055	4
Noweda/laborchemie Apolda	Ethanol 96%	21002237	1
Noweda	Ethanol 96%	1202124	2
Noweda	Ethanol 96%	19000643001	1
Noweda	Ethanol 96%	19000663	1
Noweda	Ethanol 96%	19001935	1
Noweda	Ethanol 96%	19002422	1
Noweda	Ethanol 96%	19030201	1
Noweda	Ethanol 96%	19129501	1
Noweda	Ethanol 96%	20002439001	1
Noweda	Ethanol 96%	21000197	1
Noweda	Ethanol 96%	24000856	1
Noweda	Ethanol 96%	25000305	2
Noweda	Ethanol 96%	26002023	1
Noweda	Ethanol 96%	30032021	1
Noweda	Ethanol 96%	N781706124	3
Otto Fischar GmbH & Co KG	Ethanol 96%	7150032	1
Overlack	Ethanol 96%	1089417	1
Phoenix Goettin	Ethanol 96%	21002269	1
Phoenix/ Laborchemie Ap...	Ethanol 96%	25000305	1
Phoenix/Labochemie APOLDA	Ethanol 96%	26001268	1
Phoenix/Laborchemie APO...	Ethanol 96%	23000188	1
Phoenix/Spinnrad	Ethanol 96%	219310121	1
Phoenix	Ethanol 96%	19000643001	1
Phoenix	Ethanol 96%	19030201	2
Phoenix	Ethanol 96%	19129502	2
Phoenix	Ethanol 96%	200000973	1
Phoenix	Ethanol 96%	21001561	1
Phoenix	Ethanol 96%	3204	2
Phönix / Heyl	Ethanol 96%	24000856	1
Phönix 06.2.15	Ethanol 96%	21002075	1
Phönix, Caesar&Loretz G...	Ethanol 96%	19000643001	1
Phönix/ Apolda	Ethanol 96%	24001427	1
Phönix/ Laborchemie	Ethanol 96%	24002163	2
Phönix/Apolda	Ethanol 96%	24000856	2
Phönix/berkel	Ethanol 96%	130208	1
Phönix/Cealo	Ethanol 96%	18181401	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix/Heyl	Ethanol 96%	23001368	2
Phönix/Heyl	Ethanol 96%	24000863	1
Phönix	Ethanol 96%	18122017/25112016	1
Phönix	Ethanol 96%	18181402	1
Phönix	Ethanol 96%	18191701	2
Phönix	Ethanol 96%	18191702	2
Phönix	Ethanol 96%	20001378001	1
Phönix	Ethanol 96%	20003544001	2
Phönix	Ethanol 96%	21001403003	1
Phönix	Ethanol 96%	24002163	1
Phönix	Ethanol 96%	26000285	1
Post-Apotheke	Ethanol 96%	111a-02304	1
prima Sprit	Ethanol 96%		1
PVL	Ethanol 96%	1204131	1
Retest	Ethanol 96%	2005786	1
Rondell Apotheke	Ethanol 96%	410040216085	1
Röntgen	Ethanol 96%	1410T31010420	1
Röntgen	Ethanol 96%	1410T31120718	1
Röntgen	Ethanol 96%	22000101001	1
Röntgen	Ethanol 96%	27001084	1
Rum Albrecht-Bad Bevensen	Ethanol 96%		1
Sana/Laborchemie	Ethanol 96%	260000283	1
Sanacop	Ethanol 96%	23000780	1
Sanacorp/ Laborchemie A...	Ethanol 96%	24002163	1
Sanacorp	Ethanol 96%		1
Sanacorp	Ethanol 96%	20001574	1
Sanacorp	Ethanol 96%	20001830	1
Sanacorp	Ethanol 96%	21001560	2
Sanacorp	Ethanol 96%	21002268	1
Sanacorp	Ethanol 96%	21002758001	1
Sanacorp	Ethanol 96%	24001427	1
Sanacorp	Ethanol 96%	25001138	1
Sanacorp	Ethanol 96%	25001980	1
Sanacorp	Ethanol 96%	27000675	1
Sanacorp	Ethanol 96%	97612016	2
sanacorp	Ethanol 96%	K40787471	1
SAV LP	Ethanol 96%	601826	1
Schlitzer Destillerie	Ethanol 96%	1430T34090817	1
Schmittmann Gmbh	Ethanol 96%	20130105	1
Schmittmann GmbH	Ethanol 96%	20140100	1
Schmittmann Gmbh	Ethanol 96%	20160426	1
Schmittmann GmbH	Ethanol 96%	2041503	1
Schmittmann/Hoffmann	Ethanol 96%	20020112-1	1
Schmittmann	Ethanol 96%	20150108	1
Senge& Butz GmbH WE: 0...	Ethanol 96%	41209	1
Sonnen-Apotheke Wefensl...	Ethanol 96%		1
Sonnen-Apotheke Wefensl...	Ethanol 96%	VE42671-1530	1
Sonnenberg/Zentrum	Ethanol 96%	4711E-03041	1
Sophien AM/ Karl-Josef ...	Ethanol 96%	410040121138	5
Sophien Arzneimittel GmbH	Ethanol 96%	410240921145	1
Sophien Arzneimittel	Ethanol 96%	410120320128	1
sophien arzneimittel	Ethanol 96%	410191018111	1
Sophien-AM / K.J.Kost	Ethanol 96%	410041115082	1
Sophien-AM/ Kost	Ethanol 96%	410060120125	1
Sophien-AM/ Kost	Ethanol 96%	410070119113	1
Sophien-AM/ Kost	Ethanol 96%	410071019122	2
Sophien-AM/ Kost	Ethanol 96%	41011041916	1
Sophien-AM/ Kost	Ethanol 96%	410150420131	1
Sophien-AM/ Kost	Ethanol 96%	410160719119	1
Sophien-AM/ Kost	Ethanol 96%	410170820136	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sophien-AM/ Kost	Ethanol 96%	410191018111	1
Sophien-AM/ Kost	Ethanol 96%	410251119124	1
Sophien-AM/ Kost	Ethanol 96%	410310120126	1
Sophien-Arzneimiitel Gm...	Ethanol 96%	410090721143	1
Sophien-Arzneimiitel Gm...	Ethanol 96%	410090720134	1
Sophien-Arzneimittel GmbH	Ethanol 96%	410261017101	1
Sophien-Arzneimittel Kost	Ethanol 96%	410090617097	1
Spangro/Laborchemie Apo...	Ethanol 96%	20001583	1
Spangropharm	Ethanol 96%	1410T31041016	1
Spezial.brennerei Behle...	Ethanol 96%	Sorte410	1
Spinnrad/Gehe	Ethanol 96%	919310072	1
Spinnrad/Noweda	Ethanol 96%	1017310073	1
Spinnrad	Ethanol 96%	1017310124	1
Spinnrad	Ethanol 96%	317310072	1
Spinnrad	Ethanol 96%	713310072	1
spinnrad	Ethanol 96%	815310072	1
steuerfreier Alkohol	Ethanol 96%	19032020	1
Sünner/Sünner	Ethanol 96%	31032020-01	1
Taoasis/K	Ethanol 96%	VE30892-112552	1
Taoasis	Ethanol 96%	122428	1
Taoasis	Ethanol 96%	VE36425-122428	1
TAOASIS	Ethanol 96%	VE39261-125696	1
Taoasis	Ethanol 96%	VE40497-128163	2
Taoasis	Ethanol 96%	VE42394-1530	1
Taosis / G	Ethanol 96%	VE31397-114015	1
TC284_011018/Berkel	Ethanol 96%	1410T31091018	1
Tereos 20131470D	Ethanol 96%	1410T31040613	1
Tereos, Origny/ Berkel ...	Ethanol 96%	19/12/11-1	1
Tereos, Origny/ Berkel ...	Ethanol 96%	20/03/27	1
Tereos,Origny/ Kassner&...	Ethanol 96%	17/02/08	1
Tereos/ Berkel AHK Alko...	Ethanol 96%	90119/018	1
Tereos/Berkel AHK	Ethanol 96%	101017/884	1
Tereos/BERKEL AHK	Ethanol 96%	1410T31060717	1
Tereos/Berkel AHK	Ethanol 96%	1410T31140217	1
Tereos/Berkel AHK	Ethanol 96%	1410T31151117	1
Tereos/BERKEL AHK	Ethanol 96%	1410T31291117	1
Tereos/Berkel AHK	Ethanol 96%	31115/705	1
Th. Geyer	Ethanol 96%	I1075571009	1
The Duke Destillerie	Ethanol 96%	LN20/ELU01	1
T-o-f / Walter CMP	Ethanol 96%	41119/505/062	1
VDL	Ethanol 96%	K43005871151	1
VWR	Ethanol 96%	16E034127	1
VWR	Ethanol 96%	I0962467	2
W. Hoffmann/Noweda	Ethanol 96%	20120106	1
Walter CMP GmbH	Ethanol 96%	40320	1
Walter CMP GmbH	Ethanol 96%	40320/504/056	3
Walter CMP	Ethanol 96%	1809-013	1
Walter CMP	Ethanol 96%	200320-505-066	1
Walter CMP	Ethanol 96%	40320/504/056	1
Walter CMP	Ethanol 96%	41119/505/062	1
Walter-CMP + Co. KG	Ethanol 96%	200320/505/066	1
Walter-CMP + Co. KG	Ethanol 96%	40320/504/056	1
WalterCMP GmBH und CO.KG	Ethanol 96%	120419/505/047	2
Walter-CMP GmbH&Co.KG ...	Ethanol 96%	200320/505/066	1
Walter-CMP/direkt 12.10...	Ethanol 96%		1
Walter-CMP/direkt 12.10...	Ethanol 96%	150720/505/070	1
WalterCMP	Ethanol 96%	150720/505/070	1
Walter-CMP	Ethanol 96%	200320-505-066	2
Weinhaus SChenk	Ethanol 96%	18032020	1
wepa	Ethanol 96%	1820462779	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Werner Hoffmann	Ethanol 96%		1
Werner Hoffmann	Ethanol 96%	20130033	1
Werner Hoffmann	Ethanol 96%	7081503	1
Werner Hoffmann	Ethanol 96%	VE49528	1
Werner Hofmann / Schmit...	Ethanol 96%	19/10/10	1
Werner Hofmann / Schmit...	Ethanol 96%	41019/02/20	1
Werner Hofmann, Vertrie...	Ethanol 96%	Corona02024030	1
Werner Hofmann/Werner H...	Ethanol 96%	20150278	1
Werner Hofmann/Werner H...	Ethanol 96%	21/06/10	1
Werner Hofmann	Ethanol 96%	111111	1
Werner Hofmann	Ethanol 96%	15071707	1
Werner Hofmann	Ethanol 96%	17/09/07-1	2
Werner Hofmann	Ethanol 96%	18/02/09	1
Werner Hofmann	Ethanol 96%	18/09/26-1	2
Werner Hofmann	Ethanol 96%	19/10/10	1
Werner Hofmann	Ethanol 96%	20/03/27	1
Werner Hofmann	Ethanol 96%	20/10/19	1
Werner Hofmann	Ethanol 96%	20120106	1
Werner Hofmann	Ethanol 96%	20150278	1
Werner Hofmann	Ethanol 96%	20170160	2
Werner Hofmann	Ethanol 96%	29061804	1
Werner Hofmann	Ethanol 96%	30091302	1
Werner Hofmann	Ethanol 96%	5031809	1
Werner Hofmann	Ethanol 96%	5121821	1
Werner Hofmann	Ethanol 96%	8021304	1
Wilhelm-Apotheke	Ethanol 96%	80318/E	1
Wittenberger Destillati...	Ethanol 96%	300320WDG	1
xxx	Ethanol 96%		2

- 295 208 spectra from 1324 *Apo-Ident* customers from a total of 52 135 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Ethanol 96%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Ethanol 96%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	220	0	68 279
Type B	0	80	0	111 233
Type C	0	2237	13	295 172

The substance/substance group *Ethanol 96%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.2727 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6865 %)	99.4222 % (> 99.2889 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Ethanol 96%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Coal tar spirit SR	20.25	–
Dexpanthenol	53.45	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Ethanol 96%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31488	31488	0.00	54.85
33852	34457	3.93	52.55
34330	34330	0.00	53.12
34457	34457	0.00	52.61
36390	31488	4.37	58.13

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Ether**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31651-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Ether; Aether

Special notes

When selecting the *Ether* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Ether	4	3	169

Second-stage model

For differentiation of the substance/substance group *Ether* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Ether*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Hedinger	Ether	052159	31854	60	9337
Hedinger	Ether	052161	33214	40	20160621
Otto Fischar	Ether	5975088	31855	60	20150817
Otto Fischar	Ether	5977054	33633	40	20170524

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 200 spectra of 4 reference samples from the substance/substance group *Ether*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 299 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Ether*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Hedinger	Ether	052162	34122	40
Hedinger	Ether	052166	35261	40
Otto Fischar	Ether	5971044	35854	50

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 489 spectra from 208 *Apo-Ident* customers from 171 batches from the substance/substance group *Ether*.
- Among them are spectra of independent samples from 169 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
0tto Fischer GmbH & Co....	Ether	5978012	1
Aallianc. Healthc. / Fi...	Ether	5798015	1
AH/Fischar	Ether	5976061	1
Allance/Fischar	Ether	5971044	2
Allianc. Health. / Otto...	Ether	597606B	1
Alliance Healthcare/Anzag	Ether	597806A	1
Alliance Healthcare/Anzag	Ether	597806B	1
Alliance Healthcare/Fis...	Ether	5973065	1
Alliance Healthcare/Fis...	Ether	597401A	1
Alliance/Otto Fischar	Ether	5970071	1
Apoth. Dr. Petra Huener...	Ether	52165	2
Caelo	Ether	28051304	1
Caelo	Ether	52156	1
Caelo	Ether	52161	1
Caelo	Ether	52163	2
Caelo	Ether	5973014	1
Caelo	Ether	597306B	1
Caelo	Ether	5974015	1
Caelo	Ether	5974058	1
Caelo	Ether	5976063	1
Caelo	Ether	5976064	1
Caelo	Ether	597606B	2
Caelo	Ether	5977016	5
Caelo	Ether	5977057	1
Caelo	Ether	5978017	1
Caelo	Ether	5979031	1
Chiesi	Ether	5978016	1
E+J, 28.09.2016	Ether	597601C	1
Ebert & Jacobi	Ether	5978067	1
Euro OTC	Ether	52163	1
Fagron	Ether	5977055	2
Fiebig	Ether	52163	1
Fisch./Anzag	Ether	5978018	1
Fisch./Gehe	Ether	5970016	1
Fisch./Gehe	Ether	597903C	1
Fischar / Alliance Heal...	Ether	5970012	5
Fischar / Alliance Heal...	Ether	5970017	2
Fischar / Alliance Heal...	Ether	597001C	4
Fischar / Alliance Heal...	Ether	5970078	4
Fischar / Alliance Heal...	Ether	5971049	6
Fischar / Alliance Heal...	Ether	5975011	1
Fischar / Alliance Heal...	Ether	5976067	3
Fischar / Alliance Heal...	Ether	597801C	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar / Alliance Heal...	Ether	5978061	6
Fischar / Alliance Heal...	Ether	5979034	6
Fischar / Alliance Heal...	Ether	597903A	1
Fischar / Alliance Heal...	Ether	97001C5	2
Fischar / Anzag	Ether	5978065	2
Fischar / Gehe	Ether	5976063	1
Fischar / Gehe	Ether	5977018	1
Fischar / Kehr	Ether	5970072	1
Fischar / Kehr	Ether	597606B	2
Fischar / Noweda / EK 1...	Ether	597903A	1
Fischar / Phoenix	Ether	5971046	1
Fischar /Gehe	Ether	5978016	1
fischar /noweda	Ether	5978017	1
Fischar /Zentrum-Apotheke	Ether	5974013	1
Fischar 001	Ether	597204B	1
Fischar Anzag	Ether	85(5978015)	1
Fischar Anzag	Ether	86(5978066)	1
Fischar Anzag	Ether	89(5979031)	1
Fischar Anzag	Ether	94(597001A)	1
Fischar Anzag	Ether	96(5970075)	1
Fischar Sanacorp	Ether	5970019	1
fischar über Phönix	Ether	5979032	1
FISCHAR,OTTO GMBH	Ether	5979032	1
Fischar/ NOWEDA	Ether	5978069	1
Fischar/ Alliance Healt...	Ether	5977051	6
fischar/ alliance	Ether	5970079	6
Fischar/ Anzag	Ether	220127(597007C)	1
Fischar/ Anzag	Ether	5970016	1
Fischar/ Anzag	Ether	5970071	1
fischar/ Anzag	Ether	597903C	1
Fischar/ Anzag	Ether	87(5978066)	1
Fischar/ Anzag	Ether	88(5979036)	1
Fischar/ Anzag	Ether	97(5970078)	1
Fischar/ Gehe	Ether	5970016	1
Fischar/ GEHE	Ether	5970071	1
Fischar/ GEHE	Ether	597903C	1
Fischar/ Jenne	Ether	95(5979035)	1
Fischar/ Now	Ether	597301C	1
Fischar/ Now	Ether	597306C	1
Fischar/ Now	Ether	5977054	1
Fischar/ Noweda	Ether	5977054	1
Fischar/ Noweda	Ether	5978066	1
Fischar/AEP	Ether	5979032	1
Fischar/AHD	Ether	5970016	1
Fischar/AHD	Ether	83(5977053)	1
Fischar/AHD	Ether	84(5978012)	1
Fischar/Allia	Ether	5979031	1
Fischar/Alliance Health...	Ether	5978066	1
Fischar/Alliance	Ether	5978015	4
Fischar/Alliance	Ether	597903C	2
Fischar/Anzag	Ether	5973063	1
Fischar/Anzag	Ether	597903A	1
Fischar/Fiebig 05.10.2019	Ether	5979031	1
Fischar/Fiebig 25.09.2020	Ether	5970016	1
Fischar/Fiebig 29.06.2021	Ether	5970077	1
Fischar/Fiebig	Ether	5976062	2
Fischar/Gehe	Ether	5970071	1
Fischar/Gehe	Ether	5970072	3
Fischar/Gehe	Ether	5970077	2
Fischar/Gehe	Ether	5971045	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar/Gehe	Ether	5973018	1
Fischar/Gehe	Ether	597405A	1
Fischar/GEHE	Ether	5977051	1
Fischar/GEHE	Ether	5978017	2
Fischar/Jenne	Ether	5978013	1
Fischar/Jenne	Ether	5978017	1
Fischar/Jenne	Ether	5978062	1
fischar/jenne	Ether	5979031	1
Fischar/Jenne	Ether	AP210401-01	1
Fischar/Kehr	Ether	597104A	1
Fischar/Kehr	Ether	5977055	1
Fischar/Kehr	Ether	5978015	1
Fischar/Kehr	Ether	5979031	1
Fischar/Kehr	Ether	5979032	2
Fischar/Kehr	Ether	597903B	1
Fischar/Krieger	Ether	597903C	1
Fischar/Noweda , EK 14,41	Ether	5979033	1
Fischar/Noweda	Ether	5973019	1
Fischar/Noweda	Ether	5976019	1
Fischar/Noweda	Ether	5978014	1
Fischar/Noweda	Ether	5978018	1
Fischar/Noweda	Ether	5978066	1
Fischar/Noweda	Ether	597806C	1
Fischar/Noweda	Ether	59790079	1
FISCHAR/Noweda	Ether	597903A	1
Fischar/Noweda	Ether	597903B	1
Fischar/Phoenix	Ether	5970071	2
Fischar/Phoenix	Ether	5974014	1
Fischar/Phoenix	Ether	5974058	1
Fischar/Phoenix	Ether	5979032	1
fischar/Phoenix	Ether	597903C	1
Fischar/Phönix	Ether	5973064	1
Fischar/Phönix	Ether	5978018	1
Fischar/Sanacorp	Ether	5970076	1
Fischar/Sanacorp	Ether	5972042	1
Fischar/Sanacorp	Ether	5973066	1
Fischar/Sanacorp	Ether	597606	1
Fischar/Sanacorp	Ether	597606B	1
Fischar/Sanacorp	Ether	5977018	1
Fischar/Sanacorp	Ether	5977054	1
Fischar/Sanacorp	Ether	5977055	1
Fischar/Sanacorp	Ether	5977056	3
Fischar/Sanacorp	Ether	5978014	2
Fischar/Sanacorp	Ether	5978016	1
Fischar/Sanacorp	Ether	5978017	1
Fischar/Sanacorp	Ether	597801C	1
Fischar/Sanacorp	Ether	5979032	1
Fischar/Sanacorp	Ether	5979035	6
Fischar/XX	Ether	597001B	1
Fischar	Ether	52157	1
Fischar	Ether	5970017	1
Fischar	Ether	597036	1
Fischar	Ether	5971081	1
Fischar	Ether	5972082	1
fischar	Ether	5972083	1
Fischar	Ether	5972089	1
Fischar	Ether	597208C	1
Fischar	Ether	5973013	1
Fischar	Ether	5973063	1
Fischar	Ether	5973065	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar	Ether	5973067	1
Fischar	Ether	5973069	1
Fischar	Ether	5974013	1
Fischar	Ether	597401A	1
Fischar	Ether	597401C	1
Fischar	Ether	5974051	1
Fischar	Ether	5974059	2
fischar	Ether	5975012	1
fischar	Ether	5976016	1
fischar	Ether	597601C	1
Fischar	Ether	597601C	1
Fischar	Ether	597606A	1
Fischar	Ether	597606B	1
fischar	Ether	5977056	1
Fischar	Ether	5977057	1
Fischar	Ether	5977058	1
Fischar	Ether	5977059	2
fischar	Ether	5978013	1
Fischar	Ether	5978015	1
Fischar	Ether	5978017	1
Fischar	Ether	5978018	2
Fischar	Ether	5978019	2
Fischar	Ether	5978066	1
Fischar	Ether	597806C	1
Fischar	Ether	5979032	1
fischar	Ether	5979036	1
Fischar	Ether	597903B	3
Fischar	Ether	597903C	1
Fischar	Ether	90207/2	1
Fischbar / Gehe	Ether	597903C	1
Fischbar	Ether	597701B	1
FISCHER GMBH / GEHE	Ether	5974051	1
Fischer Saarbrücken/GEHE	Ether	5972047	1
Fischer/ Sanacorp	Ether	5977056	1
Fischer/AEP	Ether	5976061	1
Fischer/Gehe	Ether	5977057	1
Fischer/Jenne	Ether	5670079	1
Fischer/Jenne	Ether	5978064	1
fischer/Kehr	Ether	5977058	1
Fischer/Phönix	Ether	597606b	1
Fischer	Ether	597001A	1
Fischer	Ether	5971044	1
Fischer	Ether	5973066	1
Fischer	Ether	597306A	1
Fischer	Ether	597606B	1
fischer	Ether	5977058	1
Fischer	Ether	5978017	1
fischer	Ether	597801C	1
fISHA Noweda	Ether	5977054	1
fishar/ Sanacorp	Ether	5977054	2
Gehe /Hedinger	Ether	52163	1
GEHE 06.09.2019	Ether	5979031	1
Gehe/ Fischar	Ether	5977057	1
Gehe/Fischar	Ether	597301	2
Gehe	Ether	5972082	1
gepepharm GmbH	Ether	52155	1
Hebinger	Ether	52153	2
Hedinger / Gehe	Ether	52163	2
Hedinger / Gehe	Ether	52165	1
Hedinger / Gehe	Ether	52166	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger / Gehe	Ether	52167	1
Hedinger / Noweda	Ether	52156	4
Hedinger, Stuttgart / P...	Ether	52164	1
Hedinger, Stuttgart / S...	Ether	52166	1
Hedinger, Stuttgart	Ether	52165	1
Hedinger/ VDL	Ether	52162	2
Hedinger/ VDL	Ether	52163	2
Hedinger/4	Ether	52163	1
Hedinger/AHD	Ether	52163	1
Hedinger/AHD	Ether	52165	1
Hedinger/Alliance	Ether	52163	1
Hedinger/Alliance	Ether	52165	1
hedinger/anzag	Ether	52153	2
Hedinger/Anzag	Ether	52161	1
Hedinger/Anzag	Ether	52163	1
Hedinger/Anzag	Ether	52165	1
Hedinger/Gehe/28.10.20	Ether	52164	1
Hedinger/Gehe	Ether	52153	1
Hedinger/Gehe	Ether	52156	2
Hedinger/Gehe	Ether	52157	1
Hedinger/Gehe	Ether	52162	1
hedinger/gehe	Ether	52163	1
Hedinger/Gehe	Ether	52164	2
Hedinger/Jenne	Ether	52165	1
Hedinger/Kehr	Ether	52157	1
Hedinger/Noweda	Ether	52153	1
Hedinger/Noweda	Ether	52157	3
Hedinger/Noweda	Ether	52161	2
Hedinger/Noweda	Ether	52162	3
Hedinger/Noweda	Ether	52163	1
HEDINGER/NOWEDA	Ether	52165	1
HEDINGER/NOWEDA	Ether	52166	1
HEDINGER/NOWEDA	Ether	52167	1
HEDINGER/NOWEDA	Ether	5978062	1
Hedinger/Phönix	Ether	52162	1
Hedinger/Phönix	Ether	52166	1
Hedinger/Sanacorp	Ether	12114902	1
Hedinger/Sanacorp	Ether	52164	1
Hedinger/V.d.L.	Ether	52153	1
Hedinger	Ether	13011812	1
Hedinger	Ether	14070804	1
Hedinger	Ether	21071803	1
Hedinger	Ether	30011406	1
Hedinger	Ether	5121813	1
Hedinger	Ether	52152	1
Hedinger	Ether	52153	4
Hedinger	Ether	52155	1
Hedinger	Ether	52156	1
Hedinger	Ether	52157	1
Hedinger	Ether	52161	2
Hedinger	Ether	52163	7
Hedinger	Ether	52164	2
Hedinger	Ether	52165	6
Hedinger	Ether	52166	1
Hedinger	Ether	52169	3
Heninger	Ether	52162	3
Herdinger	Ether	52162	1
Ichthyol/Phönix	Ether	5978017	1
Ichthyol-Gesellschaft	Ether	5976011	1
Kehr/Fischar	Ether	5977052	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
L12/Hedinger	Ether	52161	1
noveda/fischar	Ether	5974056	1
noweda/ Otto Fischar	Ether	5976066	1
Noweda/apoident	Ether	52164	1
Noweda/Fischar	Ether	5970013	1
Noweda/Hedinger	Ether	52163	1
Noweda/Hedinger	Ether	52164	1
Noweda	Ether	52162	1
Noweda	Ether	52163	3
Noweda	Ether	52164	1
Noweda	Ether	5971381	1
Noweda	Ether	5977058	1
noweda	Ether	597801C	1
noweda-Fischar	Ether	5978066	1
Otto Fischar / Anzag	Ether	5978067	1
Otto Fischar / Noweda	Ether	77016	1
Otto Fischar / Sanacorp	Ether	5975015	1
Otto Fischar /Noweda	Ether	5976065	2
Otto Fischar GmbH & Co ...	Ether	5970015	2
Otto Fischar GmbH & Co....	Ether	5970078	1
Otto Fischar GmbH & Co....	Ether	5974102	2
Otto Fischar GmbH & Co....	Ether	5976065	1
Otto Fischar GmbH & Co....	Ether	5977016	1
Otto Fischar GmbH & Co....	Ether	5977055	1
Otto Fischar GmbH & Co.KG	Ether	5977017	1
Otto Fischar GmbH &Co. KG	Ether	5977057	1
Otto Fischar GmbH& Co.KG	Ether	5972049	1
Otto Fischar GmbH& Co.KG	Ether	597204C	1
Otto Fischar GmbH&Co. KG	Ether	5971046	1
Otto Fischar GmbH	Ether	5972045	1
Otto Fischar GmbH	Ether	5972048	1
Otto Fischar GmbH	Ether	597208	1
Otto Fischar GmbH	Ether	5972082	1
Otto Fischar Gmbh	Ether	5972088	1
Otto Fischar Gmbh	Ether	5972089	1
Otto Fischar GmbH	Ether	597301B	1
Otto Fischar GmbH	Ether	5979032	1
Otto Fischar über Noweda	Ether	597903B	2
Otto Fischar/ AEP	Ether	5970072	1
Otto Fischar/ Anzag	Ether	5977017	1
Otto Fischar/ Gehe	Ether	5971044	1
Otto Fischar/ Noweda	Ether	597903B	1
Otto Fischar/AHD	Ether	5978014	1
Otto Fischar/GEHE	Ether	597301B/311152/2	1
Otto Fischar/Gehe	Ether	5977059	1
Otto Fischar/Gehe	Ether	597705B	1
otto fischar/Sana	Ether	597401B	1
Otto Fischar/Sanacorp	Ether	597301A	1
Otto Fischar/Sanacorp	Ether	5974104	1
Otto Fischar/Sanacorp	Ether	5977054	1
Otto Fischar	Ether	5970015	1
Otto Fischar	Ether	5970019	1
Otto Fischar	Ether	5975013	1
Otto Fischar	Ether	5975089	1
Otto Fischar	Ether	5976019	1
Otto Fischar	Ether	597606B	1
otto fischar	Ether	5978016	1
Otto Fischer /Anzag	Ether	5979032	1
Otto Fischer /Anzag	Ether	5979036	2
Otto Fischer /Noweda	Ether	5977018	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Otto Fischer GmbH & Co....	Ether	5978067	1
Otto Fischer GmbH	Ether	5976069	1
Otto Fischer GmbH	Ether	597606B	1
Otto Fischer/ Kehr	Ether	5976062	1
Otto Fischer/Anzag	Ether	5978063	1
Otto Fischer/Kehr	Ether	5976067	1
Otto Fischer/Kehr	Ether	5977051	1
Otto Fischer/Kehr	Ether	5977056	1
Otto FischerGmbH / Alli...	Ether	597401B	1
Phoenix/Fischarl	Ether	5973066	1
Phönix/Fischer	Ether	5977018	1
Phönix	Ether	52153	1
Phönix	Ether	597204B	1
Phönix	Ether	5977018	1
Sanacorp Fischar	Ether	5978067	1
Sanacorp/Hedinger	Ether	52163	2
Sanacorp	Ether	2971044	1
Sanacorp	Ether	52152	1
Sanacorp	Ether	5970071	1
Sanacorp	Ether	5978017	1
Stumpf/Fischer	Ether	5974052	1

- 296 969 spectra from 1324 *Apo-Ident* customers from a total of 52 816 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Ether* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Ether* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	200	0	68 299
Type B	0	130	0	111 183
Type C	0	487	2	296 969

The substance/substance group *Ether* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6875 %)	99.5910 % (> 98.9775 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to

exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Ether* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Permethrin 25% solution	95.77	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Ether* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31854	31854	0.00	161.20
31855	31854	0.48	161.36
33214	31854	5.08	151.54
33633	31854	4.03	155.42

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Ethyl acetate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30719-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Ethyl acetate; Ethylis acetas

Special notes

When selecting the *Ethyl acetate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Ethyl acetate	4	3	18

Second-stage model

For differentiation of the substance/substance group *Ethyl acetate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Ethyl acetate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Ethyl acetate	11357003	30719	40	1402681
Caelo	Ethyl acetate	13366102	31385	40	20131107
Caelo	Ethyl acetate	180804	34075	40	20180320*
Caelo	Ethyl acetate	21001136	35547	50	20210426*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 170 spectra of 4 reference samples from the substance/substance group *Ethyl acetate*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 329 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Ethyl acetate*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Ethyl acetate	15362301	32568	40
Caelo	Ethyl acetate	15362303	33215	40
Caelo	Ethyl acetate	192305003	35294	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 31 spectra from 27 *Apo-Ident* customers from 20 batches from the substance/substance group *Ethyl acetate*.
- Among them are spectra of independent samples from 18 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Ethyl acetate		1
Caelo	Ethyl acetate	10286201	1
Caelo	Ethyl acetate	11357003	2
Caelo	Ethyl acetate	12357601	1
Caelo	Ethyl acetate	12357604	1
Caelo	Ethyl acetate	13366101	1
Caelo	Ethyl acetate	14305302	1
Caelo	Ethyl acetate	15182402	2
Caelo	Ethyl acetate	15182404	1
Caelo	Ethyl acetate	15362301	1
Caelo	Ethyl acetate	15362303	1
Caelo	Ethyl acetate	15362304	3
Caelo	Ethyl acetate	16343802	1
Caelo	Ethyl acetate	16943801	1
Caelo	Ethyl acetate	18039501	3
Caelo	Ethyl acetate	18080401	3
Caelo	Ethyl acetate	18080402	1
Caelo	Ethyl acetate	192305002	2
Caelo	Ethyl acetate	9081304	1
Caesar & Loretz GmbH / ...	Ethyl acetate	18080403	1
Caesar & Loretz GmbH	Ethyl acetate	18080402	2

- 297 427 spectra from 1324 *Apo-Ident* customers from a total of 52 968 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Ethyl acetate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Ethyl acetate* and it was evaluated

how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	170	0	68 329
Type B	0	120	0	111 193
Type C	0	31	0	297 427

The substance/substance group *Ethyl acetate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.4706 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6878 %)	100.0000 % (> 80.6452 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Ethyl acetate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Acetone	44.64	–
Permethrin 25% solution	123.98	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Ethyl acetate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30719	30719	0.00	44.39
31385	34075	8.01	39.56
34075	34075	0.00	42.01
35547	35547	0.00	41.23

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Eucalyptus oil / Rosmary oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30875-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Eucalyptus oil / Rosmary oil; Eucalypti aetheroleum; Eucalyptus oil; Rosemary oil; Rosmarini aetheroleum

Special notes

When selecting the *Eucalyptus oil / Rosmary oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Eucalyptus oil / Rosmary oil	19	19	543

Second-stage model

For differentiation of the substance/substance group *Eucalyptus oil / Rosmary oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Eucalyptus oil / Rosmary oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Eucalyptus oil	279796	31110	40	73399
Bombastus	Eucalyptus oil	18005784	34523	40	127858
Caelo	Eucalyptus oil	13106314	31284	40	AR-15-FG-000909-01
Caelo	Eucalyptus oil	14039604	31285	40	1412280
Caelo	Eucalyptus oil	14039609	31298	40	20140214
Caelo	Eucalyptus oil	14121904	31314	40	AR-15-FG-004302-01
Caelo	Eucalyptus oil	14039626	31864	60	20140211
Caelo	Eucalyptus oil	15316504	31865	60	20150925
Caelo	Eucalyptus oil	21001199	35553	50	20210426*
Euro OTC	Eucalyptus oil	1406028-01	31527	60	20140716
Euro OTC	Eucalyptus oil	1511015	31823	60	20151214*
Fagron	Eucalyptus oil	16C15-B05-331849	33277	40	20160411
Fagron	Eucalyptus oil	18F12-B03-364810	34759	40	20180807
Caelo	Rosemary oil	162769	32686	40	20160930*
Caelo	Rosemary oil	191803	34614	40	20190703*
Euro OTC	Rosemary oil	1303016-01	31311	40	1502125
Euro OTC	Rosemary oil	1511016	31822	60	20151214*
Euro OTC	Rosemary oil	2008036	35139	40	20201127*
Fagron	Rosemary oil	12E08-N05	30875	40	1502124

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 870 spectra of 19 reference samples from the substance/substance group *Eucalyptus oil / Rosmary oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 19 different batches.

- 67 629 spectra from a total of 1394 batches from further 227 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 750 spectra of 19 reference samples from the substance/substance group *Eucalyptus oil / Rosmary oil*.

- Among them are spectra of independent samples from 19 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Eucalyptus oil	21001207	36194	40
Caelo	Eucalyptus oil	11104312	30859	40
Caelo	Eucalyptus oil	163513	33084	40
Caelo	Eucalyptus oil	192026	34649	40
Caelo	Eucalyptus oil	192938	34723	40
Caelo	Eucalyptus oil	20000642	35026	40
Caelo	Eucalyptus oil	21004148	36162	40
Euro OTC	Eucalyptus oil	1608042	32773	40
Euro OTC	Eucalyptus oil	1703030	33237	40
Euro OTC	Eucalyptus oil	1801002	33928	40
Euro OTC	Eucalyptus oil	1806016	34189	40
Euro OTC	Eucalyptus oil	1903030	34496	40
Euro OTC	Eucalyptus oil	2009023	35117	40
Euro OTC	Eucalyptus oil	2204012	36277	30
Bombastus	Rosemary oil	22001148	36198	40
Euro OTC	Rosemary oil	1608043	32774	40
Euro OTC	Rosemary oil	1803038	34088	40
Euro OTC	Rosemary oil	1903001	34420	40
Euro OTC	Rosemary oil	2205009	36279	40

- 110 563 spectra from a total of 2647 batches from further 349 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1645 spectra from 494 *Apo-Ident* customers from 555 batches from the substance/substance group *Eucalyptus oil / Rosmary oil*.

- Among them are spectra of independent samples from 533 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
14039625	Eucalyptus oil	14039625	1
ACM	Eucalyptus oil		1
AHD , 03.09.13	Rosemary oil	12246515	2
AHD 03.12.2013	Eucalyptus oil	282165	1
AHD 07.10.16 E.k:9,72	Eucalyptus oil	15400203	1
ahd/lamotte	Eucalyptus oil	14039604	1
AHD	Eucalyptus oil	307667	1
Alliance Health Care	Eucalyptus oil	291534	1
Alliance Healthcare	Eucalyptus oil	18001402	1
Allianz Healthcare	Eucalyptus oil	15400202	1
Anzag 05.11.12 ek:7,37	Rosemary oil	11287211	1
Anzag 12.03.13 ek: 7,37EUR	Rosemary oil	12246508	1
Anzag	Eucalyptus oil	273707	1
Apotheke Bauer,München	Rosemary oil	201703347	1
Apotheker Bauer & Cie	Eucalyptus oil		1
bambastus	Eucalyptus oil	12269005-2-0	1
Bergland / Gehe	Eucalyptus oil	K301874	1
Bergland / Gehe	Eucalyptus oil	K302509	1
Bergland/Sanacorp	Rosemary oil	C301101-3448311132	1
Bergland	Rosemary oil	K601476	1
Bergland	Eucalyptus oil	K801202	1
Bomastus direkt	Eucalyptus oil	293624	1
Bombastus	Eucalyptus oil	118005784	1
Bombastus	Rosemary oil	17000647	1
Bombastus	Eucalyptus oil	17000944	8
Bombastus	Eucalyptus oil	17000947	4
Bombastus	Eucalyptus oil	17001384	2
Bombastus	Eucalyptus oil	1700387-1961	1
Bombastus	Rosemary oil	17006473286	1
Bombastus	Eucalyptus oil	18000176	10
Bombastus	Eucalyptus oil	18001402	1
Bombastus	Rosemary oil	18001783	3
Bombastus	Eucalyptus oil	18001849	3
Bombastus	Rosemary oil	18003402	2
Bombastus	Rosemary oil	180035943286	1
Bombastus	Eucalyptus oil	18004242	3
Bombastus	Rosemary oil	18004852	3
Bombastus	Eucalyptus oil	18005267	4
Bombastus	Rosemary oil	18005616	3
Bombastus	Eucalyptus oil	18005784	26
Bombastus	Eucalyptus oil	180057843214	1
Bombastus	Eucalyptus oil	18006426	2
Bombastus	Eucalyptus oil	19000586	5
Bombastus	Eucalyptus oil	19000587	5
Bombastus	Rosemary oil	19000812	5
Bombastus	Eucalyptus oil	19001869	8
Bombastus	Rosemary oil	19002758	1
Bombastus	Eucalyptus oil	19002830	1
Bombastus	Eucalyptus oil	19002892	7
Bombastus	Eucalyptus oil	19002956	5
Bombastus	Rosemary oil	19003037	3
Bombastus	Eucalyptus oil	19004174	6
Bombastus	Eucalyptus oil	19005565	1
Bombastus	Rosemary oil	19006261	1
Bombastus	Rosemary oil	19006565	3
Bombastus	Rosemary oil	199003037	1
Bombastus	Eucalyptus oil	20000294	2
Bombastus	Eucalyptus oil	20000339	6
Bombastus	Eucalyptus oil	20002624	1
Bombastus	Eucalyptus oil	2000339	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Eucalyptus oil	20003487	3
Bombastus	Rosemary oil	20003725	3
Bombastus	Eucalyptus oil	20003727	2
Bombastus	Eucalyptus oil	20005166	2
Bombastus	Eucalyptus oil	2003487	2
Bombastus	Rosemary oil	2003725	1
Bombastus	Eucalyptus oil	2005166	1
Bombastus	Eucalyptus oil	21000603	2
Bombastus	Rosemary oil	21000910	1
Bombastus	Eucalyptus oil	21001207	1
Bombastus	Eucalyptus oil	210809(20003487)	1
Bombastus	Eucalyptus oil	220110(21001207)	1
Bombastus	Eucalyptus oil	220628(21001207)	1
Bombastus	Eucalyptus oil	261706	1
Bombastus	Eucalyptus oil	269495	1
Bombastus	Eucalyptus oil	270004	1
Bombastus	Eucalyptus oil	273707	1
Bombastus	Rosemary oil	273724	3
Bombastus	Eucalyptus oil	275646	2
Bombastus	Rosemary oil	275963	1
Bombastus	Eucalyptus oil	276113	1
Bombastus	Eucalyptus oil	277671	1
Bombastus	Eucalyptus oil	278619	2
Bombastus	Rosemary oil	278907	4
Bombastus	Eucalyptus oil	279798	1
Bombastus	Eucalyptus oil	281667	2
Bombastus	Rosemary oil	281945	1
Bombastus	Rosemary oil	282541	1
Bombastus	Eucalyptus oil	283384	1
Bombastus	Eucalyptus oil	283991	1
Bombastus	Eucalyptus oil	284861	1
Bombastus	Eucalyptus oil	285362	2
Bombastus	Eucalyptus oil	285615	2
Bombastus	Rosemary oil	285668	1
Bombastus	Eucalyptus oil	286454	2
Bombastus	Eucalyptus oil	286740	2
Bombastus	Rosemary oil	2872889	1
Bombastus	Eucalyptus oil	288028	1
Bombastus	Eucalyptus oil	288085	4
Bombastus	Rosemary oil	288951	1
Bombastus	Rosemary oil	289392	2
Bombastus	Eucalyptus oil	290094	1
Bombastus	Eucalyptus oil	291597	2
Bombastus	Eucalyptus oil	292317	1
Bombastus	Eucalyptus oil	293087	3
Bombastus	Eucalyptus oil	293175	2
Bombastus	Eucalyptus oil	293227	3
Bombastus	Eucalyptus oil	294181	1
Bombastus	Eucalyptus oil	294460	2
Bombastus	Eucalyptus oil	294687	1
Bombastus	Rosemary oil	295093	1
Bombastus	Eucalyptus oil	295573	1
Bombastus	Rosemary oil	296037	2
Bombastus	Eucalyptus oil	296079	2
Bombastus	Eucalyptus oil	296325	3
Bombastus	Eucalyptus oil	297732	1
Bombastus	Rosemary oil	298408	2
Bombastus	Eucalyptus oil	298889	2
Bombastus	Eucalyptus oil	298985	4
Bombastus	Eucalyptus oil	299561	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Eucalyptus oil	299699	3
Bombastus	Eucalyptus oil	300063	4
Bombastus	Eucalyptus oil	300798	1
Bombastus	Eucalyptus oil	300881	4
Bombastus	Rosemary oil	301180	1
Bombastus	Eucalyptus oil	301205	2
Bombastus	Eucalyptus oil	302670	1
Bombastus	Eucalyptus oil	303327	2
Bombastus	Eucalyptus oil	303336	2
Bombastus	Rosemary oil	304472	3
Bombastus	Eucalyptus oil	304517	3
Bombastus	Eucalyptus oil	305628	1
Bombastus	Rosemary oil	305785	1
Bombastus	Eucalyptus oil	306025	4
Bombastus	Rosemary oil	306506	5
Bombastus	Eucalyptus oil	306637	4
Bombastus	Eucalyptus oil	307667	8
Bombastus	Eucalyptus oil	307668	2
Bombastus	Eucalyptus oil	308151	5
Bombastus	Eucalyptus oil	308248	2
Bombastus	Eucalyptus oil	308260	1
Bombastus	Rosemary oil	311262	1
Bombastus	Rosemary oil	6860867	1
Bombastus	Eucalyptus oil	90(307667)	1
Bombastus	Eucalyptus oil	91(18005784)	1
Bombastus	Eucalyptus oil	91101	1
Bombastus	Eucalyptus oil	92(19001869)	1
Bombastus	Eucalyptus oil	97(20003487)	1
Bombastu-Werke AG/Gehe	Eucalyptus oil	282165	1
Bombastu-Werke AG/Gehe	Eucalyptus oil	283991	1
Bomsatus	Eucalyptus oil	20000056	1
Caelo	Eucalyptus oil		3
Caelo	Eucalyptus oil	10051816	1
Caelo	Eucalyptus oil	10318506	1
Caelo	Rosemary oil	10374817	2
Caelo	Rosemary oil	11031402	1
Caelo	Eucalyptus oil	11102507	2
Caelo	Eucalyptus oil	11104312	1
Caelo	Rosemary oil	1117I-02012	1
Caelo	Rosemary oil	11287208	3
Caelo	Rosemary oil	11287211	6
Caelo	Eucalyptus oil	11324107	5
Caelo	Eucalyptus oil	11324108	1
Caelo	Eucalyptus oil	11324112	8
Caelo	Rosemary oil	1209034-01	2
Caelo	Eucalyptus oil	12103605	1
Caelo	Eucalyptus oil	12103607	4
Caelo	Eucalyptus oil	12103611	4
Caelo	Eucalyptus oil	12103612	1
Caelo	Eucalyptus oil	12114107	2
Caelo	Eucalyptus oil	12114111	1
Caelo	Eucalyptus oil	12114112	5
Caelo	Eucalyptus oil	1214E-01978	1
Caelo	Rosemary oil	12246501	5
Caelo	Rosemary oil	12246508	5
Caelo	Rosemary oil	12246515	3
Caelo	Rosemary oil	12246517	2
Caelo	Rosemary oil	12246520	3
Caelo	Rosemary oil	13/19-B04-293577	3
Caelo	Eucalyptus oil	13106301	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Eucalyptus oil	13106304	1
Caelo	Eucalyptus oil	13106316	1
Caelo	Eucalyptus oil	13106326	4
Caelo	Eucalyptus oil	13106401	5
Caelo	Eucalyptus oil	13106402	2
Caelo	Eucalyptus oil	13106403	3
Caelo	Eucalyptus oil	13106411	3
Caelo	Eucalyptus oil	13106412	8
Caelo	Eucalyptus oil	13106413	1
Caelo	Rosemary oil	1319b04-302288	1
Caelo	Rosemary oil	13241711	1
Caelo	Rosemary oil	13I19-B04-293599	1
Caelo	Rosemary oil	1402907	1
Caelo	Eucalyptus oil	14039601	2
Caelo	Eucalyptus oil	14039602	1
Caelo	Eucalyptus oil	14039603	1
Caelo	Eucalyptus oil	14039604	1
Caelo	Eucalyptus oil	14039609	17
Caelo	Eucalyptus oil	14039610	1
Caelo	Eucalyptus oil	14039612	1
Caelo	Eucalyptus oil	14039618	2
Caelo	Eucalyptus oil	14039622	2
Caelo	Eucalyptus oil	14039623	1
Caelo	Eucalyptus oil	14039625	5
Caelo	Eucalyptus oil	14039626	9
Caelo	Eucalyptus oil	14039627	3
Caelo	Eucalyptus oil	14039630	1
Caelo	Rosemary oil	14092904	3
Caelo	Rosemary oil	14092910	5
Caelo	Rosemary oil	14092911	4
Caelo	Eucalyptus oil	14121904	5
Caelo	Eucalyptus oil	14121905	1
Caelo	Eucalyptus oil	1439603	1
Caelo	Eucalyptus oil	150111701	1
Caelo	Eucalyptus oil	15011701	7
Caelo	Eucalyptus oil	15011702	1
Caelo	Eucalyptus oil	15011703	1
Caelo	Eucalyptus oil	15011704	1
Caelo	Rosemary oil	150422	1
Caelo	Rosemary oil	15042203	1
Caelo	Eucalyptus oil	15063301	5
Caelo	Eucalyptus oil	15063302	1
Caelo	Eucalyptus oil	15063303	1
Caelo	Eucalyptus oil	15063309	19
Caelo	Eucalyptus oil	15063309/1100516	1
Caelo	Eucalyptus oil	15063312	12
Caelo	Eucalyptus oil	15063313	1
Caelo	Eucalyptus oil	15063316	2
Caelo	Rosemary oil	1511016-01	1
Caelo	Eucalyptus oil	1515Q-01978	1
Caelo	Eucalyptus oil	15316501	9
Caelo	Eucalyptus oil	15316502	6
Caelo	Eucalyptus oil	15316504	14
Caelo	Eucalyptus oil	15316505	1
Caelo	Eucalyptus oil	15316507	1
Caelo	Eucalyptus oil	15316512	9
Caelo	Eucalyptus oil	15316514	1
Caelo	Rosemary oil	15316703	1
Caelo	Rosemary oil	15316704	5
Caelo	Rosemary oil	15316706	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Eucalyptus oil	15326512	1
Caelo	Eucalyptus oil	15400202	19
Caelo	Eucalyptus oil	15400203	4
Caelo	Eucalyptus oil	15400204	1
Caelo	Eucalyptus oil	15400206	4
Caelo	Eucalyptus oil	15400210	13
Caelo	Eucalyptus oil	15400211	5
Caelo	Eucalyptus oil	15400220	1
Caelo	Rosemary oil	15442001	3
Caelo	Rosemary oil	15442009	2
Caelo	Rosemary oil	15442017	7
Caelo	Rosemary oil	15442018	1
Caelo	Rosemary oil	15442019	1
Caelo	Rosemary oil	15442020	1
Caelo	Eucalyptus oil	1608042	2
Caelo	Eucalyptus oil	1608042-01	1
Caelo	Rosemary oil	1608043-01	2
Caelo	Eucalyptus oil	16235505	14
Caelo	Eucalyptus oil	16235508	2
Caelo	Rosemary oil	16276903	5
Caelo	Rosemary oil	16276903-20170704Ma1	1
Caelo	Rosemary oil	16276904	1
Caelo	Rosemary oil	16276905	1
Caelo	Rosemary oil	16276907	2
Caelo	Rosemary oil	16276908	4
Caelo	Rosemary oil	16276910	7
Caelo	Rosemary oil	16276917	1
Caelo	Eucalyptus oil	16351301	10
Caelo	Eucalyptus oil	16351302	3
Caelo	Eucalyptus oil	16351308	4
Caelo	Eucalyptus oil	16351309	9
Caelo	Eucalyptus oil	16351312	30
Caelo	Eucalyptus oil	16351313	8
Caelo	Eucalyptus oil	16351314	1
Caelo	Eucalyptus oil	16351316	2
Caelo	Rosemary oil	17012014	1
Caelo	Eucalyptus oil	170303001	1
Caelo	Eucalyptus oil	1703030-01	1
Caelo	Eucalyptus oil	17198802	11
Caelo	Rosemary oil	17326702	16
Caelo	Rosemary oil	17326703	4
Caelo	Rosemary oil	17326704	1
Caelo	Rosemary oil	17326707	1
Caelo	Rosemary oil	17326712	1
Caelo	Rosemary oil	17326713	3
Caelo	Rosemary oil	17326716	2
Caelo	Eucalyptus oil	17337701	7
Caelo	Eucalyptus oil	17337702	2
Caelo	Eucalyptus oil	17337705	3
Caelo	Eucalyptus oil	17337707	6
Caelo	Eucalyptus oil	17337710	1
Caelo	Rosemary oil	1736702	1
Caelo	Eucalyptus oil	18000176	1
Caelo	Rosemary oil	18003594	1
Caelo	Eucalyptus oil	18006426	1
Caelo	Eucalyptus oil	18027403	1
Caelo	Eucalyptus oil	18027408	2
Caelo	Eucalyptus oil	18027409	1
Caelo	Eucalyptus oil	18027417	3
Caelo	Eucalyptus oil	1806016-01	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Rosemary oil	18091402	1
Caelo	Eucalyptus oil	18171701	35
Caelo	Eucalyptus oil	18171702	4
Caelo	Eucalyptus oil	18171703	2
Caelo	Eucalyptus oil	18171704	2
Caelo	Eucalyptus oil	18171707	16
Caelo	Eucalyptus oil	18171708	4
Caelo	Eucalyptus oil	18171712	1
Caelo	Eucalyptus oil	18171714	9
Caelo	Eucalyptus oil	18171715	6
Caelo	Eucalyptus oil	1817702	1
Caelo	Eucalyptus oil	18225401	14
Caelo	Eucalyptus oil	18225402	2
Caelo	Eucalyptus oil	18225403	2
Caelo	Eucalyptus oil	18225404	1
Caelo	Eucalyptus oil	18225407	8
Caelo	Eucalyptus oil	18225408	3
Caelo	Eucalyptus oil	18225410	4
Caelo	Eucalyptus oil	18225411	1
Caelo	Eucalyptus oil	18225413	4
Caelo	Eucalyptus oil	18225416	1
Caelo	Eucalyptus oil	18225417	1
Caelo	Eucalyptus oil	18225602	5
Caelo	Eucalyptus oil	18225801	1
Caelo	Eucalyptus oil	18225802	1
Caelo	Eucalyptus oil	18225803	1
Caelo	Rosemary oil	18252001	1
Caelo	Rosemary oil	18252002	9
Caelo	Rosemary oil	18252003	1
Caelo	Rosemary oil	18252007	8
Caelo	Rosemary oil	18252008	2
Caelo	Rosemary oil	18252009	1
Caelo	Rosemary oil	18252017	7
Caelo	Rosemary oil	18252018	1
Caelo	Rosemary oil	18252023	1
Caelo	Eucalyptus oil	1871701	1
Caelo	Eucalyptus oil	19016705	1
Caelo	Eucalyptus oil	19016707	4
Caelo	Eucalyptus oil	19016710	2
Caelo	Eucalyptus oil	19016712	3
Caelo	Eucalyptus oil	19016714	15
Caelo	Eucalyptus oil	19016715	4
Caelo	Eucalyptus oil	1901672	1
Caelo	Eucalyptus oil	1906714	1
Caelo	Rosemary oil	191803004	2
Caelo	Rosemary oil	191803005	1
Caelo	Rosemary oil	191803006	2
Caelo	Rosemary oil	19180301	1
Caelo	Rosemary oil	191803010	1
Caelo	Rosemary oil	191803011	3
Caelo	Rosemary oil	191803012	2
Caelo	Rosemary oil	19180302	1
Caelo	Rosemary oil	19180305	17
Caelo	Eucalyptus oil	192026001	1
Caelo	Eucalyptus oil	192026002	1
Caelo	Eucalyptus oil	192026004	1
Caelo	Eucalyptus oil	192026006	6
Caelo	Eucalyptus oil	19238009	1
Caelo	Eucalyptus oil	192938004	2
Caelo	Eucalyptus oil	192938005	24

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Eucalyptus oil	192938006	1
Caelo	Eucalyptus oil	192938008	7
Caelo	Eucalyptus oil	192938009	2
Caelo	Eucalyptus oil	192938011	2
Caelo	Eucalyptus oil	19298005	1
Caelo	Eucalyptus oil	20000642003	3
Caelo	Eucalyptus oil	20000642007	4
Caelo	Rosemary oil	20003725	1
Caelo	Rosemary oil	20004109002	1
Caelo	Rosemary oil	20004109005	1
Caelo	Rosemary oil	20004109015	1
Caelo	Eucalyptus oil	20004134001	7
Caelo	Eucalyptus oil	20004134003	1
Caelo	Eucalyptus oil	2000433006	1
Caelo	Eucalyptus oil	20004332002	1
Caelo	Eucalyptus oil	20004332007	3
Caelo	Eucalyptus oil	20004332008	2
Caelo	Eucalyptus oil	20004332010	4
Caelo	Eucalyptus oil	20004332011	1
Caelo	Eucalyptus oil	2000642007	1
Caelo	Eucalyptus oil	2003022-01	1
Caelo	Rosemary oil	2016E-02012	1
Caelo	Rosemary oil	2019U-02012	1
Caelo	Eucalyptus oil	2112I-01978	1
Caelo	Eucalyptus oil	24061708	1
Caelo	Rosemary oil	24061709	1
Caelo	Rosemary oil	2613M-02012	1
Caelo	Eucalyptus oil	270421	1
Caelo	Rosemary oil	2715E-02012	1
Caelo	Rosemary oil	273098	1
Caelo	Rosemary oil	275963	1
Caelo	Eucalyptus oil	276113	1
Caelo	Rosemary oil	279984	1
Caelo	Rosemary oil	28051309	1
Caelo	Eucalyptus oil	28071502	1
Caelo	Rosemary oil	28111813	1
Caelo	Eucalyptus oil	2818A-01978	1
Caelo	Eucalyptus oil	290094	1
Caelo	Rosemary oil	29092003	1
Caelo	Eucalyptus oil	292087	1
Caelo	Eucalyptus oil	293087	1
Caelo	Eucalyptus oil	294687	1
Caelo	Rosemary oil	296036	1
Caelo	Eucalyptus oil	296079	1
Caelo	Eucalyptus oil	297732	2
Caelo	Eucalyptus oil	301115	1
Caelo	Eucalyptus oil	3012E-01978	1
Caelo	Rosemary oil	3018E-02012	1
Caelo	Eucalyptus oil	303327	1
Caelo	Eucalyptus oil	306025	1
Caelo	Eucalyptus oil	307667	2
Caelo	Rosemary oil	3091206	1
Caelo	Rosemary oil	31031502	1
Caelo	Eucalyptus oil	3322	1
Caelo	Rosemary oil	382H25	1
Caelo	Rosemary oil	4101301	1
Caelo	Eucalyptus oil	4136096	2
Caelo	Rosemary oil	462K25	1
Caelo	Eucalyptus oil	513I-01978	1
Caelo	Rosemary oil	56(16276908)	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Rosemary oil	57(17326713)	1
Caelo	Rosemary oil	58(18252007)	1
Caelo	Rosemary oil	59(191803011)	1
Caelo	Rosemary oil	60(191803011)	1
Caelo	Eucalyptus oil	617Q-01978	1
Caelo	Eucalyptus oil	7011302	1
Caelo	Eucalyptus oil	9061815	1
Caelo	Rosemary oil	9061816	1
Caelo	Eucalyptus oil	916M-01978	1
Caelo	Eucalyptus oil	9351601	1
Caelo	Eucalyptus oil	P-09121922/19016710	1
Caesaer/Jenne	Rosemary oil	17326713	1
Caesar & Loretz GmbH / ...	Eucalyptus oil	18225407	1
Caesar & Loretz GmbH / ...	Eucalyptus oil	18171707	2
Caesar & Loretz GmbH / ...	Rosemary oil	18252017	1
Caesar & Loretz GmbH D-...	Eucalyptus oil	11102507	1
Caesar & Loretz GmbH/ N...	Eucalyptus oil	18225401	2
Caesar & Loretz GmbH/ P...	Eucalyptus oil	20004332002	1
Caesar & Loretz GmbH/An...	Eucalyptus oil	18171707	1
Caesar & Loretz GmbH/Fi...	Rosemary oil	18252002	1
Caesar & Loretz GmbH/Fi...	Rosemary oil	1903001-01	1
Caesar & Loretz GmbH/Gehe	Eucalyptus oil	19016714	1
Caesar & Loretz GmbH/Gehe	Rosemary oil	191803011	1
Caesar & Loretz GmbH/GEhe	Eucalyptus oil	20004332010	1
Caesar & Loretz GmbH/Je...	Eucalyptus oil	18171708	1
Caesar & Loretz GmbH/No...	Eucalyptus oil	192938005	1
Caesar & Loretz GmbH/no...	Eucalyptus oil	20004134004	1
Caesar & Loretz GmbH/No...	Eucalyptus oil	20004332002	1
Caesar & Loretz GmbH/Ph...	Eucalyptus oil	192938005	1
Caesar & Loretz GmbH/Sa...	Eucalyptus oil	18171714	2
Caesar & Loretz GmbH/Sa...	Rosemary oil	19180305	1
Caesar & Loretz GmbH/Sa...	Eucalyptus oil	192938005	1
Caesar & Loretz GmbH/Sa...	Eucalyptus oil	192938009	1
Caesar & Loretz GmbH/Sp...	Eucalyptus oil	18171707	1
Caesar & Loretz GmbH	Eucalyptus oil	18171701	3
Caesar & Loretz GmbH	Eucalyptus oil	18171703	1
Caesar & Loretz GmbH	Eucalyptus oil	18171707	3
Caesar & Loretz GmbH	Eucalyptus oil	18171708	2
Caesar & Loretz GmbH	Eucalyptus oil	18171714	5
Caesar & Loretz GmbH	Eucalyptus oil	18171715	1
Caesar & Loretz GmbH	Eucalyptus oil	18225402	1
Caesar & Loretz GmbH	Eucalyptus oil	18225407	1
Caesar & Loretz GmbH	Eucalyptus oil	18225410	1
Caesar & Loretz GmbH	Rosemary oil	18252002	2
Caesar & Loretz GmbH	Rosemary oil	18252005	1
Caesar & Loretz GmbH	Rosemary oil	18252007	4
Caesar & Loretz GmbH	Rosemary oil	18252009	1
Caesar & Loretz GmbH	Rosemary oil	18252010	2
Caesar & Loretz GmbH	Rosemary oil	18252017	2
Caesar & Loretz GmbH	Eucalyptus oil	19016704	1
Caesar & Loretz GmbH	Eucalyptus oil	19016707	4
Caesar & Loretz GmbH	Eucalyptus oil	19016710	1
Caesar & Loretz GmbH	Eucalyptus oil	19016712	4
Caesar & Loretz GmbH	Eucalyptus oil	19016714	3
Caesar & Loretz GmbH	Eucalyptus oil	19016715	1
Caesar & Loretz GmbH	Eucalyptus oil	19026006	1
Caesar & Loretz GmbH	Rosemary oil	191803004	1
Caesar & Loretz GmbH	Rosemary oil	19180302	1
Caesar & Loretz GmbH	Rosemary oil	19180305	6
Caesar & Loretz GmbH	Eucalyptus oil	192026006	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Eucalyptus oil	192938005	6
Caesar & Loretz GmbH	Eucalyptus oil	192938009	1
Caesar & Loretz GmbH	Eucalyptus oil	192938011	2
Caesar & Loretz GmbH	Eucalyptus oil	192938012	1
Caesar & Loretz GmbH	Eucalyptus oil	20000642003	1
Caesar & Loretz GmbH	Eucalyptus oil	20000642004	1
Caesar & Loretz GmbH	Eucalyptus oil	20000642005	1
Caesar & Loretz GmbH	Eucalyptus oil	20000642007	1
Caesar & Loretz GmbH	Eucalyptus oil	20003801001	1
Caesar & Loretz GmbH	Eucalyptus oil	20003965002	1
Caesar & Loretz GmbH	Eucalyptus oil	20004134001	1
Caesar & Loretz GmbH	Eucalyptus oil	20004332007	1
Caesar & Loretz GmbH	Eucalyptus oil	20004332008	1
Caesar & Loretz GmbH	Eucalyptus oil	21001199007	1
Caesar & Loretz GmbH	Eucalyptus oil	21004148004	1
Caeser und Loretz GmbH	Eucalyptus oil	19016707	1
Cealo/AHD	Eucalyptus oil	15316512	1
Cealo	Eucalyptus oil	192938005	1
Celo	Eucalyptus oil	15400202	1
Cordes/ Novatis	Eucalyptus oil	192938005	1
EuRho	Eucalyptus oil	288085	1
Euro OTC	Rosemary oil	1202025-01	2
Euro OTC	Eucalyptus oil	1202030-01	1
Euro OTC	Rosemary oil	1209034-01	1
Euro OTC	Eucalyptus oil	1211028-01	4
Euro OTC	Eucalyptus oil	1211028-02	2
Euro OTC	Eucalyptus oil	12D05-N03	1
Euro OTC	Rosemary oil	1303016-01	1
Euro OTC	Rosemary oil	130801401	2
Euro OTC	Rosemary oil	1404037-01	1
Euro OTC	Rosemary oil	1404037-02	1
Euro OTC	Eucalyptus oil	1406028-01	1
Euro OTC	Eucalyptus oil	15063309	1
Euro OTC	Eucalyptus oil	1511015_01	1
Euro OTC	Eucalyptus oil	1511015-01	2
Euro OTC	Rosemary oil	1511016-01	1
Euro OTC	Rosemary oil	1511016-02	3
Euro OTC	Eucalyptus oil	1608042-01	6
Euro OTC	Eucalyptus oil	1703030-01	1
Euro OTC	Eucalyptus oil	180100201	1
Euro OTC	Eucalyptus oil	1801002-01	2
Euro OTC	Rosemary oil	1803038-01	2
Euro OTC	Eucalyptus oil	1806013-01	1
Euro OTC	Eucalyptus oil	1806016-01	5
Euro OTC	Rosemary oil	1903001-01	3
Euro OTC	Eucalyptus oil	1903030-01	3
Euro OTC	Eucalyptus oil	2002022-01	1
Euro OTC	Eucalyptus oil	2003022-01	4
Euro OTC	Eucalyptus oil	278619	1
Euro OTC	Rosemary oil	290203901	1
Euro OTC	Eucalyptus oil	300881	1
Euro OTC	Rosemary oil	954878	1
Fagro/Gehe	Eucalyptus oil	14/20-B02-302706	1
Fagron	Eucalyptus oil	11/27-N03	1
Fagron	Eucalyptus oil	11102506	1
Fagron	Eucalyptus oil	11D11-N02	1
Fagron	Rosemary oil	11K21-N05	3
Fagron	Eucalyptus oil	11K23-N05	2
Fagron	Eucalyptus oil	12B23-N08	8
Fagron	Rosemary oil	12E08-N05	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Eucalyptus oil	12G25-N11	7
Fagron	Rosemary oil	13/19-B04-287289	1
Fagron	Rosemary oil	13/19-B04-293577	9
Fagron	Rosemary oil	13/19-B04-308855	2
Fagron	Rosemary oil	13A28-N03	3
Fagron	Rosemary oil	13B18-N01	3
Fagron	Eucalyptus oil	13E15-N04	4
Fagron	Rosemary oil	13I19B04	1
Fagron	Rosemary oil	13I19-B04	5
Fagron	Rosemary oil	13I19-B04-293577	2
Fagron	Rosemary oil	13L19-B04-302288	1
Fagron	Eucalyptus oil	14A17B40	1
Fagron	Eucalyptus oil	14A17-B40	3
Fagron	Eucalyptus oil	14A17-B40-291551	1
Fagron	Eucalyptus oil	14B03-B02-304361	1
Fagron	Eucalyptus oil	14e09-b06-294679	1
Fagron	Eucalyptus oil	14E09-B06-294681	2
Fagron	Rosemary oil	1511016-02	1
Fagron	Eucalyptus oil	15B03-B02-304362	3
Fagron	Eucalyptus oil	15B03-B03-304361	1
Fagron	Eucalyptus oil	15Bo3-Bo2-30462	1
Fagron	Rosemary oil	1608043-01	1
Fagron	Eucalyptus oil	16C15-B05-322992	2
Fagron	Eucalyptus oil	16C15-B05-327603	1
Fagron	Rosemary oil	16L22B84329543	1
Fagron	Eucalyptus oil	18171701	1
Fagron	Eucalyptus oil	303327	1
Fagron	Rosemary oil	693655-N12	1
Fagron	Eucalyptus oil	C15-B05-322992	1
fargo	Rosemary oil	13A28-N03	2
Fiebig	Rosemary oil	15442018	1
Fiebig	Rosemary oil	16276912	1
Fiebig	Rosemary oil	17326704	1
Fiebig	Rosemary oil	17326714	1
Fiebig	Eucalyptus oil	18005267	1
Fiebig	Eucalyptus oil	18006213	1
Fiebig	Rosemary oil	18252013	2
Fiebig	Eucalyptus oil	305909	1
Frey & Lau GmbH/Phoenix	Eucalyptus oil	12G25-N11	1
Frey & Lau GmbH/Phoenix	Rosemary oil	13/19-B04-293575	1
Frey+Lau	Rosemary oil	905855	1
Gatt-Koller	Eucalyptus oil	1702449	1
Gatt-Koller	Rosemary oil	1802349	1
Gatt-Koller	Eucalyptus oil	1803744	1
Gehe 20.02.15	Eucalyptus oil	1406028-02	1
Gehe/ EuRho	Rosemary oil	1903001-01	1
Gehe/L10	Rosemary oil	18252002	1
Gehe	Eucalyptus oil	19001869	1
Gehe	Eucalyptus oil	19016707	1
Gehe	Rosemary oil	19180305	1
Gehe	Eucalyptus oil	296079	1
Gehe	Eucalyptus oil	297732	1
Gehe	Eucalyptus oil	299561	1
Gehe	Rosemary oil	301180	1
Gehe	Eucalyptus oil	302670	1
Gehe	Eucalyptus oil	306637	1
Gehe	Eucalyptus oil	308151	1
Hänseler	Eucalyptus oil		11
Herba	Rosemary oil	5131011122331026	1
Ichthyol-Gesellschaft	Eucalyptus oil	1610280E/15316504	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Jenne	Eucalyptus oil	18171707	3
Jenne	Eucalyptus oil	18171714	2
Kögl	Eucalyptus oil	153305164716	1
Kögl	Eucalyptus oil	20172254	2
Kögl	Rosemary oil	985929	3
L10/Bambastus	Eucalyptus oil	303336	1
L10	Eucalyptus oil	18027411	1
L11	Eucalyptus oil	18027405	1
L12	Eucalyptus oil	15316513	1
L12	Eucalyptus oil	16235509	1
L12	Eucalyptus oil	16351309	1
L12	Rosemary oil	17326702	1
L12	Eucalyptus oil	18225403	2
Noveda	Eucalyptus oil	13106402	1
Noweda 07.11.2019	Eucalyptus oil	18171715	1
Noweda/Phoenix/ Taoasis	Rosemary oil	3231031-117639	1
noweda	Rosemary oil		1
Noweda	Rosemary oil	10374817	1
Noweda	Rosemary oil	11287211	1
Noweda	Eucalyptus oil	16351312	1
Noweda	Eucalyptus oil	1806016-01	1
Noweda	Eucalyptus oil	18225801	1
Noweda	Eucalyptus oil	19000587	2
Noweda	Eucalyptus oil	19001869	2
Noweda	Eucalyptus oil	20000339	1
Noweda	Eucalyptus oil	20003727	1
Noweda	Eucalyptus oil	20004332007	1
Noweda	Eucalyptus oil	5156PT-K11	1
Pharma Liebermann / Now...	Eucalyptus oil	8071115	1
Phoenix 07.01.2019	Eucalyptus oil	18171701	1
Phoenix 07.01.2019	Rosemary oil	18252002	1
Phoenix WE:27.01.2017 ...	Eucalyptus oil	15400210	1
Phoenix/ Taoasis	Rosemary oil	3231016	1
Phoenix	Eucalyptus oil	16235502	1
Phoenix	Eucalyptus oil	16351312	1
Phoenix	Eucalyptus oil	170303001	1
Phoenix	Eucalyptus oil	18005784	1
phoenix	Eucalyptus oil	306637	1
Phönix 7.10.19	Eucalyptus oil	18005784	1
Phönix Gotha	Eucalyptus oil	308151	1
phönix	Eucalyptus oil		2
Phönix	Rosemary oil	131119-B04	1
Phönix	Eucalyptus oil	14A17-B40	1
Phönix	Eucalyptus oil	14A17-B40-291551	1
phönix	Eucalyptus oil	14E09-B06-294681	1
Phönix	Eucalyptus oil	1801002-01	1
Phönix	Eucalyptus oil	19016714	1
Phönix	Eucalyptus oil	273707	1
Phönix	Rosemary oil	282665	1
Primavera/Direkt	Rosemary oil	1204H22	1
Primavera/Direkt	Rosemary oil	1340215	1
Primavera/Direkt	Rosemary oil	13K23	1
Primavera/Direkt	Rosemary oil	193C23	1
Primavera/Direkt	Rosemary oil	274E26	2
Primavera/Direkt	Rosemary oil	426B25	1
Primavera/Gege	Rosemary oil	179G26	1
Primavera/Phoenix	Rosemary oil	207J26	1
Primavera/Sanacorp	Rosemary oil	1058G22	1
primavera	Eucalyptus oil	256A16	1
Primavera	Eucalyptus oil	685C28	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
PVL	Eucalyptus oil	1260813	1
PVL	Rosemary oil	491212	1
rosma	Rosemary oil	17000647	1
sana 05.12.14 5,25	Eucalyptus oil	14039609	1
Sanacorp	Eucalyptus oil	11324112	1
Sanacorp, 21.02.17, 8,73EUR	Rosemary oil	15442017	1
Sanacorp	Eucalyptus oil	14E09-B06	2
Sanacorp	Eucalyptus oil	15400202	1
Sanacorp	Eucalyptus oil	16235508	1
Sanacorp	Eucalyptus oil	16351301	1
Sanacorp	Eucalyptus oil	16351309	1
Sanacorp	Eucalyptus oil	16351313	3
Sanacorp	Rosemary oil	17000647	1
Sanacorp	Eucalyptus oil	17337707	2
Sanacorp	Eucalyptus oil	18000176	1
Sanacorp	Rosemary oil	18001783	1
Sanacorp	Eucalyptus oil	18171701	2
Sanacorp	Eucalyptus oil	18171702	2
Sanacorp	Rosemary oil	287289	1
Sanacorp	Rosemary oil	306506	2
Sanacorp	Eucalyptus oil	48/AKD3	1
Sanacorp	Rosemary oil	777549	1
Sanacrop	Eucalyptus oil	19016714	1
Spangro 7.11.18	Eucalyptus oil	17001384	1
Spangro 7.11.18	Rosemary oil	17326702	1
Taoasis GmbH	Rosemary oil	130815-113178	1
Taoasis GmbH	Rosemary oil	3231016-115522	1
Taoasis GmbH	Eucalyptus oil	33364-110969	1
Taoasis GmbH	Eucalyptus oil	4563-10750	1
Taoasis GmbH	Eucalyptus oil	4563-8123A	1
Taoasis GmbH	Rosemary oil	7028-105285	1
Taoasis/Noweda	Rosemary oil	1921019-121067	1
Taoasis/Noweda	Rosemary oil	3231015-118416	1
Taoasis	Rosemary oil	121217-110772	1
Taoasis	Eucalyptus oil	125802-8125	1
Taoasis	Eucalyptus oil	125802-8443	1
Taoasis	Rosemary oil	130313-111912	1
Taoasis	Eucalyptus oil	2097-475	1
TAOASIS	Eucalyptus oil	2393	1
Taoasis	Eucalyptus oil	2478-6685	1
Taoasis	Rosemary oil	2517-7232	1
Taoasis	Rosemary oil	26057-118014	1
Taoasis	Rosemary oil	3231031-117639	1
Taoasis	Eucalyptus oil	502745-108325	1
Taoasis	Eucalyptus oil	521399-108557	1
Taoasis	Eucalyptus oil	527885-109905	1
Taoasis	Eucalyptus oil	53970-110969	1
Taoasis	Eucalyptus oil	543495-112704	1
Taoasis	Eucalyptus oil	557095-114030	1
Taoasis	Rosemary oil	6761-11499	1
Taoasis	Eucalyptus oil	7361-13371	1
Taoasis	Rosemary oil	8016-12554	1
Taoasis	Eucalyptus oil	8745-115428	1
Taoasis	Eucalyptus oil	8745-116747	1
Taoasis	Eucalyptus oil	A107371-6619	1
VDL 26.04.14 Preis 5,25	Eucalyptus oil		1
VDL;5,40EUR;11.04.15	Eucalyptus oil	14039625	1

- 295 813 spectra from 1324 *Apo-Ident* customers from a total of 52 441 batches from a further 342 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Eucalyptus oil / Rosmary oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Eucalyptus oil / Rosmary oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	870	0	67 629
Type B	0	750	0	110 563
Type C	0	1635	10	295 813

The substance/substance group *Eucalyptus oil / Rosmary oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.3103 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.2000 %)
Type C	100.0000 % (> 99.6875 %)	99.3921 % (> 99.2097 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Eucalyptus oil / Rosmary oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Cineole	25.64	–
Myrtle oil	27.49	–
Sage oil	28.77	–
Turpentine oil	28.98	–
Juniper wood oil	40.38	–
Cypress oil	40.65	–
Cajeput (essentiel oil)	42.41	–
Spruce needle oil	46.24	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the sub-

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

stance/substance group *Eucalyptus oil / Rosmary oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30875	30875	0.00	42.05
31110	31285	5.30	30.41
31284	31284	0.00	39.35
31285	31285	0.00	31.59
31298	31285	1.58	30.93
31311	31311	0.00	40.96
31314	31314	0.00	39.39
31527	31823	3.38	30.54
31822	31822	0.00	41.25
31823	31823	0.00	30.49
31864	31823	2.34	30.90
31865	31314	6.18	35.85
32686	32686	0.00	38.03
33277	31823	12.36	37.46
34523	31823	2.57	31.04
34614	34614	0.00	40.39
34759	31823	3.79	25.91
35139	35139	0.00	39.32
35553	35553	0.00	36.15

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Eugenol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31286-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Eugenol; Eugenolum

Special notes

When selecting the *Eugenol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Eugenol	5	3	16

Second-stage model

For differentiation of the substance/substance group *Eugenol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Eugenol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Eugenol	13401501	31286	40	1407436
Caelo	Eugenol	13401506	31397	40	20131213
Caelo	Eugenol	173534	33896	40	20180126*
Caelo	Eugenol	21002269	35720	50	20210803*
Fagron	Eugenol	16I12-B05-336284	34481	40	20161010

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 210 spectra of 5 reference samples from the substance/substance group *Eugenol*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 289 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Eugenol*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Eugenol	20001728	34987	40
Fagron	Eugenol	15H11-B03-322946	32731	40
Fagron	Eugenol	20K26-F02-376293	35266	40
Fagron	Eugenol	15H11-B03-322946	33220	40

- 111 153 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 30 spectra from 23 *Apo-Ident* customers from 16 batches from the substance/substance group *Eugenol*.

- Among them are spectra of independent samples from 16 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Eugenol	14165401	1
Caelo	Eugenol	14165403	1
Caelo	Eugenol	15255901	2
Caelo	Eugenol	15255904	2
Caelo	Eugenol	16034701	1
Caelo	Eugenol	16034703	3
Caelo	Eugenol	17353401	2
Caelo	Eugenol	17353403	3
Caelo	Eugenol	17353406	1
Caelo	Eugenol	1735401	1
Caelo	Eugenol	18147002	4
Caelo	Eugenol	19093201	5
Caelo	Eugenol	20001728003	1
Caelo	Eugenol	21002269003	1
Fagron	Eugenol	13H14-B40-286617	1
Speiko	Eugenol	1051	1

- 297 428 spectra from 1324 *Apo-Ident* customers from a total of 52 971 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Eugenol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Eugenol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	210	0	68 289
Type B	0	160	0	111 153
Type C	0	30	0	297 428

The substance/substance group *Eugenol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.1429 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6878 %)	100.0000 % (> 80.0000 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Eugenol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Clove oil	26.40	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Eugenol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31286	31286	0.00	33.91
31397	31286	1.61	35.62
33896	33896	0.00	34.61
34481	31286	3.28	35.51
35720	35720	0.00	35.60

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Gel Cordes®**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30632-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Gel Cordes®

Special notes

When selecting the *Gel Cordes®* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Gel Cordes®	6	3	45

Second-stage model

For differentiation of the substance/substance group *Gel Cordes®* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Gel Cordes®*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Ichthyol	Gel Cordes®	12A035	30632	40	1405096
Ichthyol	Gel Cordes®	15A099	31876	60	20150624
Ichthyol	Gel Cordes®	15A099	32910	40	20150624
Ichthyol	Gel Cordes®	15A099	32911	40	20150624
Ichthyol	Gel Cordes®	18A086	34677	40	20181101
Ichthyol	Gel Cordes®	19A0165	34842	40	20190917
Ichthyol	Gel Cordes®	20A0132	35108	30	20200728
Ichthyol	Gel Cordes®	22A0082	36382	40	20220628

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 330 spectra of 8 reference samples from the substance/substance group *Gel Cordes®*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 169 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 137 spectra of 4 reference samples from the substance/substance group *Gel Cordes®*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Ichthyol	Gel Cordes®	13A007	31083	40
Ichthyol	Gel Cordes®	17A047	33987	40
Ichthyol	Gel Cordes®	21A0128	35756	50
Ichthyol	Gel Cordes®	20A0132	35108†	7

- 111 176 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 264 spectra from 64 *Apo-Ident* customers from 51 batches from the substance/substance group *Gel Cordes®*.

- Among them are spectra of independent samples from 45 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
1xAnzag 2xJenne Ivhthyol	Gel Cordes®	31(17A047)	1
AHD	Gel Cordes®	16A169	1
Anzag/Ichthyol	Gel Cordes®	17A047	1
Anzag/Ichthyol	Gel Cordes®	17A237	1
Audor Pharma	Gel Cordes®	17A047	3
Caelo	Gel Cordes®	13A007	2
Caelo	Gel Cordes®	17A047	1
Caelo	Gel Cordes®	32(17A047)	1
Caelo	Gel Cordes®	42(17A237)	1
Caeolo	Gel Cordes®	14A017	1
Gehe	Gel Cordes®	17A237	1
Gehe	Gel Cordes®	21A0128	1
Ichthol/ gehe 12.09.16	Gel Cordes®	15a099	1
Ichthyol / Anzag	Gel Cordes®	1219Q-03685	1
Ichthyol / GEHE	Gel Cordes®	19A0165	2
Ichthyol /Anzag	Gel Cordes®	211029(21A0128)	1
Ichthyol /Anzag	Gel Cordes®	211227(21A0128)	1
Ichthyol /Anzag	Gel Cordes®	220210(21A0128)	1
Ichthyol /Anzag	Gel Cordes®	220307(21A0128)	1
Ichthyol /Anzag	Gel Cordes®	220722(21A0233)	1
Ichthyol /Anzag	Gel Cordes®	220826(21A0233)	1
Ichthyol /Anzag	Gel Cordes®	36(17A237)	1
Ichthyol /Anzag	Gel Cordes®	37(17A237)	1
Ichthyol /Anzag	Gel Cordes®	38(17A237)	1
Ichthyol /Anzag	Gel Cordes®	39(17A237)	1
Ichthyol /Anzag	Gel Cordes®	40(17A237)	1
Ichthyol /Anzag	Gel Cordes®	43(17A237)	1
Ichthyol /Anzag	Gel Cordes®	44(17A237)	1
Ichthyol /Anzag	Gel Cordes®	45(18A086)	1
Ichthyol /Anzag	Gel Cordes®	46(18A086)	1
Ichthyol /Anzag	Gel Cordes®	47(18A086)	1

continued on the next page

†These spectra were recorded from material of the same package as the corresponding calibration spectra (*Type A*). Hence, these spectra are not independent and are not of *Type B*.

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol /Anzag	Gel Cordes®	48(18A084)	1
Ichthyol /Anzag	Gel Cordes®	56(18A086)	1
Ichthyol /Anzag	Gel Cordes®	57(19A0165)	1
Ichthyol /Anzag	Gel Cordes®	58(20A0132)	1
Ichthyol /Anzag	Gel Cordes®	59(20A0132)	1
Ichthyol /Anzag	Gel Cordes®	60(20A0132)	1
Ichthyol /Anzag	Gel Cordes®	61(20A0132)	1
Ichthyol /Jenne	Gel Cordes®	220519(21A0233)	1
Ichthyol Gesellschaft	Gel Cordes®	17A047	1
Ichthyol Gesellschaft	Gel Cordes®	20A0132	1
Ichthyol Geselschaft Co...	Gel Cordes®	15A099	1
Ichthyol Geselschaft Co...	Gel Cordes®	17A047	2
Ichthyol Geselschaft Co...	Gel Cordes®	17A237	2
Ichthyol Geselschaft Co...	Gel Cordes®	18A086	1
Ichthyol/ Jenne	Gel Cordes®	18A086	2
Ichthyol/ Noweda	Gel Cordes®	17A237	1
Ichthyol/AHD	Gel Cordes®	17A047	1
Ichthyol/AHD	Gel Cordes®	18A086	4
Ichthyol/AHD	Gel Cordes®	19A0165	1
Ichthyol/AHD	Gel Cordes®	30(17A047)	1
Ichthyol/AHD	Gel Cordes®	33(17A237)	1
Ichthyol/AHD	Gel Cordes®	34(17A237)	1
Ichthyol/AHD	Gel Cordes®	35(17A237)	1
Ichthyol/Alkun	Gel Cordes®	17A047	1
Ichthyol/Alliance Healt...	Gel Cordes®	15A099	3
Ichthyol/Alliance	Gel Cordes®	15A099	1
Ichthyol/Alliance	Gel Cordes®	17A237	2
Ichthyol/Anzag	Gel Cordes®	12A035	2
Ichthyol/Gehe	Gel Cordes®	14A017	1
Ichthyol/Gehe	Gel Cordes®	15A099	1
Ichthyol/Gehe	Gel Cordes®	18A086	1
Ichthyol/Noweda	Gel Cordes®	17A047	1
Ichthyol/Noweda	Gel Cordes®	17A237	2
Ichthyol/Noweda	Gel Cordes®	18A086	1
Ichthyol/Phönix	Gel Cordes®	17A047	3
Ichthyol/Phönix	Gel Cordes®	17A237	1
Ichthyol/Phönix	Gel Cordes®	18A086	1
Ichthyol/Phönix	Gel Cordes®	19A0165	1
Ichthyol/Sana	Gel Cordes®	21A0233	1
Ichthyol/Sanacorp	Gel Cordes®	14A017	1
Ichthyol/Sanacorp	Gel Cordes®	16A169	1
Ichthyol/Sanacorp	Gel Cordes®	17A047	1
Ichthyol/Spangro	Gel Cordes®	16A169	1
Ichthyol	Gel Cordes®	14A017	2
Ichthyol	Gel Cordes®	15A099	29
Ichthyol	Gel Cordes®	16A169	13
ICHTHYOL	Gel Cordes®	16A169	1
IChthyol	Gel Cordes®	16A69	1
Ichthyol	Gel Cordes®	17A047	2
Ichthyol	Gel Cordes®	17A237	1
Ichthyol	Gel Cordes®	18A086	2
Ichthyol-Gesellschaft C...	Gel Cordes®	20A0132	1
Ichthyol-Gesellschaft C...	Gel Cordes®	13A007	1
Ichthyol-Gesellschaft C...	Gel Cordes®	18A086	1
Ichthyol-Gesellschaft C...	Gel Cordes®	18A086	1
Ichthyol-Gesellschaft C...	Gel Cordes®	20A0132	3
Ichthyol-Gesellschaft C...	Gel Cordes®	21A0128	4
Ichthyol-Gesellschaft/ ...	Gel Cordes®	17A237	3
ICHTHYOL-GESELLSCHAFT/G...	Gel Cordes®	21A0233	1
ICHTHYOL-GESELLSCHAFT/J...	Gel Cordes®	19A0165	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
ICHTHYOL-GESELLSCHAFT/J...	Gel Cordes®	21A0128	8
Ichthyol-Gesellschaft/N...	Gel Cordes®	15A099	2
ICHTHYOL-GESELLSCHAFT	Gel Cordes®	18A086	3
Ichthyol-Gesellschaft	Gel Cordes®	19A0165	1
ICHTHYOL-GESELLSCHAFT	Gel Cordes®	19A0165	33
ICHTHYOL-GESELLSCHAFT	Gel Cordes®	19A0265	1
ICHTHYOL-GESELLSCHAFT	Gel Cordes®	20A0132	27
Ichtyol Gesellschaft	Gel Cordes®	21A0233	1
Ichtyol	Gel Cordes®	14A017	2
Ichtyol	Gel Cordes®	718E-03685	1
Ichtyol-Gesellschaft	Gel Cordes®	15A099	1
Ichtyol-Gesellschaft	Gel Cordes®	17A047	1
Ichtyol-Gesellschaft	Gel Cordes®	17A237	4
Ichtyol-Gesellschaft	Gel Cordes®	18A086	2
Ichtyol-Gesellschaft	Gel Cordes®	19A0165	2
Ivhthyol/Phoenix	Gel Cordes®	17A047	1
Noweda/Ichthyol-Gesells...	Gel Cordes®	15A099	1
Noweda	Gel Cordes®	17A047	1
Noweda	Gel Cordes®	17A237	2
Noweda	Gel Cordes®	18A086	1
Noweda	Gel Cordes®	20A0132	1
Phoenix	Gel Cordes®	18A086	2
PHÖNIX	Gel Cordes®	17A237	2
Phönix	Gel Cordes®	18A086	1
Sanacorp	Gel Cordes®	20A0132	1
Spangro/Ichthyol-Gesell...	Gel Cordes®	14A017	3
Wolf Apotheke	Gel Cordes®	41(17A237)	1

- 297 194 spectra from 1324 *Apo-Ident* customers from a total of 52 936 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Gel Cordes®* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Gel Cordes®* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	330	0	68 169
Type B	0	130	7	111 176
Type C	0	264	0	297 194

The substance/substance group *Gel Cordes®* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.1818 %)
Type B	100.0000 % (> 99.9678 %)	94.8905 % (> 92.7007 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 97.7273 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Gel Cordes®* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Base cream, diluted	20.87	–
Glycolic acid 70%	30.02	–
Anionic hydrophilic cream with propyle...	35.15	–
Lotio Cordes®	40.51	–
Hydrophilic cream, non-ionic without p...	42.06	–
Non-ionic hydrous liniment SR/DAC (NRF...	44.72	–
Anionic hydrophilic cream SR (NRF p.27)	46.16	–
Sodium-(s)-lactate solution 50%	47.83	–
Anionic hydrophlic cream without prese...	48.77	–
Liquorice juice purified, diluted	49.62	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Gel Cordes®* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30632	30632	0.00	42.86
31876	30632	16.15	41.87
32910	30632	10.65	41.97
32911	30632	12.17	41.84
34677	30632	20.82	41.84
34842	30632	23.29	41.79
35108	30632	18.27	42.68
36382	30632	10.60	42.05

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Geranium oil, genuine**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30468-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Geranium oil, genuine; Oleum geranii verum

Special notes

When selecting the *Geranium oil, genuine* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Geranium oil, genuine	6	3	13

Second-stage model

For differentiation of the substance/substance group *Geranium oil, genuine* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Geranium oil, genuine*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Geranium oil, ge...	12354109	31193	40	1403533
Caelo	Geranium oil, ge...	15172205	31789	60	20150608
Caelo	Geranium oil, ge...	171503	33316	40	20170523*
Caelo	Geranium oil, ge...	190160	34646	40	20190117*
Caelo	Geranium oil, ge...	20004486002	35846	50	20210112
Caelo	Geranium oil, ge...	22000168	36158	40	20220124*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 270 spectra of 6 reference samples from the substance/substance group *Geranium oil, genuine*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 229 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Geranium oil, genuine*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Geranium oil, genuine	16070404	33438	40
Caelo	Geranium oil, genuine	180259	34053	40
Caelo	Geranium oil, genuine	193059	34995	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 38 spectra from 17 *Apo-Ident* customers from 14 batches from the substance/substance group *Geranium oil, genuine*.
- Among them are spectra of independent samples from 13 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Geranium oil, genuine	11275605	1
Caelo	Geranium oil, genuine	153670202	1
Caelo	Geranium oil, genuine	15370201	1
Caelo	Geranium oil, genuine	16070403	3
Caelo	Geranium oil, genuine	17150301	4
Caelo	Geranium oil, genuine	18025902	5
Caelo	Geranium oil, genuine	18025903	1
Caelo	Geranium oil, genuine	18025906	1
Caelo	Geranium oil, genuine	19016002	1
Caelo	Geranium oil, genuine	19016005	1
Caelo	Geranium oil, genuine	193059001	2
Caelo	Geranium oil, genuine	20004486002	3
Caelo	Geranium oil, genuine	35434343	1
Caesar & Loretz GmbH	Geranium oil, genuine	19016002	3
Caesar & Loretz GmbH	Geranium oil, genuine	193059001	4
Caesar & Loretz GmbH	Geranium oil, genuine	193059003	3
Caesar & Loretz GmbH	Geranium oil, genuine	20004486002	2
Fiebig	Geranium oil, genuine	193059003	1

- 297 420 spectra from 1324 *Apo-Ident* customers from a total of 52 973 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Geranium oil, genuine* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Geranium oil, genuine* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

	False positive	True positive	False negative	True negative
Type A	0	270	0	68 229
Type B	0	120	0	111 193
Type C	0	38	0	297 420

The substance/substance group *Geranium oil, genuine* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.7778 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6877 %)	100.0000 % (> 84.2105 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Geranium oil, genuine* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Rose oil (genuine / artificial)	26.96	–
Citronella oil	51.48	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Geranium oil, genuine* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31193	31193	0.00	51.17
31789	33316	3.26	50.69
33316	33316	0.00	52.39
34646	34646	0.00	53.80
35846	34646	6.26	53.31
36158	36158	0.00	55.88

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Glucose syrup**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30934-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Glucose syrup; Glucose syrup GE 40%; Glucosum liquidum

Special notes

When selecting the *Glucose syrup* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Glucose syrup	3	1	8

Second-stage model

For differentiation of the substance/substance group *Glucose syrup* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Glucose syrup*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Fagron	Glucose syrup	12I18-N11	30934	40	1403229
Fagron	Glucose syrup	14G16-T01-018036	31603	60	20150120
Fagron	Glucose syrup	14G16-T01-018036	32272	40	20150120
Fagron	Glucose syrup	16I02-T07-039136	33632	40	20161222

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 180 spectra of 4 reference samples from the substance/substance group *Glucose syrup*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 319 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Glucose syrup*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Fagron	Glucose syrup	16B02-T11-029595	32273	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 14 spectra from 13 *Apo-Ident* customers from 10 batches from the substance/substance group *Glucose syrup*.
- Among them are spectra of independent samples from 8 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Glucose syrup	16D02-T11-029595	1
Caelo	Glucose syrup	16I02-T07-039136	1
Fagron	Glucose syrup	10J25-T52-013485	1
Fagron	Glucose syrup	13D23-N02	1
Fagron	Glucose syrup	13G03-N01	1
Fagron	Glucose syrup	14G16-T01-018036	1
Fagron	Glucose syrup	14G16T01-018037	1
Fagron	Glucose syrup	14G16-T01-018038	1
Fagron	Glucose syrup	15H28-T01-025267	1
Fagron	Glucose syrup	16B02-T11-029595	2
Fagron	Glucose syrup	16I02-T07-039136	2
Phönix	Glucose syrup	13D23-N02	1

- 297 444 spectra from 1324 *Apo-Ident* customers from a total of 52 977 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Glucose syrup* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Glucose syrup* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	180	0	68 319
Type B	0	40	0	111 273
Type C	0	14	0	297 444

The substance/substance group *Glucose syrup* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.6667 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6881 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Glucose syrup* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Honey	16.93	–
Marshmallow syrup (conserved)	21.64	–
Ribwort plantain syrup (conserved)	23.48	–
Ipecacuanha syrup (NRF 19.1)	25.79	–
Sugar syrup DAB	30.22	–
Raspberry syrup (conserved)	30.84	–
Fennel honey (conserved)	34.00	–
Rose honey	34.29	–
Sorbitol, liquid (non crystallising)	34.44	–
Glycerine ointment (conserved)	44.23	–
Cherry syrup (conserved)	45.40	–
Sodium-(s)-lactate solution 50%	57.02	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Glucose syrup* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30934	30934	0.00	27.89
31603	30934	6.54	30.80
32272	30934	7.96	28.29
33632	30934	2.92	25.38

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Glycerine ointment (conserved)**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30986-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Glycerine ointment (conserved); Unguentum glycerini (konserviert)

Special notes

When selecting the *Glycerine ointment (conserved)* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Glycerine ointment (conserved)	5	3	14

Second-stage model

For differentiation of the substance/substance group *Glycerine ointment (conserved)* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Glycerine ointment (conserved)*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Glycerine ointme...	12288201	30986	40	20121017
Caelo	Glycerine ointme...	14031701	31296	40	1410452
Caelo	Glycerine ointme...	16192001	32589	40	20160627
Caelo	Glycerine ointme...	18286201	34685	40	20181108
Caelo	Glycerine ointme...	22000015002	36053	40	20220209

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 200 spectra of 5 reference samples from the substance/substance group *Glycerine ointment (conserved)*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 299 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Glycerine ointment (conserved)*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Glycerine ointment (conserved)	17049101	33240	40
Caelo	Glycerine ointment (conserved)	18095401	34206	40
Caelo	Glycerine ointment (conserved)	20002504	35101	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 36 spectra from 12 *Apo-Ident* customers from 16 batches from the substance/substance group *Glycerine ointment (conserved)*.
- Among them are spectra of independent samples from 14 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Glycerine ointment (conserved)	13250102	2
Caelo	Glycerine ointment (conserved)	14031701	1
Caelo	Glycerine ointment (conserved)	14183401	5
Caelo	Glycerine ointment (conserved)	15025101	3
Caelo	Glycerine ointment (conserved)	16021501	3
Caelo	Glycerine ointment (conserved)	16192001	2
Caelo	Glycerine ointment (conserved)	16192002	1
Caelo	Glycerine ointment (conserved)	17048101	1
Caelo	Glycerine ointment (conserved)	17049101	5
Caelo	Glycerine ointment (conserved)	17049102	1
Caelo	Glycerine ointment (conserved)	17242901	2
Caelo	Glycerine ointment (conserved)	18095401	4
Caelo	Glycerine ointment (conserved)	18095402	3
Caelo	Glycerine ointment (conserved)	18286202	1
Caelo	Glycerine ointment (conserved)	19108202	1
Caesar & Loretz GmbH	Glycerine ointment (conserved)	19292201	1

- 297 422 spectra from 1324 *Apo-Ident* customers from a total of 52 972 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Glycerine ointment (conserved)* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Glycerine ointment (conserved)* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	200	0	68 299
Type B	0	120	0	111 193
Type C	0	36	0	297 422

The substance/substance group *Glycerine ointment (conserved)* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6877 %)	100.0000 % (> 83.3333 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Glycerine ointment (conserved)* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Honey	31.72	–
Glycerol 85%	31.98	–
Rose honey	34.50	–
Glucose syrup	39.01	–
Ipecacuanha syrup (NRF 19.1)	51.72	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Glycerine ointment (conserved)* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30986	31296	10.95	27.66
31296	31296	0.00	28.37
32589	31296	9.75	25.63
34685	31296	9.74	27.89
36053	31296	5.49	27.64

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Glycerol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30189-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Glycerol; Glycerolum

Special notes

When selecting the *Glycerol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Glycerol	6	6	153

Second-stage model

For differentiation of the substance/substance group *Glycerol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Glycerol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Glycerol	12111504	30871	40	20120418
Caelo	Glycerol	13127603	31152	40	1405278
Caelo	Glycerol	13370502	31352	60	20131115
Caelo	Glycerol	162308	32325	40	20160809*
Caelo	Glycerol	162308	32693	40	20160809*
Caelo	Glycerol	171857	33703	40	20170724*
Caelo	Glycerol	171857	33708	40	20170724*
Caelo	Glycerol	191371	34636	40	20190612*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 340 spectra of 8 reference samples from the substance/substance group *Glycerol*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 159 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 240 spectra of 6 reference samples from the substance/substance group *Glycerol*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 6 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Glycerol	180984	34064	40
Caelo	Glycerol	183222	34327	40
Caelo	Glycerol	192428	34730	40
Caelo	Glycerol	20001472	35017	40
Caelo	Glycerol	21004174	36067	40
Caelo	Glycerol	22000861	36163	40

- 111 073 spectra from a total of 2660 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1699 spectra from 616 *Apo-Ident* customers from 160 batches from the substance/substance group *Glycerol*.

- Among them are spectra of independent samples from 147 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
01791469	Glycerol	16230804	1
AHD / Caesar & Loretz G...	Glycerol	20001051004	1
AHD	Glycerol	18126607	1
ALH	Glycerol	15406504	1
Alliance Health Care	Glycerol	20001051005	1
Alliance	Glycerol	20003598001	4
Anzag	Glycerol	13127610	2
apomix	Glycerol	13127608	1
Beiersdorf AG	Glycerol	15406501	1
Blue Cube Germany Asset...	Glycerol	3002JASL41	2
Bombastus	Glycerol	18098405	1
Caeasar & Loretz GmbH	Glycerol	20003598001	1
Caele/Gehe	Glycerol	20001051004	1
Caelo	Glycerol		1
Caelo	Glycerol	1004211590	1
Caelo	Glycerol	11061303	1
Caelo	Glycerol	11118104	1
Caelo	Glycerol	11217403	1
Caelo	Glycerol	11305101	1
Caelo	Glycerol	11305102	3
Caelo	Glycerol	119234301	1
Caelo	Glycerol	12014304	14
Caelo	Glycerol	12111503	4
Caelo	Glycerol	12111504	3
Caelo	Glycerol	12111505	1
Caelo	Glycerol	13002902	1
Caelo	Glycerol	13002903	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Glycerol	13002904	4
Caelo	Glycerol	13002907	1
Caelo	Glycerol	1300291	1
Caelo	Glycerol	13111403	1
Caelo	Glycerol	13127603	15
Caelo	Glycerol	13127604	10
Caelo	Glycerol	13127607	2
Caelo	Glycerol	13127608	3
Caelo	Glycerol	13127610	2
Caelo	Glycerol	1317604	1
Caelo	Glycerol	133370507	1
Caelo	Glycerol	13370501	2
Caelo	Glycerol	13370502	9
Caelo	Glycerol	13370503	15
Caelo	Glycerol	13370507	1
Caelo	Glycerol	13822208	1
Caelo	Glycerol	14074302	18
Caelo	Glycerol	14074303	6
Caelo	Glycerol	143709	1
Caelo	Glycerol	14373401	3
Caelo	Glycerol	14373403	22
Caelo	Glycerol	14373404	3
Caelo	Glycerol	14373409	21
Caelo	Glycerol	14373412	4
Caelo	Glycerol	14373413	33
Caelo	Glycerol	1437343	1
Caelo	Glycerol	1473403	1
Caelo	Glycerol	1473409	1
Caelo	Glycerol	1474303	1
Caelo	Glycerol	15283603	1
Caelo	Glycerol	15406501	24
Caelo	Glycerol	15406502	21
Caelo	Glycerol	15406503	37
Caelo	Glycerol	15406504	16
Caelo	Glycerol	1546501	1
Caelo	Glycerol	1546502	1
Caelo	Glycerol	16023503	8
Caelo	Glycerol	16023504	32
Caelo	Glycerol	16023506	46
Caelo	Glycerol	16023508	16
Caelo	Glycerol	1620804	1
Caelo	Glycerol	16230802	4
Caelo	Glycerol	16230804	68
Caelo	Glycerol	16230805	1
Caelo	Glycerol	1623504	1
Caelo	Glycerol	1623506	1
Caelo	Glycerol	16320804	1
Caelo	Glycerol	17037503	37
Caelo	Glycerol	17037504	18
Caelo	Glycerol	17041403	1
Caelo	Glycerol	171185703	1
Caelo	Glycerol	17185702	1
Caelo	Glycerol	17185703	53
Caelo	Glycerol	1718570318098405	1
Caelo	Glycerol	17185704	4
Caelo	Glycerol	17189703	1
Caelo	Glycerol	17292803	30
Caelo	Glycerol	17292804	3
Caelo	Glycerol	1791469	1
Caelo	Glycerol	18081504	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Glycerol	18096405	1
Caelo	Glycerol	18098405	69
Caelo	Glycerol	18098406	8
Caelo	Glycerol	18098408	1
Caelo	Glycerol	18098409	1
Caelo	Glycerol	18126602	70
Caelo	Glycerol	18126603	10
Caelo	Glycerol	18126605	65
Caelo	Glycerol	18126607	41
Caelo	Glycerol	18126609	5
Caelo	Glycerol	1826605	2
Caelo	Glycerol	18322202	39
Caelo	Glycerol	18322206	7
Caelo	Glycerol	18322208	6
Caelo	Glycerol	1898405	1
Caelo	Glycerol	19091803	1
Caelo	Glycerol	19137101	68
Caelo	Glycerol	1917101	1
Caelo	Glycerol	19234301	38
Caelo	Glycerol	19234302	15
Caelo	Glycerol	19234303	1
Caelo	Glycerol	192428002	65
Caelo	Glycerol	19248002	1
Caelo	Glycerol	193234301	1
Caelo	Glycerol	200001051004	1
Caelo	Glycerol	200003598002	1
Caelo	Glycerol	20001051002	3
Caelo	Glycerol	20001051004	47
Caelo	Glycerol	20001051005	15
Caelo	Glycerol	20001472001	32
Caelo	Glycerol	20001472002	12
Caelo	Glycerol	20001472003	1
Caelo	Glycerol	20003598001	31
Caelo	Glycerol	20003598002	15
Caelo	Glycerol	20003598003	1
Caelo	Glycerol	2001051004	1
Caelo	Glycerol	2061201	1
Caelo	Glycerol	21004174002	3
Caelo	Glycerol	2114Q1590	1
Caelo	Glycerol	22000861004	2
Caelo	Glycerol	22042004	1
Caelo	Glycerol	220622(21004174002)	1
Caelo	Glycerol	2713M1590	1
Caelo	Glycerol	2x19234301	1
Caelo	Glycerol	4031501	1
Caelo	Glycerol	510211590	1
Caelo	Glycerol	733514373412	1
Caesar & Lorenz GmbH	Glycerol	17292803	1
Caesar & Lorenz GmbH	Glycerol	19137101	1
Caesar & Lorenz GmbH	Glycerol	192428002	1
Caesar & Lorenz	Glycerol	13002904	1
Caesar & Loretz GmbH / ...	Glycerol	16023506	1
Caesar & Loretz GmbH / ...	Glycerol	19137101	1
Caesar & Loretz GmbH / ...	Glycerol	19234302	2
Caesar & Loretz GmbH Hi...	Glycerol	13127608	1
Caesar & Loretz GmbH Hi...	Glycerol	14074302	1
Caesar & Loretz GmbH Hi...	Glycerol	16023506	1
Caesar & Loretz GmbH/ A...	Glycerol	19137101	1
Caesar & Loretz GmbH/ G...	Glycerol	20001051004	1
Caesar & Loretz GmbH/ G...	Glycerol	20003598002	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/ J...	Glycerol	19234301	1
Caesar & Loretz GmbH/AHD	Glycerol	192428002	1
Caesar & Loretz GmbH/AHD	Glycerol	2000359801	1
Caesar & Loretz GmbH/AHD	Glycerol	22000861004	1
Caesar & Loretz GmbH/An...	Glycerol	20001051002	1
Caesar & Loretz GmbH/Fi...	Glycerol	18322202	1
Caesar & Loretz GmbH/Fi...	Glycerol	20003598001	1
Caesar & Loretz GmbH/Gehe	Glycerol	192428002	1
Caesar & Loretz GmbH/Gehe	Glycerol	20001051004	2
Caesar & Loretz GmbH/Gehe	Glycerol	20001472001	1
Caesar & Loretz GmbH/GEHE	Glycerol	20001472001	1
Caesar & Loretz GmbH/Gehe	Glycerol	20003598002	1
Caesar & Loretz GmbH/Gö...	Glycerol	19137101	2
Caesar & Loretz GmbH/Je...	Glycerol	19137101	1
Caesar & Loretz GmbH/Je...	Glycerol	192428002	5
Caesar & Loretz GmbH/Kehr	Glycerol	19137101	1
Caesar & Loretz GmbH/No...	Glycerol	20001051005	1
Caesar & Loretz GmbH/No...	Glycerol	20003598002	1
Caesar & Loretz GmbH/Phoe	Glycerol	19137101	1
Caesar & Loretz GmbH/Phoe	Glycerol	20003598002	3
Caesar & Loretz GmbH/Ph...	Glycerol	20001051004	1
Caesar & Loretz GmbH/Ph...	Glycerol	19234301	1
Caesar & Loretz GmbH/Ph...	Glycerol	20003598001	3
Caesar & Loretz GmbH/Sa...	Glycerol	20001472001	2
Caesar & Loretz GmbH	Glycerol	14373403	1
Caesar & Loretz GmbH	Glycerol	15406502	1
Caesar & Loretz GmbH	Glycerol	16230804	1
Caesar & Loretz GmbH	Glycerol	18098405	1
Caesar & Loretz GmbH	Glycerol	181226605	1
Caesar & Loretz GmbH	Glycerol	18126602	1
Caesar & Loretz GmbH	Glycerol	18126603	1
Caesar & Loretz GmbH	Glycerol	18126605	9
Caesar & Loretz GmbH	Glycerol	18126607	9
Caesar & Loretz GmbH	Glycerol	18126609	4
Caesar & Loretz GmbH	Glycerol	18322202	9
Caesar & Loretz GmbH	Glycerol	18322206	6
Caesar & Loretz GmbH	Glycerol	18322208	1
Caesar & Loretz GmbH	Glycerol	19137101	10
Caesar & Loretz GmbH	Glycerol	19137102	1
Caesar & Loretz GmbH	Glycerol	19234301	20
Caesar & Loretz GmbH	Glycerol	19234302	3
Caesar & Loretz GmbH	Glycerol	192428002	12
Caesar & Loretz GmbH	Glycerol	200010510004	1
Caesar & Loretz GmbH	Glycerol	20001051004	20
Caesar & Loretz GmbH	Glycerol	20001051005	4
Caesar & Loretz GmbH	Glycerol	20001472001	12
Caesar & Loretz GmbH	Glycerol	20001472002	1
Caesar & Loretz GmbH	Glycerol	20003598001	10
Caesar & Loretz GmbH	Glycerol	20003598002	7
Caesar & Loretz GmbH	Glycerol	20003598003	3
Caesar & Loretz GmbH	Glycerol	22000861004	3
Caesar & Loretz Hilden	Glycerol	18126607	1
Caesar & Loretz Hilden	Glycerol	19137101	1
Caesar & Loretz/Geilenk...	Glycerol	20001051004	1
Caesar & Loretz	Glycerol	20003598001	1
Caesar&Lorenz / Gehe	Glycerol	19137101	1
Caesar/Lorenz	Glycerol	13002904	2
Caleo/Gehe	Glycerol	17292803	1
Carl Roth GmbH & Co.KG ...	Glycerol	60291203	1
Carl Roth GmbH+Co.KG	Glycerol	509291466	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Carl Roth GmbH+Co.KG	Glycerol	60291202	1
Cealo / Gehe	Glycerol	18098405	1
Cealo	Glycerol	18126602	1
chemdicount	Glycerol	LOT01010121	2
Chemdiscount	Glycerol		1
Chemdiscount	Glycerol	4260344721306	1
Chemdiscount	Glycerol	91374122	1
Chemidiscount / WHC GmbH	Glycerol		1
chemsolute	Glycerol		1
Cremer Oleo GmbH Hambur...	Glycerol	62776	1
Dr. K. Holborn/Wepa	Glycerol		1
Dr. K. Hollborm & Söhne	Glycerol	1106	1
Dr.K.Hollborn&Söhne/Wepa	Glycerol		2
Euro OTC	Glycerol	15406503	1
Euro OTC	Glycerol	16023503	1
Euro OTC	Glycerol	16023506	1
Euro OTC	Glycerol	18098405	1
FABA	Glycerol	200404-2	1
Fagron	Glycerol	13002904	1
Fagron	Glycerol	13370503	1
Fagron	Glycerol	14074302	1
Fagron	Glycerol	14373409	2
Fagron	Glycerol	15406501	1
Fiebig	Glycerol	15406501	1
Fiebig	Glycerol	18126602	2
Fiebig	Glycerol	18126607	1
Fiebig	Glycerol	18322206	1
Forbury Direct Global G...	Glycerol	5032020	1
Gehe 16.12.14	Glycerol	13370503	1
Gehe amax	Glycerol	18126607	1
Gehe amax	Glycerol	20001051004	1
Gehe	Glycerol	12014304	1
Gehe	Glycerol	12111504	2
Gehe	Glycerol	13002904	1
Gehe	Glycerol	13127603	2
Gehe	Glycerol	13370502	1
Gehe	Glycerol	15406501	1
Gehe	Glycerol	16023504	1
GEHE	Glycerol	16023506	1
Gehe	Glycerol	17292803	1
GEHE	Glycerol	18098405	1
GEHE	Glycerol	18126602	1
Gehe	Glycerol	18322202	2
Gehe	Glycerol	20001472001	1
Herrlan-PSM/Phönix	Glycerol		2
Hollborn&Söhne/Phoenix	Glycerol		1
Ichthyol/Sanacorp	Glycerol	13002902	2
Ingo Steyer KG, D-217...	Glycerol		1
INTR/Phönix	Glycerol	16023506	1
Isolatech Langenfeld	Glycerol	E-GL-3V-6kg	1
Isolatech	Glycerol	AZ000841	1
Julius Hoesch	Glycerol	184829	1
Jürgen Boesecke GmbH	Glycerol	200400342	1
L12	Glycerol	18098405	1
Mea Vita	Glycerol	4057824967008	1
Merck	Glycerol	K50033528813	1
mercur oleo	Glycerol	9664/20-MH000993	1
Nachprüfung	Glycerol	123456	1
Noweda	Glycerol	14373403	1
Noweda	Glycerol	14373413	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Glycerol	16230802	1
Noweda	Glycerol	16230804	1
Noweda	Glycerol	17185703	1
Noweda	Glycerol	18126602	1
Noweda	Glycerol	18126603	3
Noweda	Glycerol	18126605	1
Noweda	Glycerol	18322202	1
Noweda	Glycerol	19137101	1
Noweda	Glycerol	19234301	1
Noweda	Glycerol	192428002	3
Olin Stade-Bützfleth	Glycerol	3002JASL41	1
Optim Barsilay	Glycerol	3002JAL41	1
Optim/ Olin	Glycerol	3002JASL41	1
Phoenix	Glycerol	16023504	2
phoenix	Glycerol	16230804	1
Phoenix	Glycerol	18098405	4
Phoenix	Glycerol	18322202	1
Phoenix	Glycerol	19234301	1
Phoenix	Glycerol	20003598002	1
Phönix 22.08.12	Glycerol	11305102	1
Phönix/EuRho	Glycerol	12111503	1
Phönix	Glycerol	13002904	2
Phönix	Glycerol	13127604	1
Phönix	Glycerol	13127610	1
Phönix	Glycerol	18126602	1
Phönix	Glycerol	192428002	1
Phönix	Glycerol	20001051004	2
Phönix	Glycerol	20001472001	1
Phönix	Glycerol	20003598001	1
Sanacorp	Glycerol	17292803	2
Sanacorp	Glycerol	18126602	1
Sanacorp	Glycerol	18126607	1
Shell	Glycerol		1
Smokeria SMTP GmbH	Glycerol	20-03-16-SM-VG-5	1
Spinnrad	Glycerol	22048041	1
VWR Chemicals	Glycerol	20A084103	1
VWR Chemicals	Glycerol	20a0841032	1
VWR Chemicals	Glycerol	20C104124	1
VWR Chemicals	Glycerol	20C1344102	1
VWR	Glycerol	20a084103	1
whc GmbH Phönix	Glycerol		1
WHC	Glycerol	91374122	1

- 295 759 spectra from 1324 *Apo-Ident* customers from a total of 52 833 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Glycerol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Glycerol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

	False positive	True positive	False negative	True negative
Type A	0	340	0	68 159
Type B	0	240	0	111 073
Type C	0	1697	2	295 759

The substance/substance group *Glycerol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.2353 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 97.5000 %)
Type C	100.0000 % (> 99.6875 %)	99.8823 % (> 99.7057 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Glycerol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Glycerol 85%	85.75	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Glycerol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30871	31152	4.03	91.14
31152	31152	0.00	93.39
31352	31152	4.51	85.61
32325	32325	0.00	115.11
32693	32693	0.00	127.05
33703	33703	0.00	116.32
33708	33708	0.00	120.63
34636	34636	0.00	115.79

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Glycerol 85%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30886-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Glycerol 85%; Glycerolum 85%

Special notes

When selecting the *Glycerol 85%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Glycerol 85%	11	36	918

Second-stage model

For differentiation of the substance/substance group *Glycerol 85%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Glycerol 85%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Glycerol 85%	12216606	30886	80	20120731
Caelo	Glycerol 85%	13356404	31360	60	20131112
Caelo	Glycerol 85%	13406202	31377	40	20131219
Caelo	Glycerol 85%	17197706	34031	40	AR-18-FG-009772-02
Caelo	Glycerol 85%	22002124	36568	40	20220829*
Euro OTC	Glycerol 85%	1409035-01	31588	60	AR-15-FG-007030-02
Euro OTC	Glycerol 85%	1506036	31719	60	0000010478
Euro OTC	Glycerol 85%	1509023	31737	60	20151005*
Euro OTC	Glycerol 85%	1601059	31956	60	20160225*
Euro OTC	Glycerol 85%	2011017	35136	40	20201208*
Fagron	Glycerol 85%	12H16-N04	30980	80	20120905

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 620 spectra of 11 reference samples from the substance/substance group *Glycerol 85%*. These samples are listed above in the *calibration samples* section. The reference samples come from 11 different batches.
- 67 879 spectra from a total of 1402 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 1630 spectra of 40 reference samples from the substance/substance group *Glycerol 85%*.
- Among them are spectra of independent samples from 36 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Glycerol 85%	20002102	36196	40
Caelo	Glycerol 85%	160637	32203	40
Caelo	Glycerol 85%	162153	32326	40
Caelo	Glycerol 85%	162189	32328	40
Caelo	Glycerol 85%	162978	32694	40
Caelo	Glycerol 85%	163550	33097	40
Caelo	Glycerol 85%	163472	33098	40
Caelo	Glycerol 85%	171577	33320	40
Caelo	Glycerol 85%	172155	33704	40
Caelo	Glycerol 85%	171977	33705	40
Caelo	Glycerol 85%	183270	34326	40
Caelo	Glycerol 85%	190112	34460	40
Caelo	Glycerol 85%	191883	34619	40
Caelo	Glycerol 85%	20001747	35021	40
Caelo	Glycerol 85%	20002233	35272	40
Caelo	Glycerol 85%	20001944	35275	40
Caelo	Glycerol 85%	21000360	35276	40
Caelo	Glycerol 85%	21001534	35730	50
Caelo	Glycerol 85%	21001879	35731	50
Caelo	Glycerol 85%	22000873	36305	40
Caelo	Glycerol 85%	22000889	36306	40
Caelo	Glycerol 85%	22000890	36307	40
Euro OTC	Glycerol 85%	1607037	32703	40
Euro OTC	Glycerol 85%	1610032	32828	40
Euro OTC	Glycerol 85%	1703003	33449	40
Euro OTC	Glycerol 85%	1708022	33661	40
Euro OTC	Glycerol 85%	1801025	33996	40
Euro OTC	Glycerol 85%	1804017	34091	40
Euro OTC	Glycerol 85%	1808009	34218	40
Euro OTC	Glycerol 85%	1901041	34426	40
Euro OTC	Glycerol 85%	1906019	34656	40
Euro OTC	Glycerol 85%	1910011	34748	40
Euro OTC	Glycerol 85%	2007039	35118	40
Euro OTC	Glycerol 85%	2109022	35898	50
Euro OTC	Glycerol 85%	2203036	36284	40
Euro OTC	Glycerol 85%	2207021	36562	40
Caelo	Glycerol 85%	160637	32314	40
Caelo	Glycerol 85%	171977	33706	40
Caelo	Glycerol 85%	171577	33709	40
Caelo	Glycerol 85%	183270	34745	40

- 109 683 spectra from a total of 2630 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 6687 spectra from 1171 *Apo-Ident* customers from 932 batches from the substance/substance group *Glycerol 85%*.

- Among them are spectra of independent samples from 916 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Glycerol 85%	13356404	1
040607	Glycerol 85%	40607	1
2959	Glycerol 85%	2959	1
A.H. 18.06.13 ek: 6,78EUR	Glycerol 85%	12273604	1
A.Hedinger/Sana	Glycerol 85%	40626	1
A.Hedinger/Sana	Glycerol 85%	40655	1
A.Hedinger/Sana	Glycerol 85%	40667	1
AEP/ Fischar	Glycerol 85%	5067011	1
AEP	Glycerol 85%	19124401	2
AHD / Hedinger	Glycerol 85%	40557	1
AHD / Hedinger	Glycerol 85%	40607	1
AHD/ Fischar	Glycerol 85%	5067081	1
AHD/Fischar	Glycerol 85%	5067091	1
AHD/Fischar	Glycerol 85%	5069011	1
Ahd/PharmachemPößneck	Glycerol 85%	13248201	1
AHD	Glycerol 85%	13406202	1
AHD	Glycerol 85%	14306203	1
AHD	Glycerol 85%	40642	1
AHD	Glycerol 85%	40647	1
AHD	Glycerol 85%	5060035	1
AHD	Glycerol 85%	5068081	1
AHD	Glycerol 85%	5068101	1
Ahrenshof GmbH	Glycerol 85%	EU649	1
ALH	Glycerol 85%	40599	1
Allianc. Healthc./Fischar	Glycerol 85%	5064091	1
Alliance / Hedinger	Glycerol 85%	40678	1
Alliance Health 24.06.2...	Glycerol 85%	5538401	1
Alliance Health 27.11.2...	Glycerol 85%		1
Alliance Healthcare/Fis...	Glycerol 85%	5063011	1
Alliance Healthcare	Glycerol 85%	13144605	1
Alliance Healthcare	Glycerol 85%	40655	1
Alliance Healthcare	Glycerol 85%	40678	1
Alliance Healthcare	Glycerol 85%	5066061	1
Alliance/ Henry Lamotte	Glycerol 85%	1000012233	1
Alliance/Lamotte	Glycerol 85%	1000013005	1
Alliance	Glycerol 85%	1808009-02	1
Allianz Healthcare	Glycerol 85%	1910011-01	1
Allianz Healthcare	Glycerol 85%	5069081	1
Alte Apotheke	Glycerol 85%	40599	2
Anzag 20.12.2012	Glycerol 85%	40467	2
Anzag 3.04.18	Glycerol 85%	40628	1
Anzag,7,17 Euro,16.1014	Glycerol 85%	13356405	1
Anzag,7,62EUR; 27.0415	Glycerol 85%	14306204	1
Anzag/ Fischar	Glycerol 85%	5068021	2
Anzag/ Hedinger	Glycerol 85%	40478	1
Anzag/ Hedinger	Glycerol 85%	40495	2
Anzag/	Glycerol 85%	12108201	1
Anzag	Glycerol 85%	1306016-02	1
Anzag	Glycerol 85%	2109022-01	1
Anzag	Glycerol 85%	40467	1
Anzag	Glycerol 85%	40471	1
Anzag	Glycerol 85%	40475	2
Anzag	Glycerol 85%	40579	1
Anzag	Glycerol 85%	40599	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag	Glycerol 85%	40607	2
Anzag	Glycerol 85%	40620	2
Anzag	Glycerol 85%	819409013	1
apo ident	Glycerol 85%	1801025-01	1
Apoident /Sanacorp	Glycerol 85%	180809-01	1
apo-ident	Glycerol 85%	1708022-01	2
apo-ident	Glycerol 85%	17088022-01	1
apo-ident	Glycerol 85%	1808009-02	1
apomix	Glycerol 85%	18253407	1
Au.HedingerGmbH&CoKG/Al...	Glycerol 85%	40626	1
Au.HedingerGmbH&CoKG/Al...	Glycerol 85%	40678	3
aug. hedinger GmbH & Co...	Glycerol 85%	40579	1
Aug. Hedinger GmbH & Co	Glycerol 85%	40519	1
Aug. Hedinger	Glycerol 85%	40566	2
Aug. Hedinger	Glycerol 85%	40586	1
Aug. Hedinger	Glycerol 85%	40607	1
August Hed./	Glycerol 85%	40678	4
August Hedinger/Gehe	Glycerol 85%	40667	3
August Hedinger/Jenne	Glycerol 85%	40678	1
August Hedinger/Jenne	Glycerol 85%	40690	2
August Hedinger/Jenne	Glycerol 85%	40708	1
August Hedinger	Glycerol 85%	40557	1
BambynekFiebig	Glycerol 85%	18000211	1
BambynekFiebig	Glycerol 85%	18004342	1
Bartel/Sanacorp	Glycerol 85%	40515	1
Bartel	Glycerol 85%	40475	1
Bartel	Glycerol 85%	40584	1
Beyers	Glycerol 85%	19002	1
Beyvers GmbH	Glycerol 85%	19001	1
Bombastus	Glycerol 85%	105698	1
Bombastus	Glycerol 85%	1502010-01	1
Bombastus	Glycerol 85%	15146303	1
Bombastus	Glycerol 85%	1607037-01	1
Bombastus	Glycerol 85%	1708022-01	4
Bombastus	Glycerol 85%	17157703	1
Bombastus	Glycerol 85%	18000211	6
Bombastus	Glycerol 85%	18000212	2
Bombastus	Glycerol 85%	18001893	4
Bombastus	Glycerol 85%	18001896	5
Bombastus	Glycerol 85%	18004342	8
Bombastus	Glycerol 85%	18004343	5
Bombastus	Glycerol 85%	18005462	10
Bombastus	Glycerol 85%	18005463	18
Bombastus	Glycerol 85%	1805463	1
Bombastus	Glycerol 85%	1808009-01	1
Bombastus	Glycerol 85%	19000626	1
Bombastus	Glycerol 85%	19000627	9
Bombastus	Glycerol 85%	19000628	10
Bombastus	Glycerol 85%	19004185P-191101-3	1
Bombastus	Glycerol 85%	19004186	11
Bombastus	Glycerol 85%	19004187	5
Bombastus	Glycerol 85%	1900627	2
Bombastus	Glycerol 85%	19006534	1
Bombastus	Glycerol 85%	19006535	6
Bombastus	Glycerol 85%	200000557	1
Bombastus	Glycerol 85%	20000556	1
Bombastus	Glycerol 85%	20000557	3
Bombastus	Glycerol 85%	20000558	6
Bombastus	Glycerol 85%	20001470	2
Bombastus	Glycerol 85%	20001471	7

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Glycerol 85%	20001473	13
Bombastus	Glycerol 85%	20001631	4
Bombastus	Glycerol 85%	20001632	7
Bombastus	Glycerol 85%	20001746	3
Bombastus	Glycerol 85%	20001747	6
Bombastus	Glycerol 85%	20001748	15
Bombastus	Glycerol 85%	20002101	3
Bombastus	Glycerol 85%	20002102	4
Bombastus	Glycerol 85%	2000558	1
Bombastus	Glycerol 85%	260914PAS01	1
Bombastus	Glycerol 85%	266037	1
Bombastus	Glycerol 85%	266584	1
Bombastus	Glycerol 85%	269070	2
Bombastus	Glycerol 85%	272305	6
Bombastus	Glycerol 85%	275075	2
Bombastus	Glycerol 85%	275076	1
Bombastus	Glycerol 85%	276850	2
Bombastus	Glycerol 85%	276852	3
Bombastus	Glycerol 85%	278655	1
Bombastus	Glycerol 85%	279852	4
Bombastus	Glycerol 85%	280855	1
Bombastus	Glycerol 85%	28111803	1
Bombastus	Glycerol 85%	2812731	1
Bombastus	Glycerol 85%	2823731	1
Bombastus	Glycerol 85%	282731	8
Bombastus	Glycerol 85%	283567	2
Bombastus	Glycerol 85%	284400	5
Bombastus	Glycerol 85%	284401	1
Bombastus	Glycerol 85%	285366	5
Bombastus	Glycerol 85%	287120	4
Bombastus	Glycerol 85%	287890	2
Bombastus	Glycerol 85%	289295	6
Bombastus	Glycerol 85%	289296	2
Bombastus	Glycerol 85%	290715	3
Bombastus	Glycerol 85%	291085	4
Bombastus	Glycerol 85%	291086	5
Bombastus	Glycerol 85%	292791	16
Bombastus	Glycerol 85%	293387	4
Bombastus	Glycerol 85%	294927	4
Bombastus	Glycerol 85%	295501	7
Bombastus	Glycerol 85%	295502	2
Bombastus	Glycerol 85%	296480	3
Bombastus	Glycerol 85%	296481	7
Bombastus	Glycerol 85%	297034	3
Bombastus	Glycerol 85%	298592	3
Bombastus	Glycerol 85%	298593	8
Bombastus	Glycerol 85%	298594	2
Bombastus	Glycerol 85%	300393	1
Bombastus	Glycerol 85%	300394	6
Bombastus	Glycerol 85%	300395	7
Bombastus	Glycerol 85%	301816	6
Bombastus	Glycerol 85%	301817	7
Bombastus	Glycerol 85%	301818	3
Bombastus	Glycerol 85%	302749	8
Bombastus	Glycerol 85%	302750	2
Bombastus	Glycerol 85%	302751	4
Bombastus	Glycerol 85%	305199	1
Bombastus	Glycerol 85%	305200	7
Bombastus	Glycerol 85%	305201	7
Bombastus	Glycerol 85%	306829	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Glycerol 85%	306830	11
Bombastus	Glycerol 85%	308737	4
Bombastus	Glycerol 85%	308738	7
Bombastus	Glycerol 85%	310592	12
Bombastus	Glycerol 85%	310593	8
Bombastus	Glycerol 85%	40215PJK01	1
Bombastus	Glycerol 85%	40635	1
Bombastus	Glycerol 85%	5065101	1
Bombastus	Glycerol 85%	5067091	1
Bombastus	Glycerol 85%	60081703	1
Bombastus	Glycerol 85%	6474	1
Bombastus	Glycerol 85%	74(20001631)	1
Bombastus	Glycerol 85%	ChB18000212	1
Bombstus	Glycerol 85%	296481	1
Caelo	Glycerol 85%		8
Caelo	Glycerol 85%	1000006424	1
Caelo	Glycerol 85%	1000007843	1
Caelo	Glycerol 85%	1043003	1
Caelo	Glycerol 85%	1113E-01589	1
Caelo	Glycerol 85%	112117302	1
Caelo	Glycerol 85%	11217302	1
Caelo	Glycerol 85%	11217303	1
Caelo	Glycerol 85%	11324201	3
Caelo	Glycerol 85%	11324202	2
Caelo	Glycerol 85%	11324208	1
Caelo	Glycerol 85%	11355301	1
Caelo	Glycerol 85%	12069601	1
Caelo	Glycerol 85%	12069603	1
Caelo	Glycerol 85%	12069604	1
Caelo	Glycerol 85%	12069605	1
Caelo	Glycerol 85%	12108201	19
Caelo	Glycerol 85%	12108206	1
Caelo	Glycerol 85%	1213E-01589	1
Caelo	Glycerol 85%	1215302	1
Caelo	Glycerol 85%	12216601	6
Caelo	Glycerol 85%	12216602	5
Caelo	Glycerol 85%	12216603	15
Caelo	Glycerol 85%	12216604	3
Caelo	Glycerol 85%	12216606	12
Caelo	Glycerol 85%	12273604	26
Caelo	Glycerol 85%	12278501	1
Caelo	Glycerol 85%	12278502	1
Caelo	Glycerol 85%	12278507	3
Caelo	Glycerol 85%	12278508	3
Caelo	Glycerol 85%	123142	2
Caelo	Glycerol 85%	123456	1
Caelo	Glycerol 85%	123464	2
Caelo	Glycerol 85%	1290317	1
Caelo	Glycerol 85%	1292201	1
Caelo	Glycerol 85%	13039202	6
Caelo	Glycerol 85%	13039203	19
Caelo	Glycerol 85%	13039204	23
Caelo	Glycerol 85%	13060001	4
Caelo	Glycerol 85%	13060002	2
Caelo	Glycerol 85%	13060006	2
Caelo	Glycerol 85%	13060007	4
Caelo	Glycerol 85%	1309202	1
Caelo	Glycerol 85%	1309203	1
Caelo	Glycerol 85%	1309204	1
Caelo	Glycerol 85%	13144604	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Glycerol 85%	13144605	19
Caelo	Glycerol 85%	13144606	6
Caelo	Glycerol 85%	13144607	21
Caelo	Glycerol 85%	13205003	1
Caelo	Glycerol 85%	13248201	13
Caelo	Glycerol 85%	13248204	2
Caelo	Glycerol 85%	13276024	1
Caelo	Glycerol 85%	1327603	1
Caelo	Glycerol 85%	13276201	2
Caelo	Glycerol 85%	13276202	1
Caelo	Glycerol 85%	13276203	17
Caelo	Glycerol 85%	13276204	11
Caelo	Glycerol 85%	13276205	21
Caelo	Glycerol 85%	13276206	1
Caelo	Glycerol 85%	13276208	3
Caelo	Glycerol 85%	13356402	1
Caelo	Glycerol 85%	13356403	4
Caelo	Glycerol 85%	13356404	10
Caelo	Glycerol 85%	13356405	12
Caelo	Glycerol 85%	13356406	13
Caelo	Glycerol 85%	13396407	1
Caelo	Glycerol 85%	13406202	9
Caelo	Glycerol 85%	13406203	1
Caelo	Glycerol 85%	13406204	6
Caelo	Glycerol 85%	13406205	4
Caelo	Glycerol 85%	135406204	1
Caelo	Glycerol 85%	140113PML02	1
Caelo	Glycerol 85%	1404024-01	1
Caelo	Glycerol 85%	1405021	1
Caelo	Glycerol 85%	14061701	1
Caelo	Glycerol 85%	1409035-01	2
Caelo	Glycerol 85%	14101304	1
Caelo	Glycerol 85%	14148103	5
Caelo	Glycerol 85%	14148104	3
Caelo	Glycerol 85%	14148105	1
Caelo	Glycerol 85%	14148106	2
Caelo	Glycerol 85%	14149403	6
Caelo	Glycerol 85%	14149404	11
Caelo	Glycerol 85%	14149406	13
Caelo	Glycerol 85%	14149409	1
Caelo	Glycerol 85%	14149410	21
Caelo	Glycerol 85%	14149411	15
Caelo	Glycerol 85%	141494o4	1
Caelo	Glycerol 85%	1418103	1
Caelo	Glycerol 85%	1418E-01589	1
Caelo	Glycerol 85%	1419411	1
Caelo	Glycerol 85%	14194911	1
Caelo	Glycerol 85%	14249301	4
Caelo	Glycerol 85%	14306202	1
Caelo	Glycerol 85%	14306203	18
Caelo	Glycerol 85%	14306204	13
Caelo	Glycerol 85%	14306205	8
Caelo	Glycerol 85%	14373412	1
Caelo	Glycerol 85%	15036901	1
Caelo	Glycerol 85%	15036902	10
Caelo	Glycerol 85%	15036903	15
Caelo	Glycerol 85%	15036904	20
Caelo	Glycerol 85%	15036905	2
Caelo	Glycerol 85%	15049801	3
Caelo	Glycerol 85%	15050101	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Glycerol 85%	15050102	8
Caelo	Glycerol 85%	1506036-01	1
Caelo	Glycerol 85%	15071703	1
Caelo	Glycerol 85%	1509023-01	2
Caelo	Glycerol 85%	15115005	4
Caelo	Glycerol 85%	15121803	1
Caelo	Glycerol 85%	1514604	1
Caelo	Glycerol 85%	15146301	6
Caelo	Glycerol 85%	15146303	1
Caelo	Glycerol 85%	15146304	2
Caelo	Glycerol 85%	15146305	4
Caelo	Glycerol 85%	15146307	1
Caelo	Glycerol 85%	15283503	2
Caelo	Glycerol 85%	15283504	1
Caelo	Glycerol 85%	15283505	1
Caelo	Glycerol 85%	15283506	5
Caelo	Glycerol 85%	1528503	1
Caelo	Glycerol 85%	1529201	1
Caelo	Glycerol 85%	1529202	1
Caelo	Glycerol 85%	15292201	19
Caelo	Glycerol 85%	15292202	18
Caelo	Glycerol 85%	15292203	21
Caelo	Glycerol 85%	15292204	33
Caelo	Glycerol 85%	15292205	24
Caelo	Glycerol 85%	1536902	1
Caelo	Glycerol 85%	15378201	1
Caelo	Glycerol 85%	153782019	1
Caelo	Glycerol 85%	15378202	16
Caelo	Glycerol 85%	153782021Flasche	1
Caelo	Glycerol 85%	15378203	17
Caelo	Glycerol 85%	153782032Flasche	1
Caelo	Glycerol 85%	15378205	2
Caelo	Glycerol 85%	15378209	3
Caelo	Glycerol 85%	15378210	2
Caelo	Glycerol 85%	15378212	1
Caelo	Glycerol 85%	15379201	7
Caelo	Glycerol 85%	15379207	4
Caelo	Glycerol 85%	15379208	4
Caelo	Glycerol 85%	15404502	1
Caelo	Glycerol 85%	15404503	2
Caelo	Glycerol 85%	15404504	9
Caelo	Glycerol 85%	15404505	4
Caelo	Glycerol 85%	15404511	1
Caelo	Glycerol 85%	1601059	1
Caelo	Glycerol 85%	1601059-01	10
Caelo	Glycerol 85%	160215301	1
Caelo	Glycerol 85%	16023504	1
Caelo	Glycerol 85%	16063701	30
Caelo	Glycerol 85%	16063702	28
Caelo	Glycerol 85%	160637025	1
Caelo	Glycerol 85%	16063706	3
Caelo	Glycerol 85%	16063707	4
Caelo	Glycerol 85%	16063714	1
Caelo	Glycerol 85%	1607037	1
Caelo	Glycerol 85%	1607037-01	1
Caelo	Glycerol 85%	161003201	2
Caelo	Glycerol 85%	1610032-01	11
Caelo	Glycerol 85%	161006201	1
Caelo	Glycerol 85%	16121301	1
Caelo	Glycerol 85%	16215301	21

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Glycerol 85%	16215302	26
Caelo	Glycerol 85%	16215303	34
Caelo	Glycerol 85%	16215304	1
Caelo	Glycerol 85%	16215308	1
Caelo	Glycerol 85%	16215309	1
Caelo	Glycerol 85%	16215310	4
Caelo	Glycerol 85%	1621806	1
Caelo	Glycerol 85%	16218901	17
Caelo	Glycerol 85%	16218902	8
Caelo	Glycerol 85%	16218903	1
Caelo	Glycerol 85%	16218906	9
Caelo	Glycerol 85%	16218907	2
Caelo	Glycerol 85%	1625303	1
Caelo	Glycerol 85%	1629706	1
Caelo	Glycerol 85%	16297802	2
Caelo	Glycerol 85%	16297803	23
Caelo	Glycerol 85%	16297806	63
Caelo	Glycerol 85%	16297806/P-12061721	1
Caelo	Glycerol 85%	16297808	4
Caelo	Glycerol 85%	16297809	2
Caelo	Glycerol 85%	1634702	1
Caelo	Glycerol 85%	16347202	10
Caelo	Glycerol 85%	16347203	3
Caelo	Glycerol 85%	16347205	1
Caelo	Glycerol 85%	16347206	6
Caelo	Glycerol 85%	16347208	22
Caelo	Glycerol 85%	16347209	6
Caelo	Glycerol 85%	163472202-20171106Ma	1
Caelo	Glycerol 85%	16355001	4
Caelo	Glycerol 85%	16355002	40
Caelo	Glycerol 85%	16355005	4
Caelo	Glycerol 85%	169215903	1
Caelo	Glycerol 85%	16963701	1
Caelo	Glycerol 85%	1697803	1
Caelo	Glycerol 85%	1703003-01	7
Caelo	Glycerol 85%	17061404	1
Caelo	Glycerol 85%	17070193/1	1
Caelo	Glycerol 85%	1708022-01	8
Caelo	Glycerol 85%	170822-01	1
Caelo	Glycerol 85%	171121G/17157702	1
Caelo	Glycerol 85%	17157702	95
Caelo	Glycerol 85%	171577020	1
Caelo	Glycerol 85%	17157704	1
Caelo	Glycerol 85%	17157707	1
Caelo	Glycerol 85%	1715772	1
Caelo	Glycerol 85%	17157911	1
Caelo	Glycerol 85%	17197701	4
Caelo	Glycerol 85%	17197702	2
Caelo	Glycerol 85%	17197705	1
Caelo	Glycerol 85%	17197706	15
Caelo	Glycerol 85%	17215501	55
Caelo	Glycerol 85%	17215502	7
Caelo	Glycerol 85%	17215503	2
Caelo	Glycerol 85%	17300301	1
Caelo	Glycerol 85%	17322101	58
Caelo	Glycerol 85%	17322104	69
Caelo	Glycerol 85%	17322105	7
Caelo	Glycerol 85%	17322107	16
Caelo	Glycerol 85%	17322108	5
Caelo	Glycerol 85%	17328201	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Glycerol 85%	17328202	2
Caelo	Glycerol 85%	1733322107	1
Caelo	Glycerol 85%	1738202	1
Caelo	Glycerol 85%	18000211	2
Caelo	Glycerol 85%	18001	1
Caelo	Glycerol 85%	18001896	1
Caelo	Glycerol 85%	18005463	3
Caelo	Glycerol 85%	1801025-01	1
Caelo	Glycerol 85%	180200	1
Caelo	Glycerol 85%	18020001	5
Caelo	Glycerol 85%	18020002	45
Caelo	Glycerol 85%	18020002-G20190115Ma	1
Caelo	Glycerol 85%	18020004	2
Caelo	Glycerol 85%	18020005	5
Caelo	Glycerol 85%	1802002	2
Caelo	Glycerol 85%	1804017-01	5
Caelo	Glycerol 85%	1808009-01	3
Caelo	Glycerol 85%	181108185	1
Caelo	Glycerol 85%	181108186	1
Caelo	Glycerol 85%	18153702	76
Caelo	Glycerol 85%	18153703	7
Caelo	Glycerol 85%	18153705	3
Caelo	Glycerol 85%	18153706	4
Caelo	Glycerol 85%	18177005	1
Caelo	Glycerol 85%	18240901	44
Caelo	Glycerol 85%	18240903	1
Caelo	Glycerol 85%	18253401	7
Caelo	Glycerol 85%	18253402	36
Caelo	Glycerol 85%	18253404	52
Caelo	Glycerol 85%	18253406	11
Caelo	Glycerol 85%	18253407	2
Caelo	Glycerol 85%	182553404	1
Caelo	Glycerol 85%	183270	1
Caelo	Glycerol 85%	18327001	3
Caelo	Glycerol 85%	18327003	20
Caelo	Glycerol 85%	18327004	1
Caelo	Glycerol 85%	18327008	1
Caelo	Glycerol 85%	19000628	2
Caelo	Glycerol 85%	190011201	1
Caelo	Glycerol 85%	1901041-01	1
Caelo	Glycerol 85%	19011201	36
Caelo	Glycerol 85%	19011202	5
Caelo	Glycerol 85%	19011203	37
Caelo	Glycerol 85%	19011204	6
Caelo	Glycerol 85%	19011208	15
Caelo	Glycerol 85%	19011209	12
Caelo	Glycerol 85%	19021301	1
Caelo	Glycerol 85%	19021809	1
Caelo	Glycerol 85%	1906019-01	1
Caelo	Glycerol 85%	1910011-01	1
Caelo	Glycerol 85%	1912440	1
Caelo	Glycerol 85%	19124401	49
Caelo	Glycerol 85%	19124402	6
Caelo	Glycerol 85%	19124404	5
Caelo	Glycerol 85%	191883001	9
Caelo	Glycerol 85%	191883002	18
Caelo	Glycerol 85%	19188301	34
Caelo	Glycerol 85%	19188302	2
Caelo	Glycerol 85%	19188303	1
Caelo	Glycerol 85%	19188304	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Glycerol 85%	19209501	53
Caelo	Glycerol 85%	19209502	8
Caelo	Glycerol 85%	19235701	6
Caelo	Glycerol 85%	192976002	7
Caelo	Glycerol 85%	192976003	1
Caelo	Glycerol 85%	192976004	32
Caelo	Glycerol 85%	192976005	3
Caelo	Glycerol 85%	192976006	47
Caelo	Glycerol 85%	192976007	2
Caelo	Glycerol 85%	2/AKD52	1
Caelo	Glycerol 85%	200001747001	1
Caelo	Glycerol 85%	200004043002	1
Caelo	Glycerol 85%	20000941002	3
Caelo	Glycerol 85%	20000941003	20
Caelo	Glycerol 85%	200010043002	1
Caelo	Glycerol 85%	2000104003	1
Caelo	Glycerol 85%	20001043	1
Caelo	Glycerol 85%	20001043002	12
Caelo	Glycerol 85%	20001043003	70
Caelo	Glycerol 85%	20001043004	4
Caelo	Glycerol 85%	20001043005	3
Caelo	Glycerol 85%	2000104303	1
Caelo	Glycerol 85%	2000174004	1
Caelo	Glycerol 85%	20001747001	13
Caelo	Glycerol 85%	20001747003	3
Caelo	Glycerol 85%	20001747004	37
Caelo	Glycerol 85%	20001747006	1
Caelo	Glycerol 85%	2000194004	1
Caelo	Glycerol 85%	20001944004	14
Caelo	Glycerol 85%	20004043002	10
Caelo	Glycerol 85%	20004043005	7
Caelo	Glycerol 85%	20004357001	17
Caelo	Glycerol 85%	20004357001/14042103	1
Caelo	Glycerol 85%	20004357002	2
Caelo	Glycerol 85%	20004357004	23
Caelo	Glycerol 85%	20004357005	5
Caelo	Glycerol 85%	2001043003	2
Caelo	Glycerol 85%	2001747004	2
Caelo	Glycerol 85%	2004357004	1
Caelo	Glycerol 85%	2004357005	1
Caelo	Glycerol 85%	20061210	1
Caelo	Glycerol 85%	2013A-01589	1
Caelo	Glycerol 85%	20211212-2	1
Caelo	Glycerol 85%	20H05-B01-202279	1
Caelo	Glycerol 85%	21000360003	13
Caelo	Glycerol 85%	21000360006	1
Caelo	Glycerol 85%	21001666002	1
Caelo	Glycerol 85%	21001879003	3
Caelo	Glycerol 85%	21001879004	5
Caelo	Glycerol 85%	21002666002	12
Caelo	Glycerol 85%	213E-01589	1
Caelo	Glycerol 85%	2200087303	1
Caelo	Glycerol 85%	23051813	1
Caelo	Glycerol 85%	23081201	1
Caelo	Glycerol 85%	24021402	1
Caelo	Glycerol 85%	2405211589	1
Caelo	Glycerol 85%	24101401	1
Caelo	Glycerol 85%	2413Q01589	1
Caelo	Glycerol 85%	2714M-01589	1
Caelo	Glycerol 85%	271511	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Glycerol 85%	2891	1
Caelo	Glycerol 85%	300395	1
Caelo	Glycerol 85%	30041804	1
Caelo	Glycerol 85%	30081805	1
Caelo	Glycerol 85%	3018I-01589	1
Caelo	Glycerol 85%	305200	3
Caelo	Glycerol 85%	310592	1
Caelo	Glycerol 85%	3121202	1
Caelo	Glycerol 85%	3311	1
Caelo	Glycerol 85%	40473	1
Caelo	Glycerol 85%	40480	2
Caelo	Glycerol 85%	40481	1
Caelo	Glycerol 85%	40483	1
Caelo	Glycerol 85%	40497	1
Caelo	Glycerol 85%	40507	2
Caelo	Glycerol 85%	40515	2
Caelo	Glycerol 85%	40524	2
Caelo	Glycerol 85%	40529	1
Caelo	Glycerol 85%	40542	4
Caelo	Glycerol 85%	40548	2
Caelo	Glycerol 85%	40556	1
Caelo	Glycerol 85%	40566	3
Caelo	Glycerol 85%	40567	1
Caelo	Glycerol 85%	40598	1
Caelo	Glycerol 85%	40599	2
Caelo	Glycerol 85%	40607	2
Caelo	Glycerol 85%	40612	3
Caelo	Glycerol 85%	40618	1
Caelo	Glycerol 85%	40625	1
Caelo	Glycerol 85%	40626	1
Caelo	Glycerol 85%	40629	1
Caelo	Glycerol 85%	40635	1
Caelo	Glycerol 85%	40641	1
Caelo	Glycerol 85%	40642	1
Caelo	Glycerol 85%	40646	1
Caelo	Glycerol 85%	40647	1
Caelo	Glycerol 85%	40649	1
Caelo	Glycerol 85%	40652	2
Caelo	Glycerol 85%	40655	7
Caelo	Glycerol 85%	40670	1
Caelo	Glycerol 85%	40673	1
Caelo	Glycerol 85%	40678	2
Caelo	Glycerol 85%	40680	1
Caelo	Glycerol 85%	4121702	1
Caelo	Glycerol 85%	4617M-01589	1
Caelo	Glycerol 85%	465911	1
Caelo	Glycerol 85%	4711A-01589	1
Caelo	Glycerol 85%	4717A-01589	1
Caelo	Glycerol 85%	5015Q-01589	1
Caelo	Glycerol 85%	5051501	1
Caelo	Glycerol 85%	5060012	1
Caelo	Glycerol 85%	5060032	2
Caelo	Glycerol 85%	506012	1
Caelo	Glycerol 85%	5062012	4
Caelo	Glycerol 85%	5062052	1
Caelo	Glycerol 85%	5062111	1
Caelo	Glycerol 85%	5062121	1
Caelo	Glycerol 85%	5063111	2
Caelo	Glycerol 85%	5064021	2
Caelo	Glycerol 85%	5064091	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Glycerol 85%	5065061	1
Caelo	Glycerol 85%	5065081	1
Caelo	Glycerol 85%	5065111	2
Caelo	Glycerol 85%	5066071	1
Caelo	Glycerol 85%	5066081	3
Caelo	Glycerol 85%	5066101	3
Caelo	Glycerol 85%	5066111	4
Caelo	Glycerol 85%	5067011	2
Caelo	Glycerol 85%	5067031	1
Caelo	Glycerol 85%	5067061	1
Caelo	Glycerol 85%	5067081	2
Caelo	Glycerol 85%	5067111	2
Caelo	Glycerol 85%	5068012	2
Caelo	Glycerol 85%	5068021	1
Caelo	Glycerol 85%	5068031	2
Caelo	Glycerol 85%	5068081	1
Caelo	Glycerol 85%	5068101	1
Caelo	Glycerol 85%	5069051	1
Caelo	Glycerol 85%	5x12273604	1
Caelo	Glycerol 85%	5x13039203	1
Caelo	Glycerol 85%	607211589	1
Caelo	Glycerol 85%	613Q-01589	1
Caelo	Glycerol 85%	703003-01	1
Caelo	Glycerol 85%	70913Gly	1
Caelo	Glycerol 85%	73/AKD2	1
Caelo	Glycerol 85%	7406HH7011	1
Caelo	Glycerol 85%	8004808001	1
Caelo	Glycerol 85%	8121402	1
Caelo	Glycerol 85%	B-19188301	1
Caelo	Glycerol 85%	BE-08675/37460	1
Caelo	Glycerol 85%	CHB17328201	1
Caelo	Glycerol 85%	G-080220-1	1
Caelo	Glycerol 85%	nnnnnn	1
Caelo	Glycerol 85%	P136/14	1
Caelo	Glycerol 85%	P4114A-01589	1
Caeol/ Noweda	Glycerol 85%	15378203	1
Caeol/Phoenix	Glycerol 85%	15292203	1
Caeol/Phönix	Glycerol 85%	16215303	1
Caeol/Phönix	Glycerol 85%	16297806	1
Caeolo/Gehe	Glycerol 85%	16297802	3
Caesar & Loretz GmbH / ...	Glycerol 85%	20001944004	1
Caesar & Loretz GmbH / ...	Glycerol 85%	20000941003	1
Caesar & Loretz GmbH / ...	Glycerol 85%	19011203	1
Caesar & Loretz GmbH / ...	Glycerol 85%	20001043004	1
Caesar & Loretz GmbH / ...	Glycerol 85%	18153702	1
Caesar & Loretz GmbH / ...	Glycerol 85%	18253404	1
Caesar & Loretz GmbH / ...	Glycerol 85%	19011208	1
Caesar & Loretz GmbH / ...	Glycerol 85%	192976006	1
Caesar & Loretz GmbH / ...	Glycerol 85%	5060062	1
Caesar & Loretz GmbH / ...	Glycerol 85%	192976006	1
Caesar & Loretz GmbH / ...	Glycerol 85%	19209501	1
Caesar & Loretz GmbH /N...	Glycerol 85%	192976004	1
Caesar & Loretz GmbH An...	Glycerol 85%	19124401	1
Caesar & Loretz GmbH Hi...	Glycerol 85%	13144607	1
Caesar & Loretz GmbH Hi...	Glycerol 85%	15292204	1
Caesar & Loretz GmbH Hi...	Glycerol 85%	16063702	1
Caesar & Loretz GmbH Ph...	Glycerol 85%	19124401	1
Caesar & Loretz GmbH/ F...	Glycerol 85%	20004357001	1
Caesar & Loretz GmbH/ G...	Glycerol 85%	192976006	1
Caesar & Loretz GmbH/ G...	Glycerol 85%	20001043003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/ J...	Glycerol 85%	20001043003	1
Caesar & Loretz GmbH/ J...	Glycerol 85%	20001747004	1
Caesar & Loretz GmbH/ K...	Glycerol 85%	19209501	1
Caesar & Loretz GmbH/ P...	Glycerol 85%	191883002	1
Caesar & Loretz GmbH/ S...	Glycerol 85%	21002666002	3
Caesar & Loretz GmbH/AEP	Glycerol 85%	20000941003	1
Caesar & Loretz GmbH/AHD	Glycerol 85%	19188304	1
Caesar & Loretz GmbH/Al...	Glycerol 85%	21001879003	1
Caesar & Loretz GmbH/Gehe	Glycerol 85%	19209501	1
Caesar & Loretz GmbH/Gehe	Glycerol 85%	20000941003	1
Caesar & Loretz GmbH/GEHE	Glycerol 85%	20001747004	1
Caesar & Loretz GmbH/Gehe	Glycerol 85%	20004043005	1
Caesar & Loretz GmbH/Gehe	Glycerol 85%	20004357004	1
Caesar & Loretz GmbH/Gehe	Glycerol 85%	21001879003	1
Caesar & Loretz GmbH/Ge...	Glycerol 85%	200010430003	1
Caesar & Loretz GmbH/Ge...	Glycerol 85%	19011203	1
Caesar & Loretz GmbH'/G...	Glycerol 85%	18240901	1
Caesar & Loretz GmbH/Je...	Glycerol 85%	20001043003	2
Caesar & Loretz GmbH/Je...	Glycerol 85%	19209501	3
Caesar & Loretz GmbH/Je...	Glycerol 85%	40673	1
Caesar & Loretz GmbH/Kehr	Glycerol 85%	18240901	1
Caesar & Loretz GmbH/No...	Glycerol 85%	18240903	1
Caesar & Loretz GmbH/No...	Glycerol 85%	19011201	1
Caesar & Loretz GmbH/No...	Glycerol 85%	19011209	1
Caesar & Loretz GmbH/P	Glycerol 85%	192976004	1
Caesar & Loretz GmbH/Ph...	Glycerol 85%	19011201	1
Caesar & Loretz GmbH/Ph...	Glycerol 85%	19124401	1
Caesar & Loretz GmbH/Ph...	Glycerol 85%	19209501	1
Caesar & Loretz GmbH/Ph...	Glycerol 85%	20001043003	1
Caesar & Loretz GmbH/Ph...	Glycerol 85%	20001944004	1
Caesar & Loretz GmbH/Ph...	Glycerol 85%	20004357001	2
Caesar & Loretz GmbH/Sana	Glycerol 85%	1929760	1
Caesar & Loretz GmbH/Sana	Glycerol 85%	20004357004	1
Caesar & Loretz GmbH/Sa...	Glycerol 85%	18253402	1
Caesar & Loretz GmbH/Sa...	Glycerol 85%	19011208	1
Caesar & Loretz GmbH/Sa...	Glycerol 85%	19124401	1
Caesar & Loretz GmbH/sa...	Glycerol 85%	192976	1
Caesar & Loretz GmbH/Sa...	Glycerol 85%	20000941003	1
Caesar & Loretz GmbH/Sa...	Glycerol 85%	20001043003	2
Caesar & Loretz GmbH/Sa...	Glycerol 85%	20004357001	1
Caesar & Loretz GmbH/Sp...	Glycerol 85%	18253402	1
Caesar & Loretz GmbH	Glycerol 85%	12108201	1
Caesar & Loretz GmbH	Glycerol 85%	12216603	1
Caesar & Loretz GmbH	Glycerol 85%	13144606	1
Caesar & Loretz GmbH	Glycerol 85%	17157702	1
Caesar & Loretz GmbH	Glycerol 85%	18020002	1
Caesar & Loretz GmbH	Glycerol 85%	18153702	3
Caesar & Loretz GmbH	Glycerol 85%	18153703	1
Caesar & Loretz GmbH'	Glycerol 85%	18153705	2
Caesar & Loretz GmbH	Glycerol 85%	18240901	1
Caesar & Loretz GmbH'	Glycerol 85%	18240901	3
Caesar & Loretz GmbH	Glycerol 85%	18240902	1
Caesar & Loretz GmbH	Glycerol 85%	18240903	1
Caesar & Loretz GmbH	Glycerol 85%	18253401	2
Caesar & Loretz GmbH	Glycerol 85%	18253402	3
Caesar & Loretz GmbH	Glycerol 85%	18253404	10
Caesar & Loretz GmbH	Glycerol 85%	18327005	1
Caesar & Loretz GmbH	Glycerol 85%	18327008	1
Caesar & Loretz GmbH	Glycerol 85%	19004186	1
Caesar & Loretz GmbH	Glycerol 85%	19011201	9

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Glycerol 85%	19011202	2
Caesar & Loretz GmbH	Glycerol 85%	19011203	7
Caesar & Loretz GmbH	Glycerol 85%	19011204	2
Caesar & Loretz GmbH	Glycerol 85%	19011208	7
Caesar & Loretz GmbH	Glycerol 85%	19011209	3
Caesar & Loretz GmbH	Glycerol 85%	19124401	9
Caesar & Loretz GmbH	Glycerol 85%	19124402	2
Caesar & Loretz GmbH	Glycerol 85%	191883002	4
Caesar & Loretz GmbH'	Glycerol 85%	191883002	1
Caesar & Loretz GmbH'	Glycerol 85%	19188301	2
Caesar & Loretz GmbH	Glycerol 85%	19188302	1
Caesar & Loretz GmbH	Glycerol 85%	19188304	2
Caesar & Loretz GmbH	Glycerol 85%	19209501	16
Caesar & Loretz GmbH	Glycerol 85%	19235701	1
Caesar & Loretz GmbH	Glycerol 85%	192976002	3
Caesar & Loretz GmbH	Glycerol 85%	192976004	6
Caesar & Loretz GmbH	Glycerol 85%	192976006	10
Caesar & Loretz GmbH	Glycerol 85%	20000941002	3
Caesar & Loretz GmbH'	Glycerol 85%	20000941002	1
Caesar & Loretz GmbH	Glycerol 85%	20000941003	11
Caesar & Loretz GmbH	Glycerol 85%	2000104003	1
Caesar & Loretz GmbH	Glycerol 85%	20001043002	1
Caesar & Loretz GmbH	Glycerol 85%	20001043003	22
Caesar & Loretz GmbH	Glycerol 85%	20001043004	1
Caesar & Loretz GmbH	Glycerol 85%	20001746	1
Caesar & Loretz GmbH	Glycerol 85%	20001747004	13
CAESAR & LORETZ GMBH	Glycerol 85%	20001747004	1
Caesar & Loretz GmbH	Glycerol 85%	20001944004	4
Caesar & Loretz GmbH	Glycerol 85%	20004043002	4
Caesar & Loretz GmbH	Glycerol 85%	20004043005	1
Caesar & Loretz GmbH	Glycerol 85%	20004357001	7
Caesar & Loretz GmbH	Glycerol 85%	20004357004	7
Caesar & Loretz GmbH	Glycerol 85%	21000360003	4
Caesar & Loretz GmbH	Glycerol 85%	21001879003	3
Caesar & Loretz GmbH	Glycerol 85%	21001879004	1
Caesar & Loretz GmbH	Glycerol 85%	21002666002	4
Caesar & Loretz GmbH	Glycerol 85%	40695	1
Caesar & Loretz GmbH	Glycerol 85%	5060035	1
Caesar & Loretz Hilden/...	Glycerol 85%	191883002	1
Caesar & Loretz/Geilenk...	Glycerol 85%	20004043002	1
Caesar & Loretz/Geilenk...	Glycerol 85%	20004043005	1
Caesar & Loretz/Noweda	Glycerol 85%	15379208	1
Caesar & Loretz	Glycerol 85%	16215303	1
Caesar & Loretz	Glycerol 85%	17322107	1
Caesar und Loretz GmbH	Glycerol 85%	17157702	1
Caesar&Lorenz	Glycerol 85%	20001747004	1
Caesar&Loretz GmbH	Glycerol 85%	13406202	2
Caesar&Loretz/Noweda	Glycerol 85%	16218906	2
Caesar/Loretz	Glycerol 85%	18153702	1
Caesar/Noweda	Glycerol 85%	2611I-01589	1
Caleo/ Noweda	Glycerol 85%	17322104	1
Caleo/No	Glycerol 85%	17322107	1
Caleo/No	Glycerol 85%	19011203	1
Caleo/No	Glycerol 85%	19124401	1
Caleo/PH	Glycerol 85%	19011201	1
Caleo/ph	Glycerol 85%	20001043003	1
Caleo/Phönix	Glycerol 85%	16355002	2
Caleo	Glycerol 85%	15036903	1
Caleo	Glycerol 85%	15283503	1
Caleo	Glycerol 85%	20000941002	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Calo/Phönix	Glycerol 85%	16297802	1
calo	Glycerol 85%	17322101	1
Cealo/ AHD	Glycerol 85%	16215303	1
Cealo/Noweda	Glycerol 85%	17322108	2
Cealo/Sanacorp	Glycerol 85%	19011207	1
Cealo	Glycerol 85%	13276205	1
Cealo	Glycerol 85%	16215301	1
Cealo	Glycerol 85%	20000941002	1
Cordes/Noweda	Glycerol 85%	1627803	1
Delta	Glycerol 85%	310593	1
Ebert & Jacobi	Glycerol 85%	5065061	1
Ebert & Jacobi	Glycerol 85%	5066011	1
Eigenherstellung	Glycerol 85%	15092085	1
Eigenherstellung	Glycerol 85%	29062085	1
Eigenherstellung	Glycerol 85%	295501	1
Eigenherstellung	Glycerol 85%	8022185	1
EJ/Hedinger	Glycerol 85%	40652	1
Eu Rho	Glycerol 85%	1910011-01	1
Eu Rho	Glycerol 85%	40683	1
Eu Rho	Glycerol 85%	40690	1
EuRho / Phoenix	Glycerol 85%	1610032-01	1
EuRho /Gehe	Glycerol 85%	1409035-01	1
EuRho /Gehe	Glycerol 85%	1607037-01	1
EuRho- Nowewda	Glycerol 85%	1906019-01	1
Eurho/Phoenix	Glycerol 85%	1906019-01	1
EuRho/Phönix	Glycerol 85%	1509023-01	2
EuRho	Glycerol 85%	1201038-01	1
EuRho	Glycerol 85%	1301025-01	2
EuRho	Glycerol 85%	1506036-01	1
eurho	Glycerol 85%	1703003-01	3
EuRho	Glycerol 85%	1708022-01	1
eurho	Glycerol 85%	1801025-01	4
EuRho	Glycerol 85%	1804017-01	1
EuRho	Glycerol 85%	1808009-02	1
EuRho	Glycerol 85%	1906019-01	1
EuRho	Glycerol 85%	201101701	1
eurho	Glycerol 85%	287120	1
Euro / AHD	Glycerol 85%	1901041-01	1
Euro /Anzag	Glycerol 85%	1808009-01	2
Euro Gehe	Glycerol 85%	1703003-01	1
Euro OTC	Glycerol 85%	10022015C	1
Euro OTC	Glycerol 85%	10112014D	1
Euro OTC	Glycerol 85%	1108032	1
Euro OTC	Glycerol 85%	1108032-01	5
Euro OTC	Glycerol 85%	120103801	1
Euro OTC	Glycerol 85%	1201038-01	6
Euro OTC	Glycerol 85%	1210047-01	8
Euro OTC	Glycerol 85%	12o1038-01	1
Euro OTC	Glycerol 85%	1301025-01	8
Euro OTC	Glycerol 85%	1301025-02	2
Euro OTC	Glycerol 85%	1306016-01	3
Euro OTC	Glycerol 85%	1306016-02	7
Euro OTC	Glycerol 85%	1401009	1
Euro OTC	Glycerol 85%	1401009-01	7
Euro OTC	Glycerol 85%	1403006-01	8
Euro OTC	Glycerol 85%	140502101	2
Euro OTC	Glycerol 85%	1405021-01	4
Euro OTC	Glycerol 85%	1405021-02	9
Euro OTC	Glycerol 85%	140903501	1
Euro OTC	Glycerol 85%	1409035-01	19

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Glycerol 85%	14380504	1
Euro OTC	Glycerol 85%	1502010-01	17
Euro OTC	Glycerol 85%	1506036-01	19
Euro OTC	Glycerol 85%	150902	1
Euro OTC	Glycerol 85%	1509023-01	24
Euro OTC	Glycerol 85%	151690	3
Euro OTC	Glycerol 85%	160105	1
Euro OTC	Glycerol 85%	160105901	2
Euro OTC	Glycerol 85%	1601059-01	40
Euro OTC	Glycerol 85%	160703	1
Euro OTC	Glycerol 85%	1607037	1
Euro OTC	Glycerol 85%	160703701	3
Euro OTC	Glycerol 85%	1607037-01	30
Euro OTC	Glycerol 85%	161002-01	1
Euro OTC	Glycerol 85%	161003201	1
Euro OTC	Glycerol 85%	1610032-01	54
Euro OTC	Glycerol 85%	1610032-1	1
Euro OTC	Glycerol 85%	16215302	1
Euro OTC	Glycerol 85%	16297806	1
Euro OTC	Glycerol 85%	16355002	1
Euro OTC	Glycerol 85%	1703001-01	1
Euro OTC	Glycerol 85%	1703003	2
Euro OTC	Glycerol 85%	170300301	3
Euro OTC	Glycerol 85%	1703003-01	63
Euro OTC	Glycerol 85%	170509G/1607037-01	1
Euro OTC	Glycerol 85%	170802201	1
Euro OTC	Glycerol 85%	1708022-01	45
Euro OTC	Glycerol 85%	17080822-01	1
Euro OTC	Glycerol 85%	173003-01	1
Euro OTC	Glycerol 85%	18000211	1
Euro OTC	Glycerol 85%	18001025-01	1
Euro OTC	Glycerol 85%	18004017-01	1
Euro OTC	Glycerol 85%	180102501	6
Euro OTC	Glycerol 85%	1801025-01	47
Euro OTC	Glycerol 85%	1801-1025-01	1
Euro OTC	Glycerol 85%	18020005	1
Euro OTC	Glycerol 85%	1802009-02	1
Euro OTC	Glycerol 85%	1804017	2
Euro OTC	Glycerol 85%	180401701	5
Euro OTC	Glycerol 85%	1804017-01	57
Euro OTC	Glycerol 85%	180407-01	1
Euro OTC	Glycerol 85%	18080009-02	1
Euro OTC	Glycerol 85%	1808009	1
Euro OTC	Glycerol 85%	180800901	1
Euro OTC	Glycerol 85%	1808009-01	25
Euro OTC	Glycerol 85%	1808009-02	45
Euro OTC	Glycerol 85%	1808009-1	1
Euro OTC	Glycerol 85%	18080092	1
Euro OTC	Glycerol 85%	1868009-02	1
Euro OTC	Glycerol 85%	190104101	2
Euro OTC	Glycerol 85%	1901041-01	18
Euro OTC	Glycerol 85%	1906018-01	1
Euro OTC	Glycerol 85%	1906019	2
Euro OTC	Glycerol 85%	190601901	3
Euro OTC	Glycerol 85%	1906019-01	33
Euro OTC	Glycerol 85%	1906019-1	1
Euro OTC	Glycerol 85%	191001-01	1
Euro OTC	Glycerol 85%	1910011_01	1
Euro OTC	Glycerol 85%	191001101	3
Euro OTC	Glycerol 85%	1910011-01	47

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Glycerol 85%	200703901	1
Euro OTC	Glycerol 85%	2007039-01	11
Euro OTC	Glycerol 85%	201017-01	1
Euro OTC	Glycerol 85%	201101701	1
Euro OTC	Glycerol 85%	2011017-01	19
Euro OTC	Glycerol 85%	2011017-02	8
Euro OTC	Glycerol 85%	20122013A	1
Euro OTC	Glycerol 85%	21001879007	2
Euro OTC	Glycerol 85%	2109022-01	3
Euro OTC	Glycerol 85%	302749	2
Euro OTC	Glycerol 85%	40524	1
Euro OTC	Glycerol 85%	5060012	1
Euro OTC	Glycerol 85%	5065061	1
Euro OTC	Glycerol 85%	5068012	1
Euro OTC	Glycerol 85%	7406HH7011	2
Euro OTC	Glycerol 85%	8004808001	2
Euro OTC	Glycerol 85%	BE-08467/36621	2
Euro OTC	Glycerol 85%	BE-0891238366	1
Euro OTC	Glycerol 85%	BE-09833/41464	1
Euro OTC	Glycerol 85%	GG61870088	1
Euro OTC	Glycerol 85%	GLYD202011060900	1
euro//Noweda	Glycerol 85%	18253402	1
Euro/Gehe	Glycerol 85%	1509023-01	1
Euro/Noweda	Glycerol 85%	1607037-01	1
Euro/Noweda	Glycerol 85%	1610032-01	1
Euro/Noweda	Glycerol 85%	180102501	1
Euro	Glycerol 85%	1601059-01	1
Euro	Glycerol 85%	1610032-01	2
euro	Glycerol 85%	1703003-01	1
euro	Glycerol 85%	BE-0983341464	1
Euroo/Gehe	Glycerol 85%	1808009-02	1
EuroOZC/ AHD	Glycerol 85%	1906019-01	1
EuroOZC/ Noweda	Glycerol 85%	1804017-01	1
Europharm/Otto	Glycerol 85%	1108032-01	1
Fagron	Glycerol 85%	11L06-N02	4
Fagron	Glycerol 85%	1203C003	1
Fagron	Glycerol 85%	1209C001	1
Fagron	Glycerol 85%	12G11-N02	1
Fagron	Glycerol 85%	12H17-N01	2
Fagron	Glycerol 85%	12J04-N02	1
Fagron	Glycerol 85%	12J04-N09	2
Fagron	Glycerol 85%	12J05-N01	1
Fagron	Glycerol 85%	12L04-N09	1
Fagron	Glycerol 85%	13060006	1
Fagron	Glycerol 85%	1312B03285613	1
Fagron	Glycerol 85%	13c28-n02	2
Fagron	Glycerol 85%	13C28-N02	6
Fagron	Glycerol 85%	13C-N02	1
Fagron	Glycerol 85%	13D11-N05	1
Fagron	Glycerol 85%	13E24-N11	2
Fagron	Glycerol 85%	13I12-B03-285611	1
Fagron	Glycerol 85%	13J01-B01	1
Fagron	Glycerol 85%	13J01-B01-285777	1
Fagron	Glycerol 85%	13J01-B01-285781	2
Fagron	Glycerol 85%	13J20-B01-285782	1
Fagron	Glycerol 85%	13J29-B01	1
Fagron	Glycerol 85%	13J29-B01-285782	1
Fagron	Glycerol 85%	14306202	2
Fagron	Glycerol 85%	14A10-B01-291982	1
Fagron	Glycerol 85%	14A10-B01-291983	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Glycerol 85%	14D25-B02-293384	1
Fagron	Glycerol 85%	14D25-B02-295895	1
Fagron	Glycerol 85%	14H11-B05-298257	2
Fagron	Glycerol 85%	15036903	1
Fagron	Glycerol 85%	1529220	1
Fagron	Glycerol 85%	15292201	1
Fagron	Glycerol 85%	15E18-B02-309484	1
Fagron	Glycerol 85%	16215303	1
Fagron	Glycerol 85%	17215501	3
Fagron	Glycerol 85%	18020001	1
Fagron	Glycerol 85%	18B05-B03	1
Fagron	Glycerol 85%	250214PJK01	1
Fagron	Glycerol 85%	3111	1
Fagron	Glycerol 85%	5065101	1
Fagron	Glycerol 85%	5065111	2
Fagron	Glycerol 85%	5069021	1
Fagron	Glycerol 85%	56-81-5	1
Fagron	Glycerol 85%	5763701	1
Fagron	Glycerol 85%	T01-0900603	3
Fargon	Glycerol 85%	1808009-01	1
Fiebig 06.05.2019	Glycerol 85%	5068101	2
Fiebig/Fischer	Glycerol 85%	5069021	1
Fiebig	Glycerol 85%	1322101	1
Fiebig	Glycerol 85%	17322101	1
Fiebig	Glycerol 85%	17322107	1
Fiebig	Glycerol 85%	18020002	2
Fiebig	Glycerol 85%	18253404	1
Fiebig	Glycerol 85%	20004357001	1
Fiebig	Glycerol 85%	5068101	1
Fischar / Alliance Hea...	Glycerol 85%	5065111	1
Fischar / Alliance Hea...	Glycerol 85%	5066111	1
Fischar / Anzag	Glycerol 85%	5068021	1
Fischar / Anzag	Glycerol 85%	5068101	2
Fischar / Fiebig	Glycerol 85%	1070042	1
Fischar / Fiebig	Glycerol 85%	5060041	1
Fischar / Fiebig	Glycerol 85%	5060111	1
Fischar / Fiebig	Glycerol 85%	5061101	2
Fischar / Gehe	Glycerol 85%	2060111	1
Fischar / GEHE	Glycerol 85%	5060012	1
Fischar / Gehe	Glycerol 85%	5060036	1
Fischar / Gehe	Glycerol 85%	5060041	1
Fischar / Gehe	Glycerol 85%	5068012	3
Fischar / Geilenkirchen	Glycerol 85%	5060033	1
Fischar / Geilenkirchen	Glycerol 85%	5060062	1
Fischar / Noweda	Glycerol 85%	40678	1
Fischar / Noweda	Glycerol 85%	5060041	1
Fischar / Noweda	Glycerol 85%	50655081	1
fischar / Noweda	Glycerol 85%	5068081	1
Fischar / Phoenix	Glycerol 85%	5061021	1
Fischar / Phoenix	Glycerol 85%	5069081	1
Fischar / Phönix	Glycerol 85%	5060032	1
Fischar / Phönix	Glycerol 85%	5065031	2
Fischar / Phönix	Glycerol 85%	5066031	1
Fischar GmbH/ Sanacorp ...	Glycerol 85%	5068031	1
Fischar GmbH/AHD	Glycerol 85%	5060041	1
Fischar GmbH/AHD	Glycerol 85%	5064091	1
Fischar GmbH/Anzag	Glycerol 85%	1070033	1
Fischar GmbH/Krieger	Glycerol 85%	5065111	1
Fischar GmbH/Krieger	Glycerol 85%	5066021	1
Fischar GmbH/Krieger	Glycerol 85%	5066111	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar GmbH/Krieger	Glycerol 85%	5067061	1
Fischar GmbH/Krieger	Glycerol 85%	5068021	2
Fischar GmbH/Krieger	Glycerol 85%	5068031	1
Fischar GmbH	Glycerol 85%	1076071	2
Fischar GmbH	Glycerol 85%	1077111	1
Fischar GmbH	Glycerol 85%	1079021	1
Fischar GmbH	Glycerol 85%	5060041	1
fischar gmbh	Glycerol 85%	5063012	1
fischar gmbh	Glycerol 85%	5064011	1
fischar gmbh	Glycerol 85%	5064021	1
Fischar GmbH	Glycerol 85%	5068012	1
Fischar GmbH	Glycerol 85%	5068031	1
Fischar GmbH	Glycerol 85%	5068081	1
Fischar GmbH	Glycerol 85%	5068121	1
fischar noweda	Glycerol 85%	CHB5069059	1
Fischar Sanacorp	Glycerol 85%	5069051	1
Fischar Sanacorp	Glycerol 85%	AP210626-02	1
Fischar via Alliance	Glycerol 85%	1079021	1
Fischar/ AHD	Glycerol 85%	5066081	1
Fischar/ AHD	Glycerol 85%	5068021	1
Fischar/ Alliance Healt...	Glycerol 85%	5069111	1
Fischar/ Gehe	Glycerol 85%	1076011	1
Fischar/ GEHE	Glycerol 85%	5069021	1
Fischar/ Now	Glycerol 85%	5065011	1
Fischar/ Now	Glycerol 85%	5065111	2
Fischar/ Now	Glycerol 85%	5066031	1
Fischar/ Now	Glycerol 85%	5066071	4
Fischar/ Now	Glycerol 85%	5067031	1
Fischar/ Now	Glycerol 85%	5067081	1
Fischar/ Now	Glycerol 85%	5067111	2
Fischar/ Now	Glycerol 85%	5068012	4
Fischar/ Now	Glycerol 85%	5068101	4
Fischar/ Now	Glycerol 85%	5069059	1
Fischar/ Now	Glycerol 85%	5069081	1
Fischar/ Noweda	Glycerol 85%	1070011	1
Fischar/ Noweda	Glycerol 85%	1070042	1
Fischar/ Noweda	Glycerol 85%	5060033	1
Fischar/ Noweda	Glycerol 85%	5060041	1
Fischar/ Noweda	Glycerol 85%	5066011	1
Fischar/ Noweda	Glycerol 85%	5069059	1
Fischar/ Phönix 08.05.2...	Glycerol 85%	5068101	1
Fischar/ Phönix	Glycerol 85%	5065101	2
Fischar/ Phönix	Glycerol 85%	5066081	1
Fischar/ Phönix	Glycerol 85%	5069051	1
Fischar/ Sanacorp 12.02...	Glycerol 85%	5069111	1
Fischar/ Sanacorp	Glycerol 85%	5060091	1
Fischar/AEP	Glycerol 85%	5065111	3
Fischar/AEP	Glycerol 85%	5067081	1
Fischar/AHD	Glycerol 85%	5060012	1
Fischar/AHD	Glycerol 85%	5060032	1
Fischar/AHD	Glycerol 85%	5060035	4
Fischar/AHD	Glycerol 85%	5060036	1
Fischar/AHD	Glycerol 85%	5060041	2
Fischar/AHD	Glycerol 85%	5065031	1
Fischar/AHD	Glycerol 85%	5065061	1
Fischar/AHD	Glycerol 85%	5065081	1
Fischar/AHD	Glycerol 85%	5067091	1
Fischar/AHD	Glycerol 85%	5068012	1
Fischar/AHD	Glycerol 85%	5068031	3
Fischar/AHD	Glycerol 85%	5068071	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar/AHD	Glycerol 85%	5068081	1
Fischar/AHD	Glycerol 85%	5069021	2
Fischar/AHD	Glycerol 85%	5069051	1
Fischar/AHD	Glycerol 85%	5069111	3
FISCHAR/AHD_23.12.21	Glycerol 85%	5061071	1
Fischar/Alliance 25.04...	Glycerol 85%	5060035	1
fischar/Alliance 30.03...	Glycerol 85%	5060032	1
Fischar/Alliance	Glycerol 85%	5068071	1
Fischar/Anzag	Glycerol 85%	5062111	1
Fischar/Anzag	Glycerol 85%	5063012	1
Fischar/Anzag	Glycerol 85%	5069051	1
Fischar/E	Glycerol 85%	5062011	1
Fischar/Ebert	Glycerol 85%	5066071	1
Fischar/Fiebig 21.07.21	Glycerol 85%	5060111	2
Fischar/Fiebig 22.09.2020	Glycerol 85%	5060042	2
Fischar/Fiebig 29.03.2022	Glycerol 85%	5061121	1
fischar/fiebig	Glycerol 85%	5060063	1
Fischar/Fiebig	Glycerol 85%	5069011	1
fischar/fiebig	Glycerol 85%	5069081	1
Fischar/Gehe	Glycerol 85%	1077011	2
Fischar/Gehe	Glycerol 85%	1079052	1
Fischar/Gehe	Glycerol 85%	5060035	1
Fischar/Gehe	Glycerol 85%	5060036	1
Fischar/Gehe	Glycerol 85%	5065081	1
Fischar/Gehe	Glycerol 85%	5066031	1
Fischar/Gehe	Glycerol 85%	5066111	1
Fischar/Gehe	Glycerol 85%	5067011	1
fischar/gehe	Glycerol 85%	5067021	1
Fischar/Gehe	Glycerol 85%	5067061	1
fischar/gehe	Glycerol 85%	5067111	2
Fischar/Gehe	Glycerol 85%	5068031	3
Fischar/Gehe	Glycerol 85%	5068061	1
Fischar/Gehe	Glycerol 85%	5068121	1
Fischar/Gehe	Glycerol 85%	5069021	1
Fischar/Gehe	Glycerol 85%	5069051	1
Fischar/Geilenkirchen	Glycerol 85%	5068012	1
Fischar/Geilenkirchen	Glycerol 85%	5068101	6
Fischar/Jenne	Glycerol 85%	5068021	2
Fischar/Kehr	Glycerol 85%	5068021	1
Fischar/Kehr	Glycerol 85%	5068101	1
Fischar/Krieger	Glycerol 85%	5060041	1
Fischar/Krieger	Glycerol 85%	5061101	1
Fischar/Krieger	Glycerol 85%	5069081	1
Fischar/Krieger	Glycerol 85%	5069111	1
Fischar/Noweda 02.02.2022	Glycerol 85%	5061071	1
Fischar/Noweda 16.12.2020	Glycerol 85%	5060041	1
Fischar/Noweda	Glycerol 85%	40683	2
Fischar/Noweda	Glycerol 85%	5060035	4
Fischar/Noweda	Glycerol 85%	5060036	1
fischar/Noweda	Glycerol 85%	5060041	1
Fischar/Noweda	Glycerol 85%	5060041	1
Fischar/Noweda	Glycerol 85%	5060063	1
fischar/Noweda	Glycerol 85%	5064091	1
Fischar/Noweda	Glycerol 85%	5066071	1
fischar/noweda	Glycerol 85%	5066081	2
Fischar/Noweda	Glycerol 85%	5066101	1
fischar/Noweda	Glycerol 85%	5067011	1
Fischar/Noweda	Glycerol 85%	5067021	1
Fischar/Noweda	Glycerol 85%	5067031	1
Fischar/Noweda	Glycerol 85%	5067061	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar/Noweda	Glycerol 85%	5068011	1
Fischar/Noweda	Glycerol 85%	5068012	2
Fischar/Noweda	Glycerol 85%	5068101	2
Fischar/Noweda	Glycerol 85%	5069051	1
fischar/Noweda	Glycerol 85%	5069052	1
Fischar/Noweda	Glycerol 85%	5069059	2
Fischar/Noweda	Glycerol 85%	5069081	3
Fischar/Noweda	Glycerol 85%	5069111	5
Fischar/Noweda	Glycerol 85%	50699059	1
Fischar/Phoenix	Glycerol 85%	1070033	2
Fischar/Phoenix	Glycerol 85%	1070042	1
Fischar/Phoenix	Glycerol 85%	1070061	1
Fischar/Phoenix	Glycerol 85%	1078012	1
Fischar/Phoenix	Glycerol 85%	180800208	1
Fischar/Phoenix	Glycerol 85%	190542805	1
Fischar/Phoenix	Glycerol 85%	5060012	1
Fischar/Phoenix	Glycerol 85%	5060032	2
Fischar/Phoenix	Glycerol 85%	5060041	1
Fischar/Phoenix	Glycerol 85%	5060062	1
Fischar/Phoenix	Glycerol 85%	5061102	1
Fischar/Phoenix	Glycerol 85%	5066081	1
Fischar/Phoenix	Glycerol 85%	5068012	1
Fischar/Phoenix	Glycerol 85%	5068031	1
Fischar/Phoenix	Glycerol 85%	5068071	1
Fischar/Phoenix	Glycerol 85%	5068101	1
fischar/Phoenix	Glycerol 85%	5069081	2
Fischar/Phoenix	Glycerol 85%	5069081	2
Fischar/Phönix	Glycerol 85%		1
Fischar/Phönix	Glycerol 85%	10132010	1
Fischar/Phönix	Glycerol 85%	1070011	2
Fischar/Phönix	Glycerol 85%	5060012	2
Fischar/Phönix	Glycerol 85%	5060034	1
Fischar/Phönix	Glycerol 85%	5060041	3
Fischar/Phönix	Glycerol 85%	5060111	1
Fischar/Phönix	Glycerol 85%	5061121	1
Fischar/Phönix	Glycerol 85%	5062051	1
Fischar/Phönix	Glycerol 85%	5064071	1
Fischar/Phönix	Glycerol 85%	5065031	2
Fischar/Phönix	Glycerol 85%	5066011	1
Fischar/Phönix	Glycerol 85%	5066021	1
fischar/Phönix	Glycerol 85%	5066071	1
Fischar/Phönix	Glycerol 85%	5066101	1
Fischar/Phönix	Glycerol 85%	5066111	1
fischar/Phönix	Glycerol 85%	50666061	1
Fischar/Phönix	Glycerol 85%	5067011	1
fischar/Phönix	Glycerol 85%	5067111	1
Fischar/Phönix	Glycerol 85%	5067111	1
Fischar/Phönix	Glycerol 85%	5068101	2
Fischar/Sanacorp	Glycerol 85%	20001043003	1
Fischar/Sanacorp	Glycerol 85%	5060012	1
fischar/sanacorp	Glycerol 85%	5060036	1
Fischar/Sanacorp	Glycerol 85%	5060036	2
Fischar/Sanacorp	Glycerol 85%	5060041	2
FISCHAR/Sanacorp	Glycerol 85%	5060041	1
Fischar/Sanacorp	Glycerol 85%	5060042	2
Fischar/Sanacorp	Glycerol 85%	5060062	1
Fischar/Sanacorp	Glycerol 85%	5060063	2
Fischar/Sanacorp	Glycerol 85%	5060091	1
Fischar/Sanacorp	Glycerol 85%	5069021	1
Fischar/Sanacorp	Glycerol 85%	5069081	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar/Sanacorp	Glycerol 85%	AP210305-01	1
Fischar/Spangro	Glycerol 85%	5060032	1
Fischar/Spangro	Glycerol 85%	5067061	1
FISCHAR/Spangro_04.05.21	Glycerol 85%	5060111	1
FISCHAR/Spangro_20.7.20	Glycerol 85%	5060041	3
Fischar/V.d.L.	Glycerol 85%	5062111	1
Fischar/V.d.L.	Glycerol 85%	5064071	1
Fischar	Glycerol 85%	1070011	3
Fischar	Glycerol 85%	1070033	1
Fischar	Glycerol 85%	1070035	1
Fischar	Glycerol 85%	107011	1
Fischar	Glycerol 85%	1075061	1
Fischar	Glycerol 85%	1077081	2
Fischar	Glycerol 85%	1078031	2
Fischar	Glycerol 85%	1079021	1
Fischar	Glycerol 85%	1802006B	1
Fischar	Glycerol 85%	2068031	1
Fischar	Glycerol 85%	3430	1
Fischar	Glycerol 85%	5055031	1
Fischar	Glycerol 85%	5060011	3
fischar	Glycerol 85%	506003	1
Fischar	Glycerol 85%	5060032	3
fischar	Glycerol 85%	5060033	1
Fischar	Glycerol 85%	5060033	2
Fischar	Glycerol 85%	5060034	1
Fischar	Glycerol 85%	5060035	3
Fischar	Glycerol 85%	5060036	6
Fischar	Glycerol 85%	5060041	7
Fischar	Glycerol 85%	5060062	5
Fischar	Glycerol 85%	5060063	5
fischar	Glycerol 85%	5060111	2
Fischar	Glycerol 85%	5060111	1
Fischar	Glycerol 85%	5061021	1
fischar	Glycerol 85%	5061081	1
Fischar	Glycerol 85%	5061101	1
Fischar	Glycerol 85%	5062051	3
Fischar	Glycerol 85%	5062111	4
Fischar	Glycerol 85%	5062121	2
Fischar	Glycerol 85%	5063011	3
Fischar	Glycerol 85%	5063051	1
Fischar	Glycerol 85%	5063052	1
Fischar	Glycerol 85%	5063091	1
Fischar	Glycerol 85%	5063092	1
Fischar	Glycerol 85%	5064011	1
Fischar	Glycerol 85%	5064021	1
Fischar	Glycerol 85%	506407	1
fischar	Glycerol 85%	5064091	1
Fischar	Glycerol 85%	5064091	1
Fischar	Glycerol 85%	5065011	3
Fischar	Glycerol 85%	5065012	3
Fischar	Glycerol 85%	5065031	2
fischar	Glycerol 85%	5065061	2
Fischar	Glycerol 85%	5065061	5
Fischar	Glycerol 85%	5065081	2
Fischar	Glycerol 85%	5065101	3
Fischar	Glycerol 85%	5065111	2
Fischar	Glycerol 85%	5066011	2
Fischar	Glycerol 85%	5066021	4
fischar	Glycerol 85%	5066031	1
Fischar	Glycerol 85%	5066031	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar	Glycerol 85%	5066071	1
Fischar	Glycerol 85%	5066081	3
Fischar	Glycerol 85%	5066101	7
Fischar	Glycerol 85%	5066111	3
Fischar	Glycerol 85%	5067021	1
Fischar	Glycerol 85%	5067031	2
fischar	Glycerol 85%	5067061	1
Fischar	Glycerol 85%	5067061	2
fischar	Glycerol 85%	5067081	1
Fischar	Glycerol 85%	5067091	3
Fischar	Glycerol 85%	5068011	7
Fischar	Glycerol 85%	5068012	6
fischar	Glycerol 85%	5068021	2
Fischar	Glycerol 85%	5068021	5
Fischar	Glycerol 85%	5068031	6
Fischar	Glycerol 85%	5068081	3
fischar	Glycerol 85%	5068101	2
Fischar	Glycerol 85%	5068101	8
Fischar	Glycerol 85%	5068121	1
Fischar	Glycerol 85%	5069011	2
Fischar	Glycerol 85%	5069021	2
Fischar	Glycerol 85%	5069051	3
Fischar	Glycerol 85%	5069059	1
Fischar	Glycerol 85%	5069081	1
Fischar	Glycerol 85%	5069111	1
Fischar	Glycerol 85%	600425	1
Fischar-Allianz	Glycerol 85%	5068121	2
fischar-Noweda	Glycerol 85%	1070011	1
fischar-Noweda	Glycerol 85%	1070033	1
fischar-Noweda	Glycerol 85%	1079021	1
fischar-Noweda	Glycerol 85%	5068101	1
Fischbar/Anzag	Glycerol 85%	5064011	3
fischbar	Glycerol 85%	5064091	1
fischbar	Glycerol 85%	5067061	1
Fischer / AHD	Glycerol 85%	5060012	1
Fischer / Gehe	Glycerol 85%	5060033	1
Fischer / Jenne	Glycerol 85%	5061081	1
Fischer / Phoenix Leipz...	Glycerol 85%	5065081	1
Fischer GmbH / Phoenix ...	Glycerol 85%	5068012	1
Fischer GmbH	Glycerol 85%	5066071	2
fischer, Gehe	Glycerol 85%	5062051	1
Fischer/ Gehe	Glycerol 85%	5060012	1
Fischer/ Noweda	Glycerol 85%	1076111	1
Fischer/ Noweda	Glycerol 85%	1610032-01	1
fischer/ Phoenix / 02.1...	Glycerol 85%	5066071	1
Fischer/AHD	Glycerol 85%	5061081	1
Fischer/Fiebig 04.03.2019	Glycerol 85%	5068031	1
Fischer/Gehe	Glycerol 85%	5060035	1
Fischer/Noweda	Glycerol 85%	5065011	1
Fischer/Noweda	Glycerol 85%	5069111	1
Fischer/Phoenix	Glycerol 85%	5060041	1
Fischer/Phönix	Glycerol 85%	r/506108001	1
Fischer/Sanacorp	Glycerol 85%	1911009-01	1
Fischer/Sanacorp	Glycerol 85%	5060034	1
Fischer/Sanacorp	Glycerol 85%	5067061	1
Fischer/Sanacorp	Glycerol 85%	5068031	1
Fischer/Sanacorp	Glycerol 85%	5069011	1
Fischer/Sanacorp	Glycerol 85%	5069031	1
Fischer/Sanacorp	Glycerol 85%	5069051	1
Fischer	Glycerol 85%	1070033	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischer	Glycerol 85%	1075012	1
Fischer	Glycerol 85%	5060012	1
Fischer	Glycerol 85%	5060032	1
Fischer	Glycerol 85%	5060035	1
Fischer	Glycerol 85%	5060062	1
fischer	Glycerol 85%	5063051	1
Fischer	Glycerol 85%	5063091	1
Fischer	Glycerol 85%	5065101	1
Fischer	Glycerol 85%	5065111	1
Fischer	Glycerol 85%	5066021	1
Fischer	Glycerol 85%	5066061	2
Fischer	Glycerol 85%	50660631	1
Fischer	Glycerol 85%	5066071	1
Fischer	Glycerol 85%	5067031	1
fischer	Glycerol 85%	5068081	1
Fishar / Phönix	Glycerol 85%	5064011	1
Fishar/Phö	Glycerol 85%	5060012	1
Fishar/Sanacorp	Glycerol 85%	1070011	1
Fishar/Sanacorp	Glycerol 85%	5060041	3
Fishar	Glycerol 85%	5066021	1
Gatt-Koller	Glycerol 85%	1802637	1
Gatt-Koller	Glycerol 85%	1804132	1
Gehe - Hedinger	Glycerol 85%	40618	1
Gehe / Fischar	Glycerol 85%	1077081	1
Gehe am 05.04.2014	Glycerol 85%	13276205	2
Gehe amax	Glycerol 85%	5060062	1
Gehe amax	Glycerol 85%	5067061	2
Gehe amax	Glycerol 85%	5067111	1
Gehe amax	Glycerol 85%	5068031	1
Gehe amax	Glycerol 85%	5068081	2
Gehe amax	Glycerol 85%	5068121	1
Gehe,06.05.15	Glycerol 85%	14306205	1
Gehe/ Euro	Glycerol 85%	151690	1
GEHE/apo-ident	Glycerol 85%	1610032-01	1
Gehe/EuRho	Glycerol 85%	1906019-01	1
gehe/fischa	Glycerol 85%	5060041	1
gehe/fischa	Glycerol 85%	5060042	1
Gehe/fischar	Glycerol 85%	5065101	1
Gehe/Fischar	Glycerol 85%	5066071	1
Gehe/Fischar	Glycerol 85%	5068081	1
Gehe/Fischer	Glycerol 85%	5068031	1
Gehe/Fischer	Glycerol 85%	5068081	1
Gehe/Hedinger	Glycerol 85%	2x040620	1
Gehe/Hedinger	Glycerol 85%	40599	4
Gehe/Hedinger	Glycerol 85%	40607	1
Gehe/Hedinger	Glycerol 85%	40612	4
Gehe/Hedinger	Glycerol 85%	40620	1
Gehe/Hedinger	Glycerol 85%	40628	1
Gehe/Hedinger	Glycerol 85%	40638	2
Gehe/Hedinger	Glycerol 85%	40642	2
Gehe/Hedinger	Glycerol 85%	40646	1
Gehe/Hedinger	Glycerol 85%	40652	2
Gehe/Hedinger	Glycerol 85%	40667	1
Gehe/Hedinger	Glycerol 85%	40673	1
Gehe/Hedinger	Glycerol 85%	40683	1
Gehe	Glycerol 85%	1001017-01	1
Gehe	Glycerol 85%	11355301	1
Gehe	Glycerol 85%	1201038-01	1
Gehe	Glycerol 85%	1210047-01	1
Gehe	Glycerol 85%	12108201	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
GEHE	Glycerol 85%	12216606	1
Gehe	Glycerol 85%	1301025-01	1
Gehe	Glycerol 85%	13356404	1
Gehe	Glycerol 85%	13356405	1
Gehe	Glycerol 85%	14149404	2
Gehe	Glycerol 85%	1502010-01	1
Gehe	Glycerol 85%	15036902	1
Gehe	Glycerol 85%	15036904	1
Gehe	Glycerol 85%	15146301	1
Gehe	Glycerol 85%	15292201	1
Gehe	Glycerol 85%	15292205	2
GEHE	Glycerol 85%	16215301	1
Gehe	Glycerol 85%	16215302	1
Gehe	Glycerol 85%	16218901	3
Gehe	Glycerol 85%	16218906	1
Gehe	Glycerol 85%	16297803	1
Gehe	Glycerol 85%	17002	1
Gehe	Glycerol 85%	17215501	2
Gehe	Glycerol 85%	17322104	2
GEHE	Glycerol 85%	17322104	1
Gehe	Glycerol 85%	18005463	1
Gehe	Glycerol 85%	18020002	1
Gehe	Glycerol 85%	1808009-02	2
Gehe	Glycerol 85%	18253404	2
Gehe	Glycerol 85%	19011201	1
Gehe	Glycerol 85%	1906019-01	1
Gehe	Glycerol 85%	19124401	1
Gehe	Glycerol 85%	19188301	1
Gehe	Glycerol 85%	19188304	1
Gehe	Glycerol 85%	192976007	1
Gehe	Glycerol 85%	20001043005	1
Gehe	Glycerol 85%	20001747003	1
Gehe	Glycerol 85%	276850	2
Gehe	Glycerol 85%	284401	1
Gehe	Glycerol 85%	295501	2
Gehe	Glycerol 85%	297034	1
Gehe	Glycerol 85%	300395	1
Gehe	Glycerol 85%	40491	2
Gehe	Glycerol 85%	40507	1
Gehe	Glycerol 85%	40559	1
Gehe	Glycerol 85%	40576	1
Gehe	Glycerol 85%	40607	1
Gehe	Glycerol 85%	40628	1
GEHE	Glycerol 85%	40635	1
Gehe	Glycerol 85%	40638	1
GEHE	Glycerol 85%	40646	1
GEHE	Glycerol 85%	40647	1
Gehe	Glycerol 85%	40649	1
GEHE	Glycerol 85%	40652	2
GEHE	Glycerol 85%	40667	1
GEHE	Glycerol 85%	40670	1
GEHE	Glycerol 85%	40673	1
Gehe	Glycerol 85%	40684	1
Gehe	Glycerol 85%	40685	1
Gehe	Glycerol 85%	40716	1
Gehe	Glycerol 85%	40719	1
Gehe	Glycerol 85%	40724	1
Gehe	Glycerol 85%	5062051	1
Gehe	Glycerol 85%	5062121	1
Gehe	Glycerol 85%	5063012	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Glycerol 85%	5066031	1
Gehe	Glycerol 85%	5226901	1
Gehe-Hedinger	Glycerol 85%	40522	1
Geibo/EuRho	Glycerol 85%	1703003-01	3
Geibo/EuRho	Glycerol 85%	17080220-01	1
Geibo/Euro 12.8.19	Glycerol 85%	1808009-02	1
Geibo/Fischer 25.09.21	Glycerol 85%	1070111	1
Geibo/Hedinger	Glycerol 85%	40646	1
Geibo	Glycerol 85%	5067081	1
Geibo	Glycerol 85%	5067111	2
Geo-Chem/sanacorp	Glycerol 85%	12216606	1
Glycerol	Glycerol 85%	20004357004	1
HanosanGmbH	Glycerol 85%	329411001	1
Hanry Lanotte/Phönix	Glycerol 85%	8001116001	1
Hänseler	Glycerol 85%		1
Heddinger/Sanacorp	Glycerol 85%	40475	1
Hediner GmbH	Glycerol 85%	40680	1
Hedinge	Glycerol 85%	40680	1
hedingen	Glycerol 85%	CH040678	1
Hedinger / AHC	Glycerol 85%	40695	2
Hedinger / Alliance	Glycerol 85%	40506	2
Hedinger / Anzag	Glycerol 85%	40691	2
Hedinger / Fiebig	Glycerol 85%	40629	1
Hedinger / Gehe	Glycerol 85%	40515	1
Hedinger / Gehe	Glycerol 85%	40612	1
Hedinger / Gehe	Glycerol 85%	40635	2
Hedinger / Gehe	Glycerol 85%	40644	1
Hedinger / Gehe	Glycerol 85%	40664	1
Hedinger / Gehe	Glycerol 85%	40669	2
Hedinger / Gehe	Glycerol 85%	40671	1
Hedinger / Gehe	Glycerol 85%	40673	1
Hedinger / Gehe	Glycerol 85%	40683	1
Hedinger / Gehe	Glycerol 85%	40684	1
Hedinger / Gehe	Glycerol 85%	40685	1
Hedinger / Gehe	Glycerol 85%	40690	3
Hedinger / Gehe	Glycerol 85%	40691	1
Hedinger / Gehe	Glycerol 85%	40716	1
Hedinger / NOW	Glycerol 85%	40697	1
Hedinger / Noweda	Glycerol 85%	40644	1
Hedinger / Noweda	Glycerol 85%	40671	1
Hedinger / Noweda	Glycerol 85%	40683	2
Hedinger / Phönix	Glycerol 85%	40649	1
Hedinger / Phönix	Glycerol 85%	40652	1
Hedinger / Phönix	Glycerol 85%	40665	1
Hedinger / Phönix	Glycerol 85%	40667	2
Hedinger / Phönix	Glycerol 85%	40678	2
Hedinger / Phönix	Glycerol 85%	40691	1
Hedinger / Phönix	Glycerol 85%	40708	1
Hedinger / Sana	Glycerol 85%	40660	1
Hedinger / Sana	Glycerol 85%	40664	1
Hedinger / Sana	Glycerol 85%	40667	2
Hedinger / Sana	Glycerol 85%	40678	1
Hedinger / Sana	Glycerol 85%	40684	1
Hedinger / Sana	Glycerol 85%	40685	1
Hedinger / Sana	Glycerol 85%	40688	1
Hedinger / Sanacorp	Glycerol 85%	40451	1
Hedinger / Sanacorp	Glycerol 85%	40566	1
Hedinger / Sanacorp	Glycerol 85%	40612	1
Hedinger / Sanacorp	Glycerol 85%	40678	1
Hedinger /Noweda	Glycerol 85%	40635	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger /Noweda	Glycerol 85%	40660	1
Hedinger /Noweda	Glycerol 85%	40673	1
Hedinger /Phönix	Glycerol 85%	40628	1
Hedinger /Phönix	Glycerol 85%	40629	1
Hedinger /Phönix	Glycerol 85%	40644	1
Hedinger /Phönix	Glycerol 85%	40652	1
Hedinger /Phönix	Glycerol 85%	40655	1
Hedinger AHD	Glycerol 85%	40618	1
Hedinger AHD	Glycerol 85%	40646	1
Hedinger Gehe	Glycerol 85%	40519	1
Hedinger Gehe	Glycerol 85%	40646	1
Hedinger GmbH/ Noweda	Glycerol 85%	40690	1
Hedinger GmbH/Alliance ...	Glycerol 85%	40673	1
Hedinger GmbH/Kehr	Glycerol 85%	40660	1
Hedinger GmbH/Kehr	Glycerol 85%	40691	1
Hedinger GmbH/Noweda	Glycerol 85%	40635	2
Hedinger GmbH/Noweda	Glycerol 85%	40662	3
Hedinger GmbH/Noweda	Glycerol 85%	40695	1
Hedinger GmbH/Sanacorp	Glycerol 85%	40697	1
Hedinger GmbH	Glycerol 85%	40548	1
Hedinger GmbH	Glycerol 85%	40626	3
Hedinger GmbH	Glycerol 85%	40683	2
Hedinger Jenne	Glycerol 85%	40462	1
Hedinger Jenne	Glycerol 85%	40501	1
Hedinger Noweda	Glycerol 85%	40662	1
Hedinger Noweda	Glycerol 85%	40683	1
Hedinger Noweda	Glycerol 85%	40684	1
Hedinger Noweda	Glycerol 85%	40713	1
Hedinger Phönix	Glycerol 85%	40471	1
Hedinger Phönix	Glycerol 85%	40475	1
Hedinger Phönix	Glycerol 85%	40495	1
Hedinger Phönix	Glycerol 85%	40507	1
Hedinger Phönix	Glycerol 85%	40542	1
Hedinger Phönix	Glycerol 85%	40548	1
Hedinger Phönix	Glycerol 85%	40607	1
Hedinger Phönix	Glycerol 85%	40618	2
Hedinger Phönix	Glycerol 85%	40626	1
Hedinger Phönix	Glycerol 85%	40632	2
Hedinger Phönix	Glycerol 85%	40647	2
Hedinger Phönix	Glycerol 85%	40649	1
Hedinger Sanacorp 24.07...	Glycerol 85%	40665	1
Hedinger Sanacorp	Glycerol 85%	40632	1
Hedinger Sanacorp	Glycerol 85%	40683	1
Hedinger Sanacorp	Glycerol 85%	40690	1
Hedinger, Stuttgart / P...	Glycerol 85%	40673	1
Hedinger, Stuttgart	Glycerol 85%	40695	2
Hedinger/ VDL	Glycerol 85%	40683	1
Hedinger/ AHD	Glycerol 85%	40620	1
Hedinger/ AHD	Glycerol 85%	40642	1
Hedinger/ AHD	Glycerol 85%	40691	1
Hedinger/ Alliance Heal...	Glycerol 85%	40649	1
Hedinger/ Alliance Heal...	Glycerol 85%	40655	2
Hedinger/ Anzag	Glycerol 85%	166(040632)	1
Hedinger/ Anzag	Glycerol 85%	167(040665)	1
Hedinger/ Anzag	Glycerol 85%	175(040695)	1
Hedinger/ Anzag	Glycerol 85%	220622(040725)	1
Hedinger/ Anzag	Glycerol 85%	40491	1
Hedinger/ Anzag	Glycerol 85%	40632	1
Hedinger/ Anzag	Glycerol 85%	40684	1
Hedinger/ Anzag	Glycerol 85%	40691	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/ Gehe	Glycerol 85%	40566	1
Hedinger/ Jenne	Glycerol 85%	40688	2
Hedinger/ Jenne	Glycerol 85%	4095	1
Hedinger/ Noweda	Glycerol 85%	40515	1
Hedinger/ Noweda	Glycerol 85%	40574	1
Hedinger/ Noweda	Glycerol 85%	40620	1
hedinger/ noweda	Glycerol 85%	40664	1
Hedinger/ Noweda	Glycerol 85%	40683	2
Hedinger/ Noweda	Glycerol 85%	40697	1
Hedinger/ Phoenix	Glycerol 85%	40628	1
Hedinger/ Sanacorp	Glycerol 85%	40479	1
Hedinger/ Sanacorp	Glycerol 85%	40480	1
Hedinger/ Sanacorp	Glycerol 85%	40499	1
Hedinger/ Sanacorp	Glycerol 85%	40501	1
Hedinger/ Sanacorp	Glycerol 85%	40531-1	1
Hedinger/ Sanacorp	Glycerol 85%	40538	1
Hedinger/ Sanacorp	Glycerol 85%	40546	2
Hedinger/ Sanacorp	Glycerol 85%	40559	1
Hedinger/ Sanacorp	Glycerol 85%	40567	1
Hedinger/ Sanacorp	Glycerol 85%	40584	2
Hedinger/ Sanacorp	Glycerol 85%	40599	2
Hedinger/ Sanacorp	Glycerol 85%	40612	1
Hedinger/ sanacorp	Glycerol 85%	40683	2
Hedinger/ VDL	Glycerol 85%	40671	1
Hedinger/	Glycerol 85%	40680	1
Hedinger/4	Glycerol 85%	40599	1
Hedinger/AEP	Glycerol 85%	40670	1
Hedinger/AHD	Glycerol 85%	164(040620)	1
Hedinger/AHD	Glycerol 85%	165(0406209	1
Hedinger/AHD	Glycerol 85%	40586	1
Hedinger/AHD	Glycerol 85%	40652	1
Hedinger/AHD	Glycerol 85%	40671	1
Hedinger/AHD	Glycerol 85%	40675	1
Hedinger/AHD	Glycerol 85%	40695	1
Hedinger/AHD	Glycerol 85%	40697	3
Hedinger/AHD	Glycerol 85%	40708	1
Hedinger/AHD	Glycerol 85%	40716	1
Hedinger/Allia	Glycerol 85%	40691	1
Hedinger/Alliance Healt...	Glycerol 85%	394353	1
Hedinger/Alliance Healt...	Glycerol 85%	40626	1
Hedinger/Alliance	Glycerol 85%	40584	1
Hedinger/Alliance	Glycerol 85%	40626	1
Hedinger/Alliance	Glycerol 85%	40632	1
Hedinger/Alliance	Glycerol 85%	40671	1
Hedinger/Alliance	Glycerol 85%	40678	1
Hedinger/Alliance	Glycerol 85%	40716	1
Hedinger/Anzag	Glycerol 85%	40483	2
Hedinger/Anzag	Glycerol 85%	40665	1
Hedinger/Anzag	Glycerol 85%	40667	1
hedinger/anzag	Glycerol 85%	5538401	1
Hedinger/Ebert	Glycerol 85%	40483	1
Hedinger/Ebert	Glycerol 85%	40574	1
Hedinger/Ebert	Glycerol 85%	40576	1
Hedinger/Ebert	Glycerol 85%	40612	1
Hedinger/Ebert	Glycerol 85%	40628	2
Hedinger/Ebert	Glycerol 85%	40642	1
Hedinger/Ebert	Glycerol 85%	40646	1
Hedinger/Ebert	Glycerol 85%	40652	2
Hedinger/Ebert	Glycerol 85%	40665	2
Hedinger/Fiebig	Glycerol 85%	40607	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Fiebig	Glycerol 85%	40629	1
Hedinger/Fiebig	Glycerol 85%	40644	1
HEDINGER/Fiebig	Glycerol 85%	40655	1
Hedinger/Fiebig	Glycerol 85%	40667	1
Hedinger/Fiebig	Glycerol 85%	40678	1
Hedinger/Gehe/28.28.19	Glycerol 85%	40664	1
Hedinger/Gehe/29.08.19	Glycerol 85%	40667	1
Hedinger/Gehe	Glycerol 85%	3112Q-01589	1
Hedinger/Gehe	Glycerol 85%	40473	1
Hedinger/Gehe	Glycerol 85%	40483	1
Hedinger/Gehe	Glycerol 85%	40491	1
Hedinger/Gehe	Glycerol 85%	40497	2
hedinger/Gehe	Glycerol 85%	40501	1
Hedinger/Gehe	Glycerol 85%	40519	1
Hedinger/Gehe	Glycerol 85%	40524	1
hedinger/Gehe	Glycerol 85%	40529	1
Hedinger/Gehe	Glycerol 85%	4052B	1
Hedinger/Gehe	Glycerol 85%	40540	2
Hedinger/Gehe	Glycerol 85%	40548	1
Hedinger/Gehe	Glycerol 85%	40557	1
Hedinger/Gehe	Glycerol 85%	40559	1
Hedinger/Gehe	Glycerol 85%	40566	1
Hedinger/Gehe	Glycerol 85%	40576	1
Hedinger/Gehe	Glycerol 85%	40584	3
Hedinger/Gehe	Glycerol 85%	40586	1
Hedinger/Gehe	Glycerol 85%	40599	2
Hedinger/Gehe	Glycerol 85%	40620	1
Hedinger/Gehe	Glycerol 85%	40628	1
Hedinger/Gehe	Glycerol 85%	40629	1
Hedinger/Gehe	Glycerol 85%	40632	1
Hedinger/Gehe	Glycerol 85%	40635	1
Hedinger/Gehe	Glycerol 85%	40647	4
Hedinger/Gehe	Glycerol 85%	40652	3
Hedinger/Gehe	Glycerol 85%	40655	1
Hedinger/Gehe	Glycerol 85%	40670	4
Hedinger/Gehe	Glycerol 85%	40671	1
Hedinger/Gehe	Glycerol 85%	40673	1
Hedinger/Gehe	Glycerol 85%	40680	1
Hedinger/Gehe	Glycerol 85%	40683	1
Hedinger/Gehe	Glycerol 85%	40690	4
Hedinger/Gehe	Glycerol 85%	40691	1
Hedinger/Gehe	Glycerol 85%	40697	1
Hedinger/Gehe	Glycerol 85%	40708	1
Hedinger/Gehe	Glycerol 85%	40716	1
Hedinger/Gehe	Glycerol 85%	40724	1
Hedinger/Gehe	Glycerol 85%	4091	1
Hedinger/Geibo	Glycerol 85%	40467	1
Hedinger/Geibo	Glycerol 85%	40540	1
Hedinger/Geibo	Glycerol 85%	40566	1
Hedinger/Geibo	Glycerol 85%	40599	1
Hedinger/Geibo	Glycerol 85%	40620	1
Hedinger/Geibo	Glycerol 85%	40678	1
Hedinger/Holdermann 18....	Glycerol 85%	40452	1
Hedinger/Jenne/04.06.20	Glycerol 85%	40690	1
Hedinger/Jenne	Glycerol 85%	40683	1
Hedinger/Jenne	Glycerol 85%	40690	2
Hedinger/Krieger	Glycerol 85%	40618	1
Hedinger/Krieger	Glycerol 85%	40635	1
HEDINGER/Lusanum	Glycerol 85%	40644	1
Hedinger/Novatis	Glycerol 85%	40695	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Noweda	Glycerol 85%	40478	1
Hedinger/Noweda	Glycerol 85%	40515	1
Hedinger/Noweda	Glycerol 85%	40522	1
Hedinger/Noweda	Glycerol 85%	40538	2
Hedinger/Noweda	Glycerol 85%	40542	1
Hedinger/Noweda	Glycerol 85%	40557	2
Hedinger/Noweda	Glycerol 85%	40559	1
Hedinger/Noweda	Glycerol 85%	40567	1
Hedinger/Noweda	Glycerol 85%	40574	1
Hedinger/Noweda	Glycerol 85%	40579	2
Hedinger/Noweda	Glycerol 85%	40583	1
Hedinger/Noweda	Glycerol 85%	40596	1
Hedinger/Noweda	Glycerol 85%	40599	1
Hedinger/Noweda	Glycerol 85%	40607	3
Hedinger/Noweda	Glycerol 85%	40612	2
Hedinger/Noweda	Glycerol 85%	40618	5
Hedinger/Noweda	Glycerol 85%	40620	1
Hedinger/Noweda	Glycerol 85%	40626	1
Hedinger/Noweda	Glycerol 85%	40628	1
Hedinger/Noweda	Glycerol 85%	40629	1
Hedinger/Noweda	Glycerol 85%	40649	1
Hedinger/Noweda	Glycerol 85%	40655	3
Hedinger/Noweda	Glycerol 85%	40664	1
Hedinger/Noweda	Glycerol 85%	40671	1
Hedinger/Noweda	Glycerol 85%	40673	3
Hedinger/Noweda	Glycerol 85%	40675	1
Hedinger/Noweda	Glycerol 85%	40678	3
Hedinger/Noweda	Glycerol 85%	40683	1
Hedinger/Noweda	Glycerol 85%	40691	2
Hedinger/Ph	Glycerol 85%	40646	1
Hedinger/Ph	Glycerol 85%	40670	1
Hedinger/Phö	Glycerol 85%	40618	3
Hedinger/Phö	Glycerol 85%	40626	2
Hedinger/Phö	Glycerol 85%	40652	1
Hedinger/Phö	Glycerol 85%	40665	1
Hedinger/Phoenix	Glycerol 85%	40515	1
Hedinger/Phoenix	Glycerol 85%	40542	1
Hedinger/Phoenix	Glycerol 85%	40546	1
Hedinger/Phoenix	Glycerol 85%	40559	1
Hedinger/Phoenix	Glycerol 85%	40579	1
Hedinger/Phoenix	Glycerol 85%	40596	1
Hedinger/Phoenix	Glycerol 85%	40635	1
Hedinger/Phoenix	Glycerol 85%	40644	3
hedinger/Phoenix	Glycerol 85%	40665	1
hedinger/Phoenix	Glycerol 85%	40673	2
Hedinger/Phoenix	Glycerol 85%	40678	4
hedinger/Phoenix	Glycerol 85%	4067B	1
hedinger/Phoenix	Glycerol 85%	40680	1
Hedinger/Phönix	Glycerol 85%	1808009-01	1
Hedinger/Phönix	Glycerol 85%	40481	1
Hedinger/Phönix	Glycerol 85%	40483	2
Hedinger/Phönix	Glycerol 85%	40531-1	1
Hedinger/Phönix	Glycerol 85%	40546	1
Hedinger/Phönix	Glycerol 85%	40559	1
Hedinger/Phönix	Glycerol 85%	40567	1
Hedinger/Phönix	Glycerol 85%	40574	1
Hedinger/Phönix	Glycerol 85%	40576	1
Hedinger/Phönix	Glycerol 85%	40583	1
Hedinger/Phönix	Glycerol 85%	40596	1
Hedinger/Phönix	Glycerol 85%	40598	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Phönix	Glycerol 85%	40599	2
Hedinger/Phönix	Glycerol 85%	40607	1
Hedinger/Phönix	Glycerol 85%	40612	1
Hedinger/Phönix	Glycerol 85%	40620	1
Hedinger/Phönix	Glycerol 85%	40626	1
Hedinger/Phönix	Glycerol 85%	40628	3
Hedinger/Phönix	Glycerol 85%	40629	3
Hedinger/Phönix	Glycerol 85%	40652	2
Hedinger/Phönix	Glycerol 85%	40673	1
Hedinger/Phönix	Glycerol 85%	40678	2
Hedinger/Phönix	Glycerol 85%	40695	1
Hedinger/PX	Glycerol 85%	40547	1
Hedinger/Sanacorp	Glycerol 85%	40499-3354319071	1
Hedinger/Sanacorp	Glycerol 85%	40501	1
Hedinger/Sanacorp	Glycerol 85%	40507	1
Hedinger/Sanacorp	Glycerol 85%	40546	1
Hedinger/Sanacorp	Glycerol 85%	40548	2
Hedinger/Sanacorp	Glycerol 85%	40557	1
Hedinger/Sanacorp	Glycerol 85%	40559	1
Hedinger/Sanacorp	Glycerol 85%	40566	1
Hedinger/Sanacorp	Glycerol 85%	40576	1
Hedinger/Sanacorp	Glycerol 85%	40579	1
Hedinger/Sanacorp	Glycerol 85%	40620	1
Hedinger/Sanacorp	Glycerol 85%	40628	2
Hedinger/Sanacorp	Glycerol 85%	40629	2
Hedinger/Sanacorp	Glycerol 85%	40635	3
Hedinger/Sanacorp	Glycerol 85%	40644	1
Hedinger/Sanacorp	Glycerol 85%	40647	2
Hedinger/Sanacorp	Glycerol 85%	40652	4
Hedinger/Sanacorp	Glycerol 85%	40667	3
Hedinger/Sanacorp	Glycerol 85%	40671	1
Hedinger/Sanacorp	Glycerol 85%	40678	1
Hedinger/Sanacorp	Glycerol 85%	40684	1
Hedinger/Sanacorp	Glycerol 85%	40690	1
Hedinger/Sanacorp	Glycerol 85%	40691	4
Hedinger/Sanacorp	Glycerol 85%	40711	1
Hedinger/Sanacorp	Glycerol 85%	40716	1
Hedinger/Sanacorp	Glycerol 85%	61016B	1
Hedinger/Titz	Glycerol 85%	40678	1
Hedinger/VDL	Glycerol 85%	40599	1
Hedinger	Glycerol 85%	25082015B	1
Hedinger	Glycerol 85%	40447	1
Hedinger	Glycerol 85%	40452	1
Hedinger	Glycerol 85%	40464	2
Hedinger	Glycerol 85%	40471	2
Hedinger	Glycerol 85%	40473	1
Hedinger	Glycerol 85%	40478	1
Hedinger	Glycerol 85%	40481	1
hedinger	Glycerol 85%	40483	1
Hedinger	Glycerol 85%	40483	2
Hedinger	Glycerol 85%	40486	2
HEDINGER	Glycerol 85%	40491	1
hedinger	Glycerol 85%	40494	1
Hedinger	Glycerol 85%	40497	2
HEDINGER	Glycerol 85%	40497	1
Hedinger	Glycerol 85%	40499	3
HEDINGER	Glycerol 85%	40501	1
Hedinger	Glycerol 85%	40502	1
Hedinger	Glycerol 85%	40506	2
Hedinger	Glycerol 85%	40507	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Glycerol 85%	40515	1
Hedinger	Glycerol 85%	40519	3
Hedinger	Glycerol 85%	40522	1
Hedinger	Glycerol 85%	40524	1
Hedinger	Glycerol 85%	40528	1
Hedinger	Glycerol 85%	40529	3
Hedinger	Glycerol 85%	40531	2
Hedinger	Glycerol 85%	40531-1	3
hedinger	Glycerol 85%	40538	1
Hedinger	Glycerol 85%	40538	4
Hedinger	Glycerol 85%	40540	1
Hedinger	Glycerol 85%	40541	2
Hedinger	Glycerol 85%	40542	1
Hedinger	Glycerol 85%	40546	1
Hedinger	Glycerol 85%	40548	2
Hedinger	Glycerol 85%	40556	2
Hedinger	Glycerol 85%	40557	5
Hedinger	Glycerol 85%	40559	2
Hedinger	Glycerol 85%	40566	5
Hedinger	Glycerol 85%	40567	3
Hedinger	Glycerol 85%	40574	3
Hedinger	Glycerol 85%	40576	6
Hedinger	Glycerol 85%	40578	1
Hedinger	Glycerol 85%	40579	5
Hedinger	Glycerol 85%	4057907474853	1
Hedinger	Glycerol 85%	40583	4
Hedinger	Glycerol 85%	40584	4
Hedinger	Glycerol 85%	40586	5
Hedinger	Glycerol 85%	40596	4
Hedinger	Glycerol 85%	40598	9
Hedinger	Glycerol 85%	40599	15
Hedinger	Glycerol 85%	40607	9
Hedinger	Glycerol 85%	40612	9
Hedinger	Glycerol 85%	40618	2
Hedinger	Glycerol 85%	40620	11
Hedinger	Glycerol 85%	406205369	1
Hedinger	Glycerol 85%	40625	1
Hedinger	Glycerol 85%	40626	7
Hedinger	Glycerol 85%	40628	11
Hedinger	Glycerol 85%	40629	5
Hedinger	Glycerol 85%	40632	3
Hedinger	Glycerol 85%	40635	5
Hedinger	Glycerol 85%	40639	2
Hedinger	Glycerol 85%	40644	3
Hedinger	Glycerol 85%	40646	3
Hedinger	Glycerol 85%	40647	4
hedinger	Glycerol 85%	40652	1
Hedinger	Glycerol 85%	40652	8
Hedinger	Glycerol 85%	40655	4
Hedinger	Glycerol 85%	40660	2
Hedinger	Glycerol 85%	40664	1
Hedinger	Glycerol 85%	40665	4
Hedinger	Glycerol 85%	40667	3
Hedinger	Glycerol 85%	406678	1
Hedinger	Glycerol 85%	40670	1
Hedinger	Glycerol 85%	40671	2
Hedinger	Glycerol 85%	40673	2
HEDINGER	Glycerol 85%	40673	1
Hedinger	Glycerol 85%	40678	6
HEDINGER	Glycerol 85%	40678	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Glycerol 85%	40680	2
Hedinger	Glycerol 85%	40683	6
HEDINGER	Glycerol 85%	40683	1
Hedinger	Glycerol 85%	40684	1
Hedinger	Glycerol 85%	40685	1
hedinger	Glycerol 85%	40690	1
Hedinger	Glycerol 85%	40690	4
Hedinger	Glycerol 85%	40691	4
Hedinger	Glycerol 85%	40695(1)	1
Hedinger	Glycerol 85%	40695(2)	1
Hedinger	Glycerol 85%	40697	3
HEDINGER	Glycerol 85%	40697	1
Hedinger	Glycerol 85%	40697-2	1
Hedinger	Glycerol 85%	40708	3
Hedingere	Glycerol 85%	40678	2
Heedinger/Noweda	Glycerol 85%	40576	1
Heidinger/Sanaccorp	Glycerol 85%	40683	2
heidringer	Glycerol 85%	40559	1
Hendiger/Sanacorp	Glycerol 85%	40599	1
Henry Lamotte / Anzag	Glycerol 85%	125545	1
Henry Lamotte / Anzag	Glycerol 85%	8001116001	1
Henry Lamotte / Noweda	Glycerol 85%	1000006424	1
Henry Lamotte / Noweda	Glycerol 85%	125545	1
Henry Lamotte GmbH Bremen	Glycerol 85%	5142501	1
Henry Lamotte OHLS GMBH...	Glycerol 85%	8006785001	2
Henry Lamotte Oils GmbH...	Glycerol 85%	8006785001	1
Henry Lamotte Oils GmbH...	Glycerol 85%	1000013286	1
Henry Lamotte Oils GmbH...	Glycerol 85%	1000013541	1
Henry Lamotte Oils GmbH...	Glycerol 85%	8002208001	1
Henry Lamotte Oils GmbH...	Glycerol 85%	8005437001	1
Henry Lamotte oils GmbH...	Glycerol 85%	8002208001	2
Henry Lamotte Oils GmbH	Glycerol 85%	1000013286	1
Henry Lamotte Oils GmbH	Glycerol 85%	125545	1
HENRY LAMOTTE OILS GmbH	Glycerol 85%	8006785001	1
Henry Lamotte Oils/ Gehe	Glycerol 85%	1801025-01	1
Henry Lamotte Olis GmbH	Glycerol 85%	5603001	1
Henry Lamotte Phönix	Glycerol 85%	123142	1
Henry Lamotte/ Alliance...	Glycerol 85%	8002720001	1
Henry Lamotte/ Noweda	Glycerol 85%	8002208001	1
Henry Lamotte/ Noweda	Glycerol 85%	8005437001	1
Henry Lamotte/ sanacorp	Glycerol 85%	1000013286	1
Henry Lamotte/	Glycerol 85%	1000012233	1
Henry Lamotte/Anzag	Glycerol 85%	8001116001	1
Henry Lamotte/Anzag	Glycerol 85%	8005437001	1
Henry Lamotte/Jenne	Glycerol 85%	1000013286	1
Henry Lamotte/Jenne	Glycerol 85%	123464	1
Henry Lamotte/Noweda	Glycerol 85%	1000013541	1
Henry Lamotte/Noweda	Glycerol 85%	8002720001	1
Henry Lamotte/Phoenix	Glycerol 85%	17215501	1
Henry Lamotte/Phoenix	Glycerol 85%	8006785001	1
Henry Lamotte	Glycerol 85%		1
Henry Lamotte	Glycerol 85%	1000013286	1
HENRY LAMOTTE	Glycerol 85%	1000013286	1
Henry Lamotte	Glycerol 85%	1000013541	2
Henry Lamotte	Glycerol 85%	123142	1
Henry Lamotte	Glycerol 85%	123304	1
Henry Lamotte	Glycerol 85%	124654	1
Henry Lamotte	Glycerol 85%	15292204	1
Henry Lamotte	Glycerol 85%	1703003-01	1
Henry Lamotte	Glycerol 85%	5226901	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte	Glycerol 85%	5538401	2
Henry Lamotte	Glycerol 85%	5603001	1
Henry Lamotte	Glycerol 85%	8002208001	1
Henry Lamotte	Glycerol 85%	8006785001	1
Henry	Glycerol 85%	123304	1
HenryLamotte/Phönix	Glycerol 85%	1000013541	1
Hepart	Glycerol 85%	15036903	2
Herbeta / Noweda	Glycerol 85%		2
Herbeta Arzneimittel Be...	Glycerol 85%		1
Herbeta Arzneimittel	Glycerol 85%		2
Herbeta Berlin	Glycerol 85%		1
Hidinger	Glycerol 85%	40691	1
HirschApotheke	Glycerol 85%	40541	1
hochhaus-Apotheke	Glycerol 85%	5066111	1
Ichthyol/Noweda	Glycerol 85%	5068031	2
Jenne / A. Hedinger	Glycerol 85%	40662	1
Jenne / A. Hedinger	Glycerol 85%	40713	1
Jenne/Lamotte	Glycerol 85%	5603001	1
Jenne	Glycerol 85%	40599	1
Kehr / Fischar	Glycerol 85%	5061071	1
Kehr / Lamotte	Glycerol 85%	290114PML04	1
Kehr/Otto Fischar GmbH	Glycerol 85%	5068031	3
Kehr/Otto Fischar GmbH	Glycerol 85%	5069051	1
Kehr	Glycerol 85%	1808009-02	1
Kehr	Glycerol 85%	20001473	1
Kögl	Glycerol 85%	105004171417	2
Kögl	Glycerol 85%	1700476	1
Kögl	Glycerol 85%	1800130	1
Kögl	Glycerol 85%	1800839	1
Kögl	Glycerol 85%	1802181	1
Kögl	Glycerol 85%	20302170917	1
Kögl	Glycerol 85%	258607172917	1
kraemer/ Gehe	Glycerol 85%	41025	1
L10	Glycerol 85%	17197701	3
L10	Glycerol 85%	18020001	3
L12	Glycerol 85%	16347203	4
L12	Glycerol 85%	16347209	2
L30	Glycerol 85%	18020005	2
Laborchemie APOLDA	Glycerol 85%	14149410	1
Lamotte Noweda	Glycerol 85%	1000007843	1
Lamotte Noweda	Glycerol 85%	8002720001	1
Lamotte/ Noweda	Glycerol 85%	1000012233	1
Lamotte/ Noweda	Glycerol 85%	8005158001	1
Lamotte/ Phönix	Glycerol 85%	1000013541	2
Lamotte/ Phönix	Glycerol 85%	8006785001	1
Lamotte//AHD	Glycerol 85%	125545	1
Lamotte/AHD	Glycerol 85%	1000007843	1
Lamotte/AHD	Glycerol 85%	8001116001	1
Lamotte/AHD	Glycerol 85%	8002208001	1
Lamotte/AHD	Glycerol 85%	8003194001	1
Lamotte/AHD	Glycerol 85%	8005158001	1
Lamotte/Alliance	Glycerol 85%	5603001	1
Lamotte/Anzag	Glycerol 85%	10000006424	1
Lamotte/Anzag	Glycerol 85%	1000006424	1
Lamotte/Anzag	Glycerol 85%	1000007843	3
Lamotte/Anzag	Glycerol 85%	1000012233	1
Lamotte/Anzag	Glycerol 85%	8003194000	1
Lamotte/Anzag	Glycerol 85%	8004808001	3
Lamotte/Gehe	Glycerol 85%	1000013005	2
Lamotte/Geilenkirchen	Glycerol 85%	1000013286	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Krieger/27.11.13	Glycerol 85%	5538401	3
Lamotte/Krieger	Glycerol 85%	1000013286	1
Lamotte/Noweda	Glycerol 85%	1000013005	1
Lamotte/Noweda	Glycerol 85%	123464	1
Lamotte/Noweda	Glycerol 85%	5538401	1
LAMOTTE/NOWEDA	Glycerol 85%	5538401	2
Lamotte/Phoenix	Glycerol 85%	1000012233	1
Lamotte/Phoenix	Glycerol 85%	8002720001	2
lamotte/phönix	Glycerol 85%	5538401	2
Lamotte/Sanacorp	Glycerol 85%	1000013286	1
Lamotte/Sanacorp	Glycerol 85%	1000014128	1
Lamotte/Sanacorp	Glycerol 85%	124654	2
Lamotte	Glycerol 85%	1000013286	1
Lamotte	Glycerol 85%	123304	1
Lamotte	Glycerol 85%	5142501	1
Lamotte	Glycerol 85%	5360201	5
Lamotte	Glycerol 85%	5424101	2
Lamotte	Glycerol 85%	5424901	4
Lamotte	Glycerol 85%	5487801	2
Lamotte	Glycerol 85%	5512001	2
Lamotte	Glycerol 85%	5538401	2
Lamotte	Glycerol 85%	5603001	7
Lamotte	Glycerol 85%	5603002	1
Leyh Pharma GmbH	Glycerol 85%	BE-08675/37460	1
Marktapotheke	Glycerol 85%	40599	1
Midas	Glycerol 85%	40618	1
Midas	Glycerol 85%	40632	1
Nachprüfung	Glycerol 85%	220M-01589	1
Nachprüfung	Glycerol 85%	3082019-4	1
Nauto	Glycerol 85%	16218906	1
Nokun	Glycerol 85%	5067061	1
Noweda / Hedinger	Glycerol 85%	40626	1
Noweda /Hedinger	Glycerol 85%	40652	2
Noweda/ Fischar	Glycerol 85%	5060036	2
Noweda/ Fischar	Glycerol 85%	5065011	1
Noweda/ Fischar	Glycerol 85%	5065061	2
Noweda/ Hedinger	Glycerol 85%	40642	1
Noweda/ Hedinger	Glycerol 85%	40652	1
Noweda/ Lamotte	Glycerol 85%	8005437001	1
Noweda/Fischar	Glycerol 85%	5064021	1
Noweda/Fischar	Glycerol 85%	5067061	1
Noweda/Hedinger	Glycerol 85%	40499	1
Noweda/Hedinger	Glycerol 85%	40509	1
Noweda/Hedinger	Glycerol 85%	40574	2
Noweda/Hedinger	Glycerol 85%	40586	1
Noweda/Hedinger	Glycerol 85%	40652	1
Noweda/Hedinger	Glycerol 85%	40691	2
Noweda/Ichthyol	Glycerol 85%	5064071	1
Noweda/Otto Fischar GmbH	Glycerol 85%	5066071	1
noweda	Glycerol 85%		1
Noweda	Glycerol 85%	1070033	1
Noweda	Glycerol 85%	12108201	1
noweda	Glycerol 85%	13276202	1
noweda	Glycerol 85%	13356403	1
Noweda	Glycerol 85%	1506036-01	1
Noweda	Glycerol 85%	1708022-01	1
Noweda	Glycerol 85%	18020002	2
Noweda	Glycerol 85%	1804017-01	1
Noweda	Glycerol 85%	18253404	1
Noweda	Glycerol 85%	19000627	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Glycerol 85%	19001	1
Noweda	Glycerol 85%	1901041-01	1
Noweda	Glycerol 85%	192976002	1
Noweda	Glycerol 85%	200001747	1
Noweda	Glycerol 85%	20000941003	1
Noweda	Glycerol 85%	20001043005	1
Noweda	Glycerol 85%	20001632	1
Noweda	Glycerol 85%	20004043002	1
Noweda	Glycerol 85%	2011017-01	1
Noweda	Glycerol 85%	2011017-02	1
Noweda	Glycerol 85%	272305	1
Noweda	Glycerol 85%	278655	1
Noweda	Glycerol 85%	308738	1
Noweda	Glycerol 85%	310593	1
Noweda	Glycerol 85%	40464	1
Noweda	Glycerol 85%	40475	1
Noweda	Glycerol 85%	40483	1
Noweda	Glycerol 85%	40647	2
Noweda	Glycerol 85%	40673	1
Noweda	Glycerol 85%	40684	1
Noweda	Glycerol 85%	5060012	1
Noweda	Glycerol 85%	5061102	1
Noweda	Glycerol 85%	5062121	2
Noweda	Glycerol 85%	5066071	1
Noweda	Glycerol 85%	5067061	1
Noweda	Glycerol 85%	5068101	2
Noweda	Glycerol 85%	5226901	1
Noweda	Glycerol 85%	BE-09161	1
OTTO Fischar / GEHE	Glycerol 85%	5060036	1
Otto Fischar / GEHE	Glycerol 85%	5065081	1
Otto Fischar / GEHE	Glycerol 85%	5066021	2
Otto Fischar / gehe	Glycerol 85%	5067111	1
Otto Fischar / Gehe	Glycerol 85%	5068031	1
Otto Fischar / Gehe	Glycerol 85%	5068081	1
Otto Fischar GmbH & Co KG	Glycerol 85%	5069081	1
Otto Fischar GmbH & Co....	Glycerol 85%	5068012	1
Otto Fischar GmbH & Co....	Glycerol 85%	5060041	1
Otto Fischar GmbH & Co....	Glycerol 85%	1077011	1
Otto Fischar GmbH & Co....	Glycerol 85%	5060012	1
Otto Fischar GmbH & Co....	Glycerol 85%	5060032	3
Otto Fischar GmbH & Co....	Glycerol 85%	5060033	1
Otto Fischar GmbH & Co....	Glycerol 85%	5060041	2
Otto Fischar GmbH & Co....	Glycerol 85%	5060111	2
Otto Fischar GmbH & Co....	Glycerol 85%	5061071	1
Otto Fischar GmbH & Co....	Glycerol 85%	5065012	1
Otto Fischar GmbH & Co....	Glycerol 85%	5065061	1
Otto Fischar GmbH & Co....	Glycerol 85%	5066071	1
Otto Fischar GmbH & Co....	Glycerol 85%	5067111	1
Otto Fischar GmbH & Co....	Glycerol 85%	5069021	1
Otto Fischar GmbH & Co....	Glycerol 85%	50068031	1
Otto Fischar GmbH & Co....	Glycerol 85%	5060011	1
Otto Fischar GmbH & Co....	Glycerol 85%	5068012	1
Otto Fischar GmbH & Co....	Glycerol 85%	5068121	1
Otto Fischar GmbH & Co....	Glycerol 85%	5069021	1
Otto Fischar GmbH & Co.KG	Glycerol 85%	5065031	1
Otto Fischar GmbH & Co.KG	Glycerol 85%	5066021	1
Otto Fischar GmbH & Co.KG	Glycerol 85%	5066061	1
Otto Fischar GmbH & Co.KG	Glycerol 85%	5066111	3
Otto Fischar GmbH & Co.KG	Glycerol 85%	5067061	1
Otto Fischar GmbH &nCo.KG	Glycerol 85%	5068012	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Otto Fischar GmbH / All...	Glycerol 85%	5067031	1
Otto Fischar GmbH / All...	Glycerol 85%	5067061	1
Otto Fischar GmbH / All...	Glycerol 85%	5067081	1
Otto Fischar GmbH / All...	Glycerol 85%	5067111	1
Otto Fischar GmbH / All...	Glycerol 85%	5068081	1
Otto Fischar GmbH / Gehe	Glycerol 85%	1076021	1
Otto Fischar GmbH / Gehe	Glycerol 85%	5066071	1
Otto Fischar GmbH / Pho...	Glycerol 85%	5068081	2
Otto- Fischar GmbH und ...	Glycerol 85%	5067011	1
Otto Fischar GmbH& Co KG	Glycerol 85%	5060036	1
Otto Fischar GmbH&Co KG	Glycerol 85%	5067091	1
Otto Fischar GmbH&Co KG	Glycerol 85%	5068021	1
Otto Fischar GmbH&Co KG	Glycerol 85%	5068101	1
Otto Fischar GmbH&Co KG	Glycerol 85%	5069081	1
Otto Fischar GmbH&Co.KG	Glycerol 85%	5060041	1
Otto Fischar GmbH&Co.KG	Glycerol 85%	506041	1
Otto Fischar GmbH&Co.KG	Glycerol 85%	5069081	1
Otto Fischar GmbH&Co	Glycerol 85%	5060042	1
Otto Fischar GmbH&Co	Glycerol 85%	5060091	1
Otto Fischar GmbH&CoKG	Glycerol 85%	5068012	1
Otto Fischar GmbH/ Noweda	Glycerol 85%	5066011	4
Otto Fischar GmbH/ Sana...	Glycerol 85%	5067091	1
Otto Fischar GmbH/ Sana...	Glycerol 85%	5068012	1
Otto Fischar GmbH/ Sana...	Glycerol 85%	5068081	1
Otto Fischar GmbH/ Sana...	Glycerol 85%	5068101	1
Otto Fischar GmbH/Gehe	Glycerol 85%	5066011	1
Otto Fischar GmbH/Now	Glycerol 85%	5068031	2
Otto Fischar GmbH/Noweda	Glycerol 85%	5060036	1
Otto Fischar GmbH/Noweda	Glycerol 85%	5069111	1
Otto Fischar GmbH/Phoenix	Glycerol 85%	5060012	1
Otto Fischar GmbH/Phoenix	Glycerol 85%	5060062	1
Otto Fischar GmbH/Phoenix	Glycerol 85%	5068012	1
Otto Fischar GmbH/Phoenix	Glycerol 85%	5068021	1
Otto Fischar GmbH/Phoenix	Glycerol 85%	5068031	1
Otto Fischar GmbH/Phoenix	Glycerol 85%	5069059	2
Otto Fischar Gmbh/Phönix	Glycerol 85%	5069011	1
Otto Fischar GmbH	Glycerol 85%	1077011	1
Otto Fischar GmbH	Glycerol 85%	15092017-MW-A	1
Otto Fischar GmbH	Glycerol 85%	5060011	1
Otto Fischar GmbH	Glycerol 85%	5060032	1
Otto Fischar GmbH	Glycerol 85%	5060034	1
Otto Fischar GmbH	Glycerol 85%	5060036	1
Otto Fischar GmbH	Glycerol 85%	5060041	1
Otto Fischar GmbH	Glycerol 85%	5060062	1
Otto Fischar GmbH	Glycerol 85%	5060111	1
Otto Fischar GmbH	Glycerol 85%	5061102	1
Otto Fischar GmbH	Glycerol 85%	5062051	1
Otto Fischar GmbH	Glycerol 85%	5062052	2
Otto Fischar Gmbh	Glycerol 85%	5062121	2
Otto Fischar GmbH	Glycerol 85%	5064021	1
Otto Fischar GmbH	Glycerol 85%	5065031	1
Otto Fischar GmbH	Glycerol 85%	5065081	2
Otto Fischar GmbH	Glycerol 85%	5066061	1
Otto Fischar GmbH	Glycerol 85%	5066081	2
Otto Fischar GmbH	Glycerol 85%	5066101	1
Otto Fischar GmbH	Glycerol 85%	5067011	2
Otto Fischar GmbH	Glycerol 85%	5067021	2
Otto Fischar GmbH	Glycerol 85%	506711	1
Otto Fischar GmbH	Glycerol 85%	5068012	1
Otto Fischar GmbH	Glycerol 85%	5068031	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Otto Fischar GmbH	Glycerol 85%	5068101	1
Otto Fischar GmbH	Glycerol 85%	5068121	1
Otto Fischar GmbH	Glycerol 85%	5069081	1
Otto Fischar/ Alliance	Glycerol 85%	1070042	1
Otto Fischar/ Noweda	Glycerol 85%	1076111	1
Otto Fischar/ Noweda	Glycerol 85%	1077111	1
Otto Fischar/ Noweda	Glycerol 85%	5060012	2
Otto Fischar/ Noweda	Glycerol 85%	5069059	1
Otto Fischar/ Phoenix	Glycerol 85%	5060063	1
Otto Fischar/ Sanacorp	Glycerol 85%	5060042	1
Otto Fischar/AHD	Glycerol 85%	5068012	1
otto fischar/gehe	Glycerol 85%	5060036	1
Otto Fischar/Gehe	Glycerol 85%	5060036	1
otto fischar/gehe	Glycerol 85%	5060041	1
Otto Fischar/Gehe	Glycerol 85%	5063012	1
Otto Fischar/Gehe	Glycerol 85%	5067011	1
Otto Fischar/Gehe	Glycerol 85%	5067091	1
Otto Fischar/Gehe	Glycerol 85%	5068012	1
Otto Fischar/Gehe	Glycerol 85%	5068031	3
Otto Fischar/Gehe	Glycerol 85%	5068081	1
Otto Fischar/Gehe	Glycerol 85%	5068121	4
Otto Fischar/Gehe	Glycerol 85%	5069021	2
Otto Fischar/Noweda	Glycerol 85%	1070011	1
Otto Fischar/Noweda	Glycerol 85%	5060033	2
Otto Fischar/Noweda	Glycerol 85%	5060035	1
Otto Fischar/Noweda	Glycerol 85%	5067091	1
Otto Fischar/Phoenix	Glycerol 85%	5063011	1
Otto Fischar/Phoenix	Glycerol 85%	5069021	1
Otto Fischar/Phoenix	Glycerol 85%	5069051	1
Otto Fischar/Phoenix	Glycerol 85%	5096051	1
Otto Fischar/Phönix	Glycerol 85%	1079052	1
Otto Fischar/Sanacorp	Glycerol 85%	5060062	1
Otto Fischar/Sanacorp	Glycerol 85%	5068121	1
Otto Fischar	Glycerol 85%	1070033	4
Otto Fischar	Glycerol 85%	1075061	1
otto fischar	Glycerol 85%	1075111	1
Otto Fischar	Glycerol 85%	10751111	1
Otto Fischar	Glycerol 85%	1076021	1
Otto Fischar	Glycerol 85%	1078011	1
Otto Fischar	Glycerol 85%	5060012	1
Otto Fischar	Glycerol 85%	5060031	1
Otto Fischar	Glycerol 85%	5060032	1
Otto Fischar	Glycerol 85%	5060033	1
Otto Fischar	Glycerol 85%	5060034	1
otto fischar	Glycerol 85%	5060036	1
Otto Fischar	Glycerol 85%	5060036	1
Otto Fischar	Glycerol 85%	5060041	2
Otto Fischar	Glycerol 85%	5060062	1
Otto Fischar	Glycerol 85%	5060091	1
Otto Fischar	Glycerol 85%	5060121	1
Otto Fischar	Glycerol 85%	5062011	2
Otto Fischar	Glycerol 85%	5062051	1
Otto Fischar	Glycerol 85%	5064021	1
Otto Fischar	Glycerol 85%	5065012	1
otto Fischar	Glycerol 85%	5065111	1
Otto Fischar	Glycerol 85%	5066031	1
Otto Fischar	Glycerol 85%	5066061	1
Otto Fischar	Glycerol 85%	5066081	2
Otto Fischar	Glycerol 85%	5066101	2
Otto Fischar	Glycerol 85%	5066111	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Otto Fischar	Glycerol 85%	5067011	1
Otto Fischar	Glycerol 85%	5067061	1
Otto Fischar	Glycerol 85%	5068012	1
Otto Fischar	Glycerol 85%	5068031	3
Otto Fischar	Glycerol 85%	5068081	1
Otto Fischar	Glycerol 85%	5069051	4
otto fischar	Glycerol 85%	P2018/108	1
Otto Fischbar GmbH&Co. KG	Glycerol 85%	5060035	2
Otto Fischer GmbH & Co....	Glycerol 85%	5068081	1
Otto Fischer GmbH & Co....	Glycerol 85%	5069111	1
Otto Fischer GmbH &nCo.KG	Glycerol 85%	5067011	1
Otto Fischer GmbH &nCo.KG	Glycerol 85%	5069051	1
Otto Fischer GmbH / San...	Glycerol 85%	5060032	1
Otto Fischer GmbH&Co.KG...	Glycerol 85%	5060033	1
Otto Fischer GmbH&Co.KG	Glycerol 85%	5060012	1
Otto Fischer GmbH&Co.KG	Glycerol 85%	5060062	1
Otto Fischer GmbH&Co.KG	Glycerol 85%	5067031	1
otto fischer gmbh/ Phoe...	Glycerol 85%	5068031	3
otto fischer gmbh/ Phoe...	Glycerol 85%	5067111	1
Otto Fischer GmbH	Glycerol 85%	1070033	1
Otto Fischer GmbH	Glycerol 85%	5062121	1
Otto Fischer GmbH	Glycerol 85%	5066031	1
Otto Fischer GmbH	Glycerol 85%	5068031	2
Otto Fischer GmbH	Glycerol 85%	5069051	1
Otto Fischer GmH/Sanacorp	Glycerol 85%	5060041	1
Otto Fischer/Gehe	Glycerol 85%	5066101	1
Otto Fischer/Krieger	Glycerol 85%	5066061	1
Otto Fischer/Krieger	Glycerol 85%	5067091	1
Otto Fischer/Krieger	Glycerol 85%	5068012	1
Otto Fischer/Noweda	Glycerol 85%	5063012	1
Otto Fischer/Röntgen	Glycerol 85%	560111	1
Otto Fischer	Glycerol 85%	2011017-01	1
otto fischer	Glycerol 85%	23081604	1
Otto Fischer	Glycerol 85%	5060012	1
Otto Fischer	Glycerol 85%	5060041	1
Otto Fischer	Glycerol 85%	5064011	1
Otto Fischer	Glycerol 85%	5065081	1
Otto Fischer	Glycerol 85%	5065111	1
Otto Fischer	Glycerol 85%	5067011	1
Otto Fischer	Glycerol 85%	5067111	1
Otto Fischer	Glycerol 85%	5068021	1
Otto Fschar GmbH & Co. KG	Glycerol 85%	5067081	1
Otto	Glycerol 85%		1
OttoFischer	Glycerol 85%	5060062	1
Paul W. Beyvers GmbH/ A...	Glycerol 85%	17003	1
Paul W. Beyvers GmbH/ P...	Glycerol 85%	19002	1
Paul W. Beyvers GmbH	Glycerol 85%	17001	1
Paul W. Beyvers GmbH	Glycerol 85%	17003	1
Paul W. Beyvers GmbH	Glycerol 85%	18001	1
Paul W. Beyvers GmbH	Glycerol 85%	18002	1
paul w. beyvers gmbh	Glycerol 85%	19001	1
Perrigo/Phönix	Glycerol 85%	284401	1
Ph.Eur./Noweda	Glycerol 85%	5060041	1
Ph.Eur.	Glycerol 85%	5060111	2
Ph.Eur.7.0	Glycerol 85%	14148106	1
Ph/Hedinger	Glycerol 85%	40629	1
Ph/Hedinger	Glycerol 85%	40632	1
Ph/Hedinger	Glycerol 85%	40644	1
Ph/Hedinger	Glycerol 85%	40660	1
Ph/Hedinger	Glycerol 85%	40680	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem/ Phönix	Glycerol 85%	1607037-01	2
phoenix /Hennry Lamotte	Glycerol 85%	1000013541	4
Phoenix 5.3.14	Glycerol 85%	13144606	1
PHOENIX am 14.01.2014	Glycerol 85%	13060007	1
Phoenix Leipzig / 23.06...	Glycerol 85%	5066101	1
Phoenix Leipzig 18.08.17	Glycerol 85%	5067031	1
Phoenix/ Hedinger	Glycerol 85%	40673	1
Phoenix/ Otto Fischer G...	Glycerol 85%	5067081	1
Phoenix/Otto Fischar	Glycerol 85%	5060033	1
Phoenix/Otto Fischar	Glycerol 85%	5060041	1
Phoenix/Otto Fischer	Glycerol 85%	5068031	1
Phoenix/Otto Fischer	Glycerol 85%	5068101	1
Phoenix/Otto Fischer	Glycerol 85%	5069021	2
Phoenix	Glycerol 85%	12273604	1
Phoenix	Glycerol 85%	13039203	2
Phoenix	Glycerol 85%	13144607	2
Phoenix	Glycerol 85%	1405021-01	1
Phoenix	Glycerol 85%	15036903	1
Phoenix	Glycerol 85%	17157702	1
Phoenix	Glycerol 85%	1801025-01	1
Phoenix	Glycerol 85%	1808009-02	1
Phoenix	Glycerol 85%	18327003	1
Phoenix	Glycerol 85%	19004186	1
Phoenix	Glycerol 85%	19011201	2
Phoenix	Glycerol 85%	19011202	1
Phoenix	Glycerol 85%	19011203	2
Phoenix	Glycerol 85%	19124401	1
Phoenix	Glycerol 85%	19188301	1
Phoenix	Glycerol 85%	20011017-01	1
Phoenix	Glycerol 85%	200703901	1
Phoenix	Glycerol 85%	2011017-01	1
Phoenix	Glycerol 85%	3047	1
Phoenix	Glycerol 85%	310592	1
Phoenix	Glycerol 85%	3109	1
Phoenix	Glycerol 85%	3227	1
Phoenix	Glycerol 85%	3360	1
Phoenix	Glycerol 85%	40586	1
Phoenix	Glycerol 85%	40596	1
Phoenix	Glycerol 85%	40713	2
Phoenix	Glycerol 85%	5068031	1
Phoenix	Glycerol 85%	5068101	1
Phoenix	Glycerol 85%	5069081	1
Phönix Hedinger	Glycerol 85%	40620	1
Phönix / Lamotte	Glycerol 85%	8002720001	1
Phönix 14.01.2014	Glycerol 85%	13060001	1
Phönix 17.06.2019	Glycerol 85%	19011201	1
Phönix 28.10.2019	Glycerol 85%	19124401	1
Phönix Gotha	Glycerol 85%	15146301	1
Phönix Gotha	Glycerol 85%	1804017-01	1
Phönix Gotha	Glycerol 85%	275075	1
Phönix Gotha	Glycerol 85%	5060012	1
Phönix Gotha	Glycerol 85%	5060032	1
Phönix Göttingen 19.03....	Glycerol 85%	40652	1
Phönix/ Fischar	Glycerol 85%	5067031	1
Phönix/ Fischar	Glycerol 85%	5068101	1
Phönix/ HEDINGER	Glycerol 85%	4067B	1
Phönix/Fischar	Glycerol 85%	5067091	1
Phönix/Fischer	Glycerol 85%	50600313	1
Phönix/Hedinger	Glycerol 85%	40673	2
Phönix/Hedinger	Glycerol 85%	40695	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix/Hedinger	Glycerol 85%	40708	1
Phönix/Henry Lamotte/Ph...	Glycerol 85%	8005158001	1
Phönix/Henry Lamotte	Glycerol 85%	1000007843	2
Phönix/Henry Lamotte	Glycerol 85%	8005437001	1
Phönix	Glycerol 85%	106063702	1
Phönix	Glycerol 85%	12273604	1
Phönix	Glycerol 85%	13039203	1
Phönix	Glycerol 85%	13356406	1
Phönix	Glycerol 85%	14149403	1
phönix	Glycerol 85%	16218907	1
Phönix	Glycerol 85%	18240901	1
Phönix	Glycerol 85%	19004187	1
Phönix	Glycerol 85%	19011201	1
Phönix	Glycerol 85%	1906019-01	1
Phönix	Glycerol 85%	20001043003	1
Phönix	Glycerol 85%	20001043004	1
Phönix	Glycerol 85%	20004357001	1
Phönix	Glycerol 85%	2007039-01	2
Phönix	Glycerol 85%	201093010	1
PHÖNIX	Glycerol 85%	21001879003	1
Phönix	Glycerol 85%	40478	1
Phönix	Glycerol 85%	40481	1
Phönix	Glycerol 85%	40501	1
Phönix	Glycerol 85%	40507	1
phönix	Glycerol 85%	40586	1
Phönix	Glycerol 85%	40596	1
phönix	Glycerol 85%	40598	1
Phönix	Glycerol 85%	40599	1
phönix	Glycerol 85%	40612	1
PHÖNIX	Glycerol 85%	40626	3
Phönix	Glycerol 85%	40628	1
PHÖNIX	Glycerol 85%	40632	1
PHÖNIX	Glycerol 85%	40660	1
PHÖNIX	Glycerol 85%	40695	1
PHÖNIX	Glycerol 85%	5060041	1
Phönix	Glycerol 85%	5060042	1
Phönix	Glycerol 85%	5063011	1
Phönix	Glycerol 85%	5066081	1
Phönix	Glycerol 85%	8001116001	1
Phönix	Glycerol 85%	8006785001	1
Rondell Apotheke	Glycerol 85%	40576	1
Röntgen	Glycerol 85%	5060041	1
Roth Chemical	Glycerol 85%	40291599	1
Sana	Glycerol 85%	40647	1
Sanacop	Glycerol 85%	15036903	1
Sanacop	Glycerol 85%	15292204	1
Sanacorp 09.12.15	Glycerol 85%	152902202	1
Sanacorp 09.11.21, 14,50EUR	Glycerol 85%	211125	1
Sanacorp 25.10.2017	Glycerol 85%	16347202	1
sanacorp, 7,66EUR, 17.09....	Glycerol 85%	16063701	1
Sanacorp/ Heddinger	Glycerol 85%	400473	1
Sanacorp/ Heddinger	Glycerol 85%	4071	1
Sanacorp/ Hedinger	Glycerol 85%	40502	1
Sanacorp/Fischar	Glycerol 85%	1076021	1
Sanacorp/Fischar	Glycerol 85%	5060035	1
Sanacorp/Fischar	Glycerol 85%	5067061	1
Sanacorp/Hedinger	Glycerol 85%	40683	1
Sanacorp/Otto Fischar	Glycerol 85%	1079021	1
Sanacorp	Glycerol 85%		1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Glycerol 85%	13039204	1
Sanacorp	Glycerol 85%	13276205	1
Sanacorp	Glycerol 85%	14149410	2
sanacorp	Glycerol 85%	14149411	1
Sanacorp	Glycerol 85%	15036902	1
Sanacorp	Glycerol 85%	15292205	2
Sanacorp	Glycerol 85%	16347208	1
Sanacorp	Glycerol 85%	17157702	2
Sanacorp	Glycerol 85%	17215501	1
Sanacorp	Glycerol 85%	17322101	1
Sanacorp	Glycerol 85%	17322104	1
Sanacorp	Glycerol 85%	173222104	1
Sanacorp	Glycerol 85%	18002	1
Sanacorp	Glycerol 85%	1801025-01	1
Sanacorp	Glycerol 85%	1804017-01	2
Sanacorp	Glycerol 85%	18153702	1
Sanacorp	Glycerol 85%	18253402	1
Sanacorp	Glycerol 85%	18253404	1
Sanacorp	Glycerol 85%	19002	1
Sanacorp	Glycerol 85%	19124401	4
Sanacorp	Glycerol 85%	192976002	1
Sanacorp	Glycerol 85%	20001043003	1
Sanacorp	Glycerol 85%	273719	1
Sanacorp	Glycerol 85%	278655	1
Sanacorp	Glycerol 85%	280855	2
Sanacorp	Glycerol 85%	282731	1
Sanacorp	Glycerol 85%	40480	1
Sanacorp	Glycerol 85%	40495	1
Sanacorp	Glycerol 85%	40506	1
Sanacorp	Glycerol 85%	40652	1
Sanacorp	Glycerol 85%	40683	1
Sanacorp	Glycerol 85%	40691	1
Sanacorp	Glycerol 85%	72/AKD1	1
Sanacorp	Glycerol 85%	78/AKD7	1
Sanacorp	Glycerol 85%	79/AKD12	1
Sanacrop	Glycerol 85%	19188301	1
sancorp	Glycerol 85%	19011203	1
Spangro 31.07.2018	Glycerol 85%	17322104	1
Spinnrad GmbH/Sanacorp	Glycerol 85%	917409013	1
Spinnrad GmbH	Glycerol 85%	919409014	1
Spinnrad/Phoenix	Glycerol 85%	418409012	1
Spinnrad	Glycerol 85%	1116409015	1
Spinnrad	Glycerol 85%	713048084	1
spinnrad	Glycerol 85%	914409013	1
Stumpf / Hedinger	Glycerol 85%	40557	1
Stumpf/Hedinger	Glycerol 85%	40531	1
Stumpf/Hedinger	Glycerol 85%	40576	1
Taoasis/Sanacorp	Glycerol 85%	17197702	1
Taoasis	Glycerol 85%	40628	2
Taoasis	Glycerol 85%	40647	1
Taoasis	Glycerol 85%	40655	1
Test	Glycerol 85%	Test	1
VDL;16.3.16;7,57EUR	Glycerol 85%	15292205	1
Verbio AG/Gehe	Glycerol 85%	1708022-01	1
Verbio AG	Glycerol 85%	Be-08675/37460	1
Verbio AG	Glycerol 85%	BE-08912/38366	1
WE:23.03.2016 Sanacorp	Glycerol 85%	15292205	1

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 290 771 spectra from 1322 *Apo-Ident* customers from a total of 52 082 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Glycerol 85%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Glycerol 85%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	620	0	67 879
Type B	0	1630	0	109 683
Type C	0	6676	11	290 771

The substance/substance group *Glycerol 85%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.0323 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.6319 %)
Type C	100.0000 % (> 99.6875 %)	99.8355 % (> 99.7906 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Glycerol 85%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Glycerine ointment (conserved)	27.58	–
Honey	47.35	–
Rose honey	49.03	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Glycerol 85%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30886	31737	2.16	47.88
30980	31737	1.70	48.77
31360	31956	1.40	48.07
31377	31737	1.27	49.46
31588	31588	0.00	47.99
31719	31719	0.00	49.43
31737	31737	0.00	49.94
31956	31956	0.00	49.32
34031	34031	0.00	48.11
35136	35136	0.00	51.77
36568	36568	0.00	42.45

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Glycolic acid 70%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30491-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Glycolic acid 70%; Acidum glycolicum 70%

Special notes

When selecting the *Glycolic acid 70%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Glycolic acid 70%	4	3	25

Second-stage model

For differentiation of the substance/substance group *Glycolic acid 70%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Glycolic acid 70%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Euro OTC	Glycolic acid 70%	1406006-01	31620	60	20140708
Euro OTC	Glycolic acid 70%	1406006-01	31647	60	20140708
Euro OTC	Glycolic acid 70%	1604050	32281	40	20160510*
Euro OTC	Glycolic acid 70%	1604050-03	34184	40	20180315
Euro OTC	Glycolic acid 70%	2109005	35904	50	20211029*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 250 spectra of 5 reference samples from the substance/substance group *Glycolic acid 70%*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 249 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Glycolic acid 70%*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Euro OTC	Glycolic acid 70%	1604050-01	33225	40
Euro OTC	Glycolic acid 70%	2007032	35083	40
Euro OTC	Glycolic acid 70%	2103013	35268	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 62 spectra from 25 *Apo-Ident* customers from 26 batches from the substance/substance group *Glycolic acid 70%*.

- Among them are spectra of independent samples from 25 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Glycolic acid 70%	121002201	1
Caelo	Glycolic acid 70%	1604050-03	1
Caelo	Glycolic acid 70%	18912183	1
Eu Rho/XX	Glycolic acid 70%	2007032-01	1
Euro OTC	Glycolic acid 70%	1109027-01	1
Euro OTC	Glycolic acid 70%	1210022-01	2
Euro OTC	Glycolic acid 70%	1401014-01	1
Euro OTC	Glycolic acid 70%	160405001	4
Euro OTC	Glycolic acid 70%	1604050-01	9
Euro OTC	Glycolic acid 70%	160405002	1
Euro OTC	Glycolic acid 70%	1604050-02	3
Euro OTC	Glycolic acid 70%	160405003	2
Euro OTC	Glycolic acid 70%	1604050-03	5
Euro OTC	Glycolic acid 70%	16040501-01	1
Euro OTC	Glycolic acid 70%	164050-01	1
Euro OTC	Glycolic acid 70%	1907018-01	8
Euro OTC	Glycolic acid 70%	190708-01	1
Euro OTC	Glycolic acid 70%	200703201	1
Euro OTC	Glycolic acid 70%	2007032-01	4
Euro OTC	Glycolic acid 70%	210301301	1
Euro OTC	Glycolic acid 70%	2103013-01	4
Euro OTC	Glycolic acid 70%	3079344	1
Euro OTC	Glycolic acid 70%	S7735962	1
Euro OTC	Glycolic acid 70%	S7920462	1
Euro OTC	Glycolic acid 70%	S8041062	1
Merck	Glycolic acid 70%	S7410686	1
Merck	Glycolic acid 70%	S7638586	3
Phoenix	Glycolic acid 70%	1205037-01	1

- 297 396 spectra from 1324 *Apo-Ident* customers from a total of 52 961 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model,

the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Glycolic acid 70%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Glycolic acid 70%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	250	0	68 249
Type B	0	120	0	111 193
Type C	0	61	1	297 396

The substance/substance group *Glycolic acid 70%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.6000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6876 %)	98.3871 % (> 93.5484 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Glycolic acid 70%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Anionic hydrophlic cream without prese…	95.99	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Glycolic acid 70%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31620	32281	1.61	76.82
31647	32281	4.13	73.21
32281	32281	0.00	76.90
34184	32281	8.31	73.25
35904	35904	0.00	72.93

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Guaiazulene 25%, water-soluble**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30857-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Guaiazulene 25%, water-soluble

Special notes

When selecting the *Guaiazulene 25%, water-soluble* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Guaiazulene 25%, water-soluble	6	3	55

Second-stage model

For differentiation of the substance/substance group *Guaiazulene 25%, water-soluble* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Guaiazulene 25%, water-soluble*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Guaiazulene 25%,...	12246703	30857	40	20120831
Caelo	Guaiazulene 25%,...	13334401	31157	40	1411565
Caelo	Guaiazulene 25%,...	14130601	31462	60	20140423
Caelo	Guaiazulene 25%,...	190157	34455	40	20190131*
Caelo	Guaiazulene 25%,...	21002160	35835	50	20210813*
Caelo	Guaiazulene 25%,...	22000637	36398	40	20220511*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 270 spectra of 6 reference samples from the substance/substance group *Guaiazulene 25%, water-soluble*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 229 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Guaiazulene 25%, water-soluble*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Guaiazulene 25%, water-soluble	161905	32321	40
Caelo	Guaiazulene 25%, water-soluble	173365	34100	40
Caelo	Guaiazulene 25%, water-soluble	20001542	34997	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 328 spectra from 176 *Apo-Ident* customers from 59 batches from the substance/substance group *Guaiazulene 25%, water-soluble*.

- Among them are spectra of independent samples from 55 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Guaiazulene 25%, water-soluble	14B12-B07-292053	1
Alliance Healthcare	Guaiazulene 25%, water-soluble	13044901	1
Alliance Healthcare	Guaiazulene 25%, water-soluble	19015703	1
anzag	Guaiazulene 25%, water-soluble	14G24-B03-301884	1
Caelo	Guaiazulene 25%, water-soluble		1
Caelo	Guaiazulene 25%, water-soluble	11060603	1
Caelo	Guaiazulene 25%, water-soluble	11303702	1
Caelo	Guaiazulene 25%, water-soluble	11303703	1
Caelo	Guaiazulene 25%, water-soluble	117I-03150	1
Caelo	Guaiazulene 25%, water-soluble	12019802	1
Caelo	Guaiazulene 25%, water-soluble	12158701	1
Caelo	Guaiazulene 25%, water-soluble	12246701	2
Caelo	Guaiazulene 25%, water-soluble	12246703	3
Caelo	Guaiazulene 25%, water-soluble	12246704	6
Caelo	Guaiazulene 25%, water-soluble	12G31-N03	1
Caelo	Guaiazulene 25%, water-soluble	13044901	8
Caelo	Guaiazulene 25%, water-soluble	13044904	7
Caelo	Guaiazulene 25%, water-soluble	13044906	4
Caelo	Guaiazulene 25%, water-soluble	13334401	6
Caelo	Guaiazulene 25%, water-soluble	13334406	4
Caelo	Guaiazulene 25%, water-soluble	13334407	4
Caelo	Guaiazulene 25%, water-soluble	14130601	10
Caelo	Guaiazulene 25%, water-soluble	14130605	8
Caelo	Guaiazulene 25%, water-soluble	14252102	6
Caelo	Guaiazulene 25%, water-soluble	14252104	7
Caelo	Guaiazulene 25%, water-soluble	15075501	15
Caelo	Guaiazulene 25%, water-soluble	15075503	13
Caelo	Guaiazulene 25%, water-soluble	1514U-03150	1
Caelo	Guaiazulene 25%, water-soluble	1515M-03150	1
Caelo	Guaiazulene 25%, water-soluble	154022302	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Guaiazulene 25%, water-soluble	15402302	11
Caelo	Guaiazulene 25%, water-soluble	15402306	7
Caelo	Guaiazulene 25%, water-soluble	16190502	13
Caelo	Guaiazulene 25%, water-soluble	16190504	11
Caelo	Guaiazulene 25%, water-soluble	17021503	9
Caelo	Guaiazulene 25%, water-soluble	17021508	5
Caelo	Guaiazulene 25%, water-soluble	17041405	1
Caelo	Guaiazulene 25%, water-soluble	17192601	22
Caelo	Guaiazulene 25%, water-soluble	17336503	11
Caelo	Guaiazulene 25%, water-soluble	17336504	12
Caelo	Guaiazulene 25%, water-soluble	17336510	1
Caelo	Guaiazulene 25%, water-soluble	18176704	8
Caelo	Guaiazulene 25%, water-soluble	18176712	3
Caelo	Guaiazulene 25%, water-soluble	19015702	1
Caelo	Guaiazulene 25%, water-soluble	19015703	10
Caelo	Guaiazulene 25%, water-soluble	19015709	2
Caelo	Guaiazulene 25%, water-soluble	192795004	22
Caelo	Guaiazulene 25%, water-soluble	20001542002	7
Caelo	Guaiazulene 25%, water-soluble	20002288004	1
Caelo	Guaiazulene 25%, water-soluble	2011905	1
Caelo	Guaiazulene 25%, water-soluble	21002160001	2
Caelo	Guaiazulene 25%, water-soluble	21002160006	1
Caelo	Guaiazulene 25%, water-soluble	516Q-03150	1
Caelo	Guaiazulene 25%, water-soluble	5217M-03150	1
Caeol/ Noweda	Guaiazulene 25%, water-soluble	15402302	1
Caesar & Loretz GmbH / ...	Guaiazulene 25%, water-soluble	20002288004	1
Caesar & Loretz GmbH Hi...	Guaiazulene 25%, water-soluble	15402306	1
Caesar & Loretz GmbH/ N...	Guaiazulene 25%, water-soluble	19015703	1
Caesar & Loretz GmbH/Je...	Guaiazulene 25%, water-soluble	19015703	1
Caesar & Loretz GmbH/Je...	Guaiazulene 25%, water-soluble	21002160006	1
Caesar & Loretz GmbH/Ph...	Guaiazulene 25%, water-soluble	19015703	1
Caesar & Loretz GmbH	Guaiazulene 25%, water-soluble	19015703	5
Caesar & Loretz GmbH	Guaiazulene 25%, water-soluble	192795004	3
Caesar & Loretz GmbH	Guaiazulene 25%, water-soluble	20001542002	2
Caesar & Loretz GmbH	Guaiazulene 25%, water-soluble	21002160001	2
Ebert & Jacobi	Guaiazulene 25%, water-soluble	17336503	1
Euro OTC	Guaiazulene 25%, water-soluble	13334406	1
Euro OTC	Guaiazulene 25%, water-soluble	17192601	1
Fagron	Guaiazulene 25%, water-soluble	11H30-N03	1
Fagron	Guaiazulene 25%, water-soluble	12G31-N03	1
Fagron	Guaiazulene 25%, water-soluble	13g31-n03	1
Fagron	Guaiazulene 25%, water-soluble	14B12-B07-292053	1
Fagron	Guaiazulene 25%, water-soluble	14G24B03	1
Fagron	Guaiazulene 25%, water-soluble	152716-0001	1
Fagron	Guaiazulene 25%, water-soluble	17021503	1
Fagron	Guaiazulene 25%, water-soluble	513936	1
Gehe	Guaiazulene 25%, water-soluble	13334401	1
Gehe	Guaiazulene 25%, water-soluble	13334406	1
gehe	Guaiazulene 25%, water-soluble	17021503	1
Gehe	Guaiazulene 25%, water-soluble	17021503	1
Noweda	Guaiazulene 25%, water-soluble	13044901	1
Noweda	Guaiazulene 25%, water-soluble	17021508	1
Noweda	Guaiazulene 25%, water-soluble	18176704	1
Noweda	Guaiazulene 25%, water-soluble	19015703	1
Phoenix	Guaiazulene 25%, water-soluble	17021503	1
Phoenix	Guaiazulene 25%, water-soluble	18176704	1
Phönix	Guaiazulene 25%, water-soluble	17336504	1
Phönix	Guaiazulene 25%, water-soluble	192795004	1
Sanacorp	Guaiazulene 25%, water-soluble	12246701	2
Sanacorp	Guaiazulene 25%, water-soluble	14252102	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
sanacorp	Guaiazulene 25%, water-soluble	14G24-B03	1
Sanacorp	Guaiazulene 25%, water-soluble	4/AKD2	1

- 297 130 spectra from 1324 *Apo-Ident* customers from a total of 52 930 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Guaiazulene 25%, water-soluble* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Guaiazulene 25%, water-soluble* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	270	0	68 229
Type B	0	120	0	111 193
Type C	0	328	0	297 130

The substance/substance group *Guaiazulene 25%, water-soluble* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.7778 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 98.1707 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Guaiazulene 25%, water-soluble* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Pasta Cordes®	41.59	–
Permethrin 25% solution	58.80	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Guaiazulene 25%, water-soluble* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30857	31157	2.68	57.84
31157	31157	0.00	58.85
31462	31157	4.39	61.19
34455	34455	0.00	93.54
35835	35835	0.00	59.16
36398	36398	0.00	56.73

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Honeys**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30761-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Honeys; Honey; Mel; Mel rosatum; Rose honey

Special notes

When selecting the *Honeys* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Honeys	9	3	78

Second-stage model

For differentiation of the substance/substance group *Honeys* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Honeys*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Honey	12132005	30761	40	1402562
Caelo	Honey	13269412	31341	40	20130913
Caelo	Honey	150791	32214	40	20150508*
Caelo	Honey	162659	32698	40	20161026*
Caelo	Honey	21001397	35548	50	20210507*
Caelo	Rose honey	15406006	31957	60	20160120
Caelo	Rose honey	16104802	32988	40	1708304
Caelo	Rose honey	171208	33333	40	20170619*
Caelo	Rose honey	20003441	35297	40	20201116*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 390 spectra of 9 reference samples from the substance/substance group *Honeys*. These samples are listed above in the *calibration samples* section. The reference samples come from 9 different batches.
- 68 109 spectra from a total of 1404 batches from further 227 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 200 spectra of 5 reference samples from the substance/substance group *Honeys*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Honey	171325	33718	40
Caelo	Honey	171332	33719	40
Caelo	Rose honey	181215	34050	40
Caelo	Honey	171325	33720	40
Caelo	Rose honey	171208	33721	40

- 111 113 spectra from a total of 2662 batches from further 349 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 147 spectra from 50 *Apo-Ident* customers from 81 batches from the substance/substance group *Honeys*.

- Among them are spectra of independent samples from 77 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Honey	18026703	1
apomix	Honey	13269401	1
Caelo	Rose honey		1
Caelo	Rose honey	11258901	1
Caelo	Rose honey	12105302	1
Caelo	Rose honey	12105305	2
Caelo	Honey	12132007	1
Caelo	Honey	12132012	1
Caelo	Rose honey	12315005	1
Caelo	Honey	12382406	1
Caelo	Rose honey	13170902	2
Caelo	Rose honey	13170904	1
Caelo	Rose honey	13170906	1
Caelo	Honey	13269403	4
Caelo	Honey	13269405	2
Caelo	Honey	13269412	3
Caelo	Honey	13269413	1
Caelo	Rose honey	14125603	1
Caelo	Rose honey	14125605	1
Caelo	Rose honey	14125607	1
Caelo	Honey	15079102	1
Caelo	Honey	15079103	1
Caelo	Honey	15079110	1
Caelo	Honey	15079111	1
Caelo	Rose honey	15406004	2
Caelo	Rose honey	15406005	1
Caelo	Rose honey	15406006	5
Caelo	Honey	15417703	1
Caelo	Honey	15417707	4
Caelo	Honey	15417714	1
Caelo	Rose honey	16104801	1
Caelo	Rose honey	16104803	1
Caelo	Rose honey	16104805	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Honey	16265901	2
Caelo	Honey	16265908	2
Caelo	Rose honey	17120802	1
Caelo	Rose honey	17120803	3
Caelo	Rose honey	1712803	1
Caelo	Honey	17132502	2
Caelo	Honey	18026703	4
Caelo	Rose honey	18121501	3
Caelo	Rose honey	18121502	1
Caelo	Rose honey	18121503	2
Caelo	Rose honey	1812501	1
Caelo	Honey	18173504	3
Caelo	Honey	18173506	1
Caelo	Rose honey	18314201	1
Caelo	Rose honey	18314202	1
Caelo	Rose honey	18314203	1
Caelo	Rose honey	18314205	2
Caelo	Honey	19114702	3
Caelo	Honey	19114705	1
Caelo	Rose honey	192745001	1
Caelo	Honey	20000367006	1
Caelo	Rose honey	20002889002	1
Caelo	Rose honey	20003441001	1
Caelo	Honey	2000445503	1
Caelo	Rose honey	4811M-02884	1
Caelo	Rose honey	5091401	1
Caelo	Honey	9011902	1
Caelo	Honey	L051150	1
Caelo	Honey	L064168	1
Caesar & Loretz GmbH, 4...	Honey	12132011	2
Caesar & Loretz GmbH, 4...	Honey	12382405	3
Caesar & Loretz GmbH, 4...	Honey	12382410	2
Caesar & Loretz GmbH, 4...	Honey	13269401	3
Caesar & Loretz GmbH, 4...	Honey	13269404	1
Caesar & Loretz GmbH	Rose honey	18121501	1
Caesar & Loretz GmbH	Honey	18173504	2
Caesar & Loretz GmbH	Honey	19114705	2
Caesar & Loretz GmbH	Honey	20000367006	2
Caesar & Loretz GmbH	Honey	20000367011	1
Caesar & Loretz GmbH	Honey	20004455003	1
Caesar & Loretz GmbH	Honey	21001397005	1
Caesar & Loretz GmbH	Honey	21004053001	1
Caesar/Fiebig	Honey	18173506	1
Ebert & Jacobi 02.08.16	Rose honey	15406006	1
Fagron	Rose honey	16104802	1
Hedinger/Phönix	Rose honey	17120803	1
L12	Honey	16265909	3
L12	Honey	18026702	3
L12	Honey	18173501	2
L30	Honey	15417714	4
L30	Honey	17132502	1
L30	Honey	17133201	2
L30	Honey	3024337	1
Midas	Honey	16265906	1
Noweda	Honey	15079102	1
Noweda	Honey	16265911	1
Noweda	Honey	18173508	2
Noweda	Honey	19114704	1
Noweda	Honey	19114706	1
Noweda	Honey	20000367005	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Honey	13269403	1
PHÖNIX	Honey	16265901	1

- 297 311 spectra from 1324 *Apo-Ident* customers from a total of 52 907 batches from a further 342 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Honeys* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Honeys* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	390	0	68 109
Type B	0	200	0	111 113
Type C	0	147	0	297 309

The substance/substance group *Honeys* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.4615 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 97.0000 %)
Type C	100.0000 % (> 99.6870 %)	100.0000 % (> 95.9184 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Honeys* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Fennel honey (conserved)	17.31	–
Glycerine ointment (conserved)	22.55	–
Sorbitol, liquid (non crystallising)	26.94	–
Glucose syrup	31.93	–

continued on the next page

continued from previous page

Substanz	Distance in main model	Distance in second-stage model
Glycerol 85%	38.85	–
Raspberry syrup (conserved)	43.11	–
Ipecacuanha syrup (NRF 19.1)	47.99	–
Cherry syrup (conserved)	50.91	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Honeys* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30761	30761	0.00	30.95
31341	30761	7.49	17.31
31957	32988	2.49	26.58
32214	32214	0.00	37.73
32698	32698	0.00	21.53
32988	32988	0.00	25.88
33333	33333	0.00	25.97
35297	35297	0.00	41.54
35548	35548	0.00	63.92

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Hydrophilic base emulsion (NRF p.25)**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30709-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Hydrophilic base emulsion (NRF p.25); Emulsio basalis hydrophilica

Special notes

When selecting the *Hydrophilic base emulsion (NRF p.25)* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Hydrophilic base emulsion (NRF p.25)	17	31	353

Second-stage model

For differentiation of the substance/substance group *Hydrophilic base emulsion (NRF p.25)* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Hydrophilic base emulsion (NRF p.25)*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Hydrophilic base...	12173002	30709	40	20120628
Caelo	Hydrophilic base...	13305501	31176	40	1403535
Caelo	Hydrophilic base...	14063502	31340	20	20140307
Caelo	Hydrophilic base...	161156	32290	40	20160415*
Caelo	Hydrophilic base...	161155	32291	40	20160415*
Caelo	Hydrophilic base...	161154	32292	40	20160415*
Caelo	Hydrophilic base...	170444	33154	40	20170217*
Caelo	Hydrophilic base...	170443	33155	40	20170217*
Caelo	Hydrophilic base...	163400	33156	40	20161215*
Caelo	Hydrophilic base...	163398	33157	40	20161215*
Caelo	Hydrophilic base...	183112	34536	40	20181220*
Caelo	Hydrophilic base...	183113	34537	40	20181220*
Caelo	Hydrophilic base...	190281	34538	40	20190306*
Caelo	Hydrophilic base...	190282	34539	40	20190306*
Caelo	Hydrophilic base...	21002117	35595	50	20210805*
Caelo	Hydrophilic base...	21003960	35949	40	20220111*
Caelo	Hydrophilic base...	21003961	35950	40	20220111*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 670 spectra of 17 reference samples from the substance/substance group *Hydrophilic base emulsion (NRF p.25)*. These samples are listed above in the *calibration samples* section. The reference samples come from 17 different batches.

- 67 829 spectra from a total of 1396 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 1290 spectra of 32 reference samples from the substance/substance group *Hydrophilic base emulsion (NRF p.25)*.
- Among them are spectra of independent samples from 31 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Hydrophilic base emulsion (N...	163399	33158	40
Caelo	Hydrophilic base emulsion (N...	171184	33412	40
Caelo	Hydrophilic base emulsion (N...	171247	33413	40
Caelo	Hydrophilic base emulsion (N...	171182	33414	40
Caelo	Hydrophilic base emulsion (N...	171183	33415	40
Caelo	Hydrophilic base emulsion (N...	171702	33573	40
Caelo	Hydrophilic base emulsion (N...	171703	33574	40
Caelo	Hydrophilic base emulsion (N...	173421	33971	40
Caelo	Hydrophilic base emulsion (N...	180316	34133	40
Caelo	Hydrophilic base emulsion (N...	181075	34134	40
Caelo	Hydrophilic base emulsion (N...	181806	34248	40
Caelo	Hydrophilic base emulsion (N...	182588	34313	40
Caelo	Hydrophilic base emulsion (N...	191402	34769	40
Caelo	Hydrophilic base emulsion (N...	191809	34770	40
Caelo	Hydrophilic base emulsion (N...	192047	34774	40
Caelo	Hydrophilic base emulsion (N...	20000295	34971	40
Caelo	Hydrophilic base emulsion (N...	20001762	34972	40
Caelo	Hydrophilic base emulsion (N...	20002078	35115	40
Caelo	Hydrophilic base emulsion (N...	21000737	35304	40
Caelo	Hydrophilic base emulsion (N...	21000345	35305	40
Caelo	Hydrophilic base emulsion (N...	21000346	35306	40
Caelo	Hydrophilic base emulsion (N...	21000347	35481	40
Caelo	Hydrophilic base emulsion (N...	21001238	35516	50
Caelo	Hydrophilic base emulsion (N...	21001239	35517	50
Caelo	Hydrophilic base emulsion (N...	21002118	35596	50
Caelo	Hydrophilic base emulsion (N...	21002119	35597	50
Caelo	Hydrophilic base emulsion (N...	21003084	35792	50
Caelo	Hydrophilic base emulsion (N...	21003085	35793	50
Caelo	Hydrophilic base emulsion (N...	21003962	35951	40
Caelo	Hydrophilic base emulsion (N...	22001291	36472	40
Caelo	Hydrophilic base emulsion (N...	22001292	36473	10
Caelo	Hydrophilic base emulsion (N...	14063502	31340†	20

- 110 023 spectra from a total of 2634 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

†These spectra were recorded from material of the same package as the corresponding calibration spectra (*Type A*). Hence, these spectra are not independent and are not of *Type B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 3843 spectra from 679 *Apo-Ident* customers from 358 batches from the substance/substance group *Hydrophilic base emulsion (NRF p.25)*.
- Among them are spectra of independent samples from 352 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Hydrophilic base emulsion (N...	20002079001	1
06,15	Hydrophilic base emulsion (N...	13394302	1
AEP	Hydrophilic base emulsion (N...	18031601	2
AHC 15.08.13 EK4,56	Hydrophilic base emulsion (N...	13107703	1
AHD	Hydrophilic base emulsion (N...	14063502	2
aliance healthcare 5.12...	Hydrophilic base emulsion (N...	13305501	1
Allianc. Health. /ca	Hydrophilic base emulsion (N...	16264202	1
Alliance H.	Hydrophilic base emulsion (N...	16340001	1
Alliance Health 23.01.2...	Hydrophilic base emulsion (N...	13394302	2
Alliance health	Hydrophilic base emulsion (N...	14360201	2
Allianz Healthcare	Hydrophilic base emulsion (N...	16340001	1
Anzag 03.04.13 ek: 4,56EUR	Hydrophilic base emulsion (N...	13039701	4
Anzag 19.12.12 ek:4,33	Hydrophilic base emulsion (N...	12310102	3
Anzag 27.11.12 ek:4,33	Hydrophilic base emulsion (N...	12230301	1
Anzag	Hydrophilic base emulsion (N...	14239103	1
Anzag	Hydrophilic base emulsion (N...	16115602	1
Anzag	Hydrophilic base emulsion (N...	17044401	1
Anzag	Hydrophilic base emulsion (N...	17170301	1
Anzag	Hydrophilic base emulsion (N...	18258801	1
Anzag	Hydrophilic base emulsion (N...	19181001	1
Anzag	Hydrophilic base emulsion (N...	19181101	1
Apotheke Lützelbach	Hydrophilic base emulsion (N...	2718Q-03325	1
Bayvers	Hydrophilic base emulsion (N...	17124702	2
Bombastus	Hydrophilic base emulsion (N...	1288103	1
Bombastus	Hydrophilic base emulsion (N...	15337601	4
Bombastus	Hydrophilic base emulsion (N...	17227001	1
Bombastus	Hydrophilic base emulsion (N...	1825801	1
Caello/Phönix	Hydrophilic base emulsion (N...	16249302	6
Caelo	Hydrophilic base emulsion (N...		3
Caelo	Hydrophilic base emulsion (N...	10051303	1
Caelo	Hydrophilic base emulsion (N...	10071203	1
Caelo	Hydrophilic base emulsion (N...	10082013A	1
Caelo	Hydrophilic base emulsion (N...	1071602	1
Caelo	Hydrophilic base emulsion (N...	10831701	1
Caelo	Hydrophilic base emulsion (N...	11031504	1
Caelo	Hydrophilic base emulsion (N...	11274001	1
Caelo	Hydrophilic base emulsion (N...	11274003	1
Caelo	Hydrophilic base emulsion (N...	12071901	4
Caelo	Hydrophilic base emulsion (N...	12072002	2
Caelo	Hydrophilic base emulsion (N...	12091802	1
Caelo	Hydrophilic base emulsion (N...	12121308	1
Caelo	Hydrophilic base emulsion (N...	12128401	5
Caelo	Hydrophilic base emulsion (N...	1213003	1
Caelo	Hydrophilic base emulsion (N...	12173002	5
Caelo	Hydrophilic base emulsion (N...	12173003	1
Caelo	Hydrophilic base emulsion (N...	1218401	1
Caelo	Hydrophilic base emulsion (N...	12230203	5
Caelo	Hydrophilic base emulsion (N...	12230301	8
Caelo	Hydrophilic base emulsion (N...	12230302	4
Caelo	Hydrophilic base emulsion (N...	12288103	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic base emulsion (N...	12295002	1
Caelo	Hydrophilic base emulsion (N...	12310101	11
Caelo	Hydrophilic base emulsion (N...	12310102	16
Caelo	Hydrophilic base emulsion (N...	13039701	15
Caelo	Hydrophilic base emulsion (N...	13039702	2
Caelo	Hydrophilic base emulsion (N...	1306801	1
Caelo	Hydrophilic base emulsion (N...	13076702	12
Caelo	Hydrophilic base emulsion (N...	13076801	18
Caelo	Hydrophilic base emulsion (N...	13076802	1
Caelo	Hydrophilic base emulsion (N...	13076803	19
Caelo	Hydrophilic base emulsion (N...	13107702	1
Caelo	Hydrophilic base emulsion (N...	13107703	18
Caelo	Hydrophilic base emulsion (N...	1310773	2
Caelo	Hydrophilic base emulsion (N...	1316Q-03325	1
Caelo	Hydrophilic base emulsion (N...	13195801	10
Caelo	Hydrophilic base emulsion (N...	13195901	20
Caelo	Hydrophilic base emulsion (N...	13195902	4
Caelo	Hydrophilic base emulsion (N...	13196001	11
Caelo	Hydrophilic base emulsion (N...	13305401	32
Caelo	Hydrophilic base emulsion (N...	13305501	5
Caelo	Hydrophilic base emulsion (N...	13305503	5
Caelo	Hydrophilic base emulsion (N...	13305601	10
Caelo	Hydrophilic base emulsion (N...	13394302	10
Caelo	Hydrophilic base emulsion (N...	13394303	1
Caelo	Hydrophilic base emulsion (N...	13394304	11
Caelo	Hydrophilic base emulsion (N...	13394402	4
Caelo	Hydrophilic base emulsion (N...	13397601	46
Caelo	Hydrophilic base emulsion (N...	13730153	1
Caelo	Hydrophilic base emulsion (N...	14063502	14
Caelo	Hydrophilic base emulsion (N...	14063503	1
Caelo	Hydrophilic base emulsion (N...	14063601	27
Caelo	Hydrophilic base emulsion (N...	14063702	10
Caelo	Hydrophilic base emulsion (N...	14140901	12
Caelo	Hydrophilic base emulsion (N...	14141003	4
Caelo	Hydrophilic base emulsion (N...	14141004	15
Caelo	Hydrophilic base emulsion (N...	14238101	1
Caelo	Hydrophilic base emulsion (N...	14238701	11
Caelo	Hydrophilic base emulsion (N...	14238702	4
Caelo	Hydrophilic base emulsion (N...	14238801	19
Caelo	Hydrophilic base emulsion (N...	14238802	6
Caelo	Hydrophilic base emulsion (N...	14238901	34
Caelo	Hydrophilic base emulsion (N...	14239002	3
Caelo	Hydrophilic base emulsion (N...	14239103	7
Caelo	Hydrophilic base emulsion (N...	1428901	2
Caelo	Hydrophilic base emulsion (N...	14351202	7
Caelo	Hydrophilic base emulsion (N...	14360201	17
Caelo	Hydrophilic base emulsion (N...	14360202	4
Caelo	Hydrophilic base emulsion (N...	14360301	32
Caelo	Hydrophilic base emulsion (N...	14360401	3
Caelo	Hydrophilic base emulsion (N...	14360403	7
Caelo	Hydrophilic base emulsion (N...	1463502	1
Caelo	Hydrophilic base emulsion (N...	15029901	1
Caelo	Hydrophilic base emulsion (N...	15061302	1
Caelo	Hydrophilic base emulsion (N...	1507002	1
Caelo	Hydrophilic base emulsion (N...	15076803	9
Caelo	Hydrophilic base emulsion (N...	15076901	14
Caelo	Hydrophilic base emulsion (N...	15077002	12
Caelo	Hydrophilic base emulsion (N...	15077003	5
Caelo	Hydrophilic base emulsion (N...	1507702	1
Caelo	Hydrophilic base emulsion (N...	15077101	32

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic base emulsion (N...	15081402	1
Caelo	Hydrophilic base emulsion (N...	1514U-03325	1
Caelo	Hydrophilic base emulsion (N...	1515J-03325	1
Caelo	Hydrophilic base emulsion (N...	152009902	1
Caelo	Hydrophilic base emulsion (N...	15209801	23
Caelo	Hydrophilic base emulsion (N...	15209901	15
Caelo	Hydrophilic base emulsion (N...	15209902	8
Caelo	Hydrophilic base emulsion (N...	152100001	1
Caelo	Hydrophilic base emulsion (N...	15210001	19
Caelo	Hydrophilic base emulsion (N...	15255816	1
Caelo	Hydrophilic base emulsion (N...	153337801	1
Caelo	Hydrophilic base emulsion (N...	15337301	34
Caelo	Hydrophilic base emulsion (N...	15337601	11
Caelo	Hydrophilic base emulsion (N...	15337602	5
Caelo	Hydrophilic base emulsion (N...	15337701	11
Caelo	Hydrophilic base emulsion (N...	15337801	30
Caelo	Hydrophilic base emulsion (N...	1537301	1
Caelo	Hydrophilic base emulsion (N...	15439801	37
Caelo	Hydrophilic base emulsion (N...	15439901	10
Caelo	Hydrophilic base emulsion (N...	15440001	30
Caelo	Hydrophilic base emulsion (N...	15440002	8
Caelo	Hydrophilic base emulsion (N...	15440101	25
Caelo	Hydrophilic base emulsion (N...	154401014	1
Caelo	Hydrophilic base emulsion (N...	15440102	5
Caelo	Hydrophilic base emulsion (N...	15442001	1
Caelo	Hydrophilic base emulsion (N...	16071701	1
Caelo	Hydrophilic base emulsion (N...	16091701	1
Caelo	Hydrophilic base emulsion (N...	161115401	1
Caelo	Hydrophilic base emulsion (N...	16115302	14
Caelo	Hydrophilic base emulsion (N...	16115303	11
Caelo	Hydrophilic base emulsion (N...	16115401	9
Caelo	Hydrophilic base emulsion (N...	16115602	53
Caelo	Hydrophilic base emulsion (N...	1624101	1
Caelo	Hydrophilic base emulsion (N...	1624202	1
Caelo	Hydrophilic base emulsion (N...	162433201	1
Caelo	Hydrophilic base emulsion (N...	16244101	1
Caelo	Hydrophilic base emulsion (N...	16249201	24
Caelo	Hydrophilic base emulsion (N...	16249202	6
Caelo	Hydrophilic base emulsion (N...	16249301	18
Caelo	Hydrophilic base emulsion (N...	16249302	7
Caelo	Hydrophilic base emulsion (N...	162640101	1
Caelo	Hydrophilic base emulsion (N...	16264101	43
Caelo	Hydrophilic base emulsion (N...	16264101/1310117	1
Caelo	Hydrophilic base emulsion (N...	16264201	6
Caelo	Hydrophilic base emulsion (N...	16264202	9
Caelo	Hydrophilic base emulsion (N...	16264203	1
Caelo	Hydrophilic base emulsion (N...	16325801	1
Caelo	Hydrophilic base emulsion (N...	1633901	1
Caelo	Hydrophilic base emulsion (N...	16339801	14
Caelo	Hydrophilic base emulsion (N...	16339901	66
Caelo	Hydrophilic base emulsion (N...	16340001	11
Caelo	Hydrophilic base emulsion (N...	16340002	4
Caelo	Hydrophilic base emulsion (N...	1634001	1
Caelo	Hydrophilic base emulsion (N...	1634002	1
Caelo	Hydrophilic base emulsion (N...	1704401	1
Caelo	Hydrophilic base emulsion (N...	17044301	5
Caelo	Hydrophilic base emulsion (N...	17044401	41
Caelo	Hydrophilic base emulsion (N...	17061705	1
Caelo	Hydrophilic base emulsion (N...	1710301	1
Caelo	Hydrophilic base emulsion (N...	17118301	36

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic base emulsion (N...	17118401	12
Caelo	Hydrophilic base emulsion (N...	17124102	1
Caelo	Hydrophilic base emulsion (N...	17124701	5
Caelo	Hydrophilic base emulsion (N...	17124701-20170818Ma9	1
Caelo	Hydrophilic base emulsion (N...	17124702	30
Caelo	Hydrophilic base emulsion (N...	17124703	7
Caelo	Hydrophilic base emulsion (N...	17170101	9
Caelo	Hydrophilic base emulsion (N...	17170201	11
Caelo	Hydrophilic base emulsion (N...	17170301	62
Caelo	Hydrophilic base emulsion (N...	17226801	66
Caelo	Hydrophilic base emulsion (N...	172268021	1
Caelo	Hydrophilic base emulsion (N...	17226903	30
Caelo	Hydrophilic base emulsion (N...	17227001	14
Caelo	Hydrophilic base emulsion (N...	1726903	1
Caelo	Hydrophilic base emulsion (N...	173420101	1
Caelo	Hydrophilic base emulsion (N...	17342101	65
Caelo	Hydrophilic base emulsion (N...	17342202	34
Caelo	Hydrophilic base emulsion (N...	17342203	5
Caelo	Hydrophilic base emulsion (N...	17342301	16
Caelo	Hydrophilic base emulsion (N...	1762001	2
Caelo	Hydrophilic base emulsion (N...	17A007	1
Caelo	Hydrophilic base emulsion (N...	1801702	1
Caelo	Hydrophilic base emulsion (N...	18031601	16
Caelo	Hydrophilic base emulsion (N...	18031701	72
Caelo	Hydrophilic base emulsion (N...	18031802	17
Caelo	Hydrophilic base emulsion (N...	18081512	1
Caelo	Hydrophilic base emulsion (N...	181007602	1
Caelo	Hydrophilic base emulsion (N...	181070602	1
Caelo	Hydrophilic base emulsion (N...	18107501	76
Caelo	Hydrophilic base emulsion (N...	18107601	2
Caelo	Hydrophilic base emulsion (N...	18107602	35
Caelo	Hydrophilic base emulsion (N...	18107603	26
Caelo	Hydrophilic base emulsion (N...	18107604	4
Caelo	Hydrophilic base emulsion (N...	18107701	16
Caelo	Hydrophilic base emulsion (N...	18111307	1
Caelo	Hydrophilic base emulsion (N...	18180601	41
Caelo	Hydrophilic base emulsion (N...	18180603	3
Caelo	Hydrophilic base emulsion (N...	1818061	1
Caelo	Hydrophilic base emulsion (N...	18180701	27
Caelo	Hydrophilic base emulsion (N...	18180702	12
Caelo	Hydrophilic base emulsion (N...	18258801	57
Caelo	Hydrophilic base emulsion (N...	18258901	23
Caelo	Hydrophilic base emulsion (N...	18258902	1
Caelo	Hydrophilic base emulsion (N...	18258903	2
Caelo	Hydrophilic base emulsion (N...	182589901	1
Caelo	Hydrophilic base emulsion (N...	18259001	12
Caelo	Hydrophilic base emulsion (N...	18289001	1
Caelo	Hydrophilic base emulsion (N...	1831102	1
Caelo	Hydrophilic base emulsion (N...	18311030	2
Caelo	Hydrophilic base emulsion (N...	18311202	17
Caelo	Hydrophilic base emulsion (N...	18311301	9
Caelo	Hydrophilic base emulsion (N...	18311302	42
Caelo	Hydrophilic base emulsion (N...	18311303	1
Caelo	Hydrophilic base emulsion (N...	185259001	1
Caelo	Hydrophilic base emulsion (N...	18724210003461	3
Caelo	Hydrophilic base emulsion (N...	1874210003461	1
Caelo	Hydrophilic base emulsion (N...	19021803	1
Caelo	Hydrophilic base emulsion (N...	1902801	1
Caelo	Hydrophilic base emulsion (N...	19028101	61
Caelo	Hydrophilic base emulsion (N...	1902810119225601	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic base emulsion (N...	19028201	21
Caelo	Hydrophilic base emulsion (N...	19028202	11
Caelo	Hydrophilic base emulsion (N...	19041711	1
Caelo	Hydrophilic base emulsion (N...	19091204	1
Caelo	Hydrophilic base emulsion (N...	1911001	2
Caelo	Hydrophilic base emulsion (N...	19140001	1
Caelo	Hydrophilic base emulsion (N...	19140101	33
Caelo	Hydrophilic base emulsion (N...	19140102	47
Caelo	Hydrophilic base emulsion (N...	191401020	1
Caelo	Hydrophilic base emulsion (N...	19140120	1
Caelo	Hydrophilic base emulsion (N...	191401202	1
Caelo	Hydrophilic base emulsion (N...	19140201	5
Caelo	Hydrophilic base emulsion (N...	1918001	1
Caelo	Hydrophilic base emulsion (N...	19180901	20
Caelo	Hydrophilic base emulsion (N...	19181001	67
Caelo	Hydrophilic base emulsion (N...	19181101	17
Caelo	Hydrophilic base emulsion (N...	19204701	1
Caelo	Hydrophilic base emulsion (N...	19225501	10
Caelo	Hydrophilic base emulsion (N...	19225601	52
Caelo	Hydrophilic base emulsion (N...	1928203	1
Caelo	Hydrophilic base emulsion (N...	192827001	37
Caelo	Hydrophilic base emulsion (N...	192827002	7
Caelo	Hydrophilic base emulsion (N...	19282701	1
Caelo	Hydrophilic base emulsion (N...	200000295001	3
Caelo	Hydrophilic base emulsion (N...	20000090001	1
Caelo	Hydrophilic base emulsion (N...	200001763002	1
Caelo	Hydrophilic base emulsion (N...	200002950001	1
Caelo	Hydrophilic base emulsion (N...	20000295001	57
Caelo	Hydrophilic base emulsion (N...	20000296001	1
Caelo	Hydrophilic base emulsion (N...	20000296002	2
Caelo	Hydrophilic base emulsion (N...	200002985001	1
Caelo	Hydrophilic base emulsion (N...	200009	1
Caelo	Hydrophilic base emulsion (N...	20000918001	5
Caelo	Hydrophilic base emulsion (N...	20000919001	3
Caelo	Hydrophilic base emulsion (N...	20000920001	11
Caelo	Hydrophilic base emulsion (N...	2000092001	1
Caelo	Hydrophilic base emulsion (N...	20000921001	43
Caelo	Hydrophilic base emulsion (N...	2000092101	1
Caelo	Hydrophilic base emulsion (N...	20000922001	31
Caelo	Hydrophilic base emulsion (N...	20000922002	5
Caelo	Hydrophilic base emulsion (N...	20000922003	21
Caelo	Hydrophilic base emulsion (N...	2000092201	1
Caelo	Hydrophilic base emulsion (N...	2000092202	1
Caelo	Hydrophilic base emulsion (N...	2000092203	1
Caelo	Hydrophilic base emulsion (N...	200009222003	2
Caelo	Hydrophilic base emulsion (N...	200009296002	1
Caelo	Hydrophilic base emulsion (N...	2000095001	1
Caelo	Hydrophilic base emulsion (N...	20001762001	6
Caelo	Hydrophilic base emulsion (N...	20001763001	2
Caelo	Hydrophilic base emulsion (N...	20001763002	38
Caelo	Hydrophilic base emulsion (N...	20002078002	2
Caelo	Hydrophilic base emulsion (N...	20002079001	13
Caelo	Hydrophilic base emulsion (N...	20002079002	17
Caelo	Hydrophilic base emulsion (N...	20002079003	2
Caelo	Hydrophilic base emulsion (N...	2000314001	1
Caelo	Hydrophilic base emulsion (N...	2000314002	1
Caelo	Hydrophilic base emulsion (N...	20003313001	1
Caelo	Hydrophilic base emulsion (N...	20003314001	30
Caelo	Hydrophilic base emulsion (N...	2000331400106138395	1
Caelo	Hydrophilic base emulsion (N...	20003314002	12

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic base emulsion (N...	2000919001	1
Caelo	Hydrophilic base emulsion (N...	2000922001	1
Caelo	Hydrophilic base emulsion (N...	2002079002	1
Caelo	Hydrophilic base emulsion (N...	20031306	1
Caelo	Hydrophilic base emulsion (N...	20061407	1
Caelo	Hydrophilic base emulsion (N...	2061501	1
Caelo	Hydrophilic base emulsion (N...	21000345001	8
Caelo	Hydrophilic base emulsion (N...	21000346001	40
Caelo	Hydrophilic base emulsion (N...	21000347001	5
Caelo	Hydrophilic base emulsion (N...	21000737002	9
Caelo	Hydrophilic base emulsion (N...	21001238002	21
Caelo	Hydrophilic base emulsion (N...	21001239001	2
Caelo	Hydrophilic base emulsion (N...	21001239002	7
Caelo	Hydrophilic base emulsion (N...	21002117001	3
Caelo	Hydrophilic base emulsion (N...	210021180001	1
Caelo	Hydrophilic base emulsion (N...	21002118001	21
Caelo	Hydrophilic base emulsion (N...	21002119002	5
Caelo	Hydrophilic base emulsion (N...	21002119003	2
Caelo	Hydrophilic base emulsion (N...	21003084001	10
Caelo	Hydrophilic base emulsion (N...	21003085002	5
Caelo	Hydrophilic base emulsion (N...	21003085003	1
Caelo	Hydrophilic base emulsion (N...	2100346001	1
Caelo	Hydrophilic base emulsion (N...	21003960001	8
Caelo	Hydrophilic base emulsion (N...	21003961002	2
Caelo	Hydrophilic base emulsion (N...	2101304	1
Caelo	Hydrophilic base emulsion (N...	2102118001	1
Caelo	Hydrophilic base emulsion (N...	21031403	1
Caelo	Hydrophilic base emulsion (N...	21031704	1
Caelo	Hydrophilic base emulsion (N...	21081705	1
Caelo	Hydrophilic base emulsion (N...	2201291001	1
Caelo	Hydrophilic base emulsion (N...	22042015A	1
Caelo	Hydrophilic base emulsion (N...	220621(21003961002)	1
Caelo	Hydrophilic base emulsion (N...	23011503	1
Caelo	Hydrophilic base emulsion (N...	23051803	1
Caelo	Hydrophilic base emulsion (N...	23062015D	1
Caelo	Hydrophilic base emulsion (N...	23071507	1
Caelo	Hydrophilic base emulsion (N...	23101202	1
Caelo	Hydrophilic base emulsion (N...	24011403	1
Caelo	Hydrophilic base emulsion (N...	25041803	1
Caelo	Hydrophilic base emulsion (N...	2517M-03325	1
Caelo	Hydrophilic base emulsion (N...	26031302	1
Caelo	Hydrophilic base emulsion (N...	2737	1
Caelo	Hydrophilic base emulsion (N...	2811	1
Caelo	Hydrophilic base emulsion (N...	28111203	1
Caelo	Hydrophilic base emulsion (N...	28111808	1
Caelo	Hydrophilic base emulsion (N...	28121206	1
Caelo	Hydrophilic base emulsion (N...	2897	1
Caelo	Hydrophilic base emulsion (N...	29041406	1
Caelo	Hydrophilic base emulsion (N...	29041502	1
Caelo	Hydrophilic base emulsion (N...	29101402	1
Caelo	Hydrophilic base emulsion (N...	2x18107602	1
Caelo	Hydrophilic base emulsion (N...	2x18258901	1
Caelo	Hydrophilic base emulsion (N...	2x192827001	1
Caelo	Hydrophilic base emulsion (N...	30011504	1
Caelo	Hydrophilic base emulsion (N...	30041304	1
Caelo	Hydrophilic base emulsion (N...	30051501	1
Caelo	Hydrophilic base emulsion (N...	30081803	1
Caelo	Hydrophilic base emulsion (N...	3140817	1
Caelo	Hydrophilic base emulsion (N...	3310	1
Caelo	Hydrophilic base emulsion (N...	6051304	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic base emulsion (N…	6115401	1
Caelo	Hydrophilic base emulsion (N…	6121702	1
Caelo	Hydrophilic base emulsion (N…	9061831	1
Caelo	Hydrophilic base emulsion (N…	9081301	1
Caelo	Hydrophilic base emulsion (N…	914E-03325	1
Caelo	Hydrophilic base emulsion (N…	9225601	1
Caelo	Hydrophilic base emulsion (N…	CH-B17342101	1
Caeo/Noweda	Hydrophilic base emulsion (N…	15440001	1
Caesar & Lorenz GmbH	Hydrophilic base emulsion (N…	17342101	1
Caesar & Lorenz GmbH	Hydrophilic base emulsion (N…	192827001	1
Caesar & Lorenz	Hydrophilic base emulsion (N…	13195901	1
Caesar & Lorenz	Hydrophilic base emulsion (N…	14238901	1
Caesar & Loretz GmbH / …	Hydrophilic base emulsion (N…	19140102	1
Caesar & Loretz GmbH / …	Hydrophilic base emulsion (N…	16339901	1
Caesar & Loretz GmbH / …	Hydrophilic base emulsion (N…	17342101	1
Caesar & Loretz GmbH / …	Hydrophilic base emulsion (N…	18311302	1
Caesar & Loretz GmbH / …	Hydrophilic base emulsion (N…	18311302	1
Caesar & Loretz GmbH / …	Hydrophilic base emulsion (N…	21001238002	1
Caesar & Loretz GmbH / …	Hydrophilic base emulsion (N…	16264201	2
Caesar & Loretz GmbH / …	Hydrophilic base emulsion (N…	18258901	2
Caesar & Loretz GmbH / …	Hydrophilic base emulsion (N…	21003961003	3
Caesar & Loretz GmbH Hi…	Hydrophilic base emulsion (N…	15439801	1
Caesar & Loretz GmbH Hi…	Hydrophilic base emulsion (N…	16115602	1
Caesar & Loretz GmbH Hi…	Hydrophilic base emulsion (N…	16151602	1
Caesar & Loretz GmbH, 4…	Hydrophilic base emulsion (N…	12310101	1
Caesar & Loretz GmbH, 4…	Hydrophilic base emulsion (N…	13107703	1
Caesar & Loretz GmbH/ G…	Hydrophilic base emulsion (N…	20000922001	1
Caesar & Loretz GmbH/ G…	Hydrophilic base emulsion (N…	20002079001	2
Caesar & Loretz GmbH/ G…	Hydrophilic base emulsion (N…	21000737003	1
Caesar & Loretz GmbH/ P…	Hydrophilic base emulsion (N…	19181001	1
Caesar & Loretz GmbH/ P…	Hydrophilic base emulsion (N…	21003962001	1
Caesar & Loretz GmbH/AHD	Hydrophilic base emulsion (N…	20000922001	1
Caesar & Loretz GmbH/AHD	Hydrophilic base emulsion (N…	20002078002	1
Caesar & Loretz GmbH/AHD	Hydrophilic base emulsion (N…	21000347001	1
Caesar & Loretz GmbH/Al…	Hydrophilic base emulsion (N…	19225601	3
Caesar & Loretz GmbH/Al…	Hydrophilic base emulsion (N…	20001762001	1
Caesar & Loretz GmbH/Fi…	Hydrophilic base emulsion (N…	19180901	1
Caesar & Loretz GmbH/Fi…	Hydrophilic base emulsion (N…	19181101	1
Caesar & Loretz GmbH/Fi…	Hydrophilic base emulsion (N…	19225501	1
Caesar & Loretz GmbH/Fi…	Hydrophilic base emulsion (N…	20001762001	1
Caesar & Loretz GmbH/Fi…	Hydrophilic base emulsion (N…	20001763002	1
Caesar & Loretz GmbH/Fi…	Hydrophilic base emulsion (N…	20003314001	2
Caesar & Loretz GmbH/Fi…	Hydrophilic base emulsion (N…	21001239001	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	18258901	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	18311202	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	19028101	5
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	19028201	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	19028202	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	19140102	4
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	19181001	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	19225601	8
Caesar & Loretz GmbH/GEHE	Hydrophilic base emulsion (N…	19225601	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	192827001	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	192827002	3
Caesar & Loretz GmbH/GEHE	Hydrophilic base emulsion (N…	200002921001	1
Caesar & Loretz GmbH/GEHE	Hydrophilic base emulsion (N…	20000295001	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	20000296002	2
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	20000921001	2
Caesar & Loretz GmbH/GEHE	Hydrophilic base emulsion (N…	20000921001	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	20000922002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	20001762001	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	20001763002	1
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	20003314001	9
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	21000347001	2
Caesar & Loretz GmbH/Gehe	Hydrophilic base emulsion (N…	21001239001	1
Caesar & Loretz GmbH/GEHE	Hydrophilic base emulsion (N…	21002118001	1
Caesar & Loretz GmbH/Ge…	Hydrophilic base emulsion (N…	20000921001	1
Caesar & Loretz GmbH/Je…	Hydrophilic base emulsion (N…	20000922001	1
Caesar & Loretz GmbH/Kehr	Hydrophilic base emulsion (N…	19225601	2
Caesar & Loretz GmbH/kehr	Hydrophilic base emulsion (N…	20002079001	1
Caesar & Loretz GmbH/Kehr	Hydrophilic base emulsion (N…	21002118001	1
Caesar & Loretz GmbH/Mi…	Hydrophilic base emulsion (N…	19028101	1
Caesar & Loretz GmbH/No…	Hydrophilic base emulsion (N…	19181001	1
Caesar & Loretz GmbH/No…	Hydrophilic base emulsion (N…	20000919001	1
Caesar & Loretz GmbH/No…	Hydrophilic base emulsion (N…	20000922001	1
Caesar & Loretz GmbH/No…	Hydrophilic base emulsion (N…	21000345001	1
Caesar & Loretz GmbH/No…	Hydrophilic base emulsion (N…	21000737002	1
Caesar & Loretz GmbH/No…	Hydrophilic base emulsion (N…	21001238002	1
Caesar & Loretz GmbH/No…	Hydrophilic base emulsion (N…	21002117001	1
Caesar & Loretz GmbH/No…	Hydrophilic base emulsion (N…	21002118001	1
Caesar & Loretz GmbH/No…	Hydrophilic base emulsion (N…	21003084001	2
Caesar & Loretz GmbH/Phoe	Hydrophilic base emulsion (N…	21001238002	1
Caesar & Loretz GmbH/Ph…	Hydrophilic base emulsion (N…	19140201	1
Caesar & Loretz GmbH/Ph…	Hydrophilic base emulsion (N…	19180901	2
Caesar & Loretz GmbH/Ph…	Hydrophilic base emulsion (N…	19225601	1
Caesar & Loretz GmbH/ph…	Hydrophilic base emulsion (N…	20000919	1
Caesar & Loretz GmbH/Ph…	Hydrophilic base emulsion (N…	200009200	1
Caesar & Loretz GmbH/Ph…	Hydrophilic base emulsion (N…	20000921001	1
Caesar & Loretz GmbH/Ph…	Hydrophilic base emulsion (N…	20001762001	1
Caesar & Loretz GmbH/Ph…	Hydrophilic base emulsion (N…	21000346001	2
Caesar & Loretz GmbH/Sana	Hydrophilic base emulsion (N…	21001239001	3
Caesar & Loretz GmbH/Sa…	Hydrophilic base emulsion (N…	19140102	1
Caesar & Loretz GmbH/Sa…	Hydrophilic base emulsion (N…	19181001	4
Caesar & Loretz GmbH/Sa…	Hydrophilic base emulsion (N…	19225501	3
Caesar & Loretz GmbH/Sa…	Hydrophilic base emulsion (N…	20000922003	1
Caesar & Loretz GmbH/Sa…	Hydrophilic base emulsion (N…	20003314001	2
caesar & Loretz GmbH	Hydrophilic base emulsion (N…	13394304	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	15077002	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18107501	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18180601	3
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18180701	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18180702	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18258801	11
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18258901	3
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18259001	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18311202	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18311301	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18311302	8
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	18311303	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19028101	10
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19028201	4
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19028202	5
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19140101	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19140102	7
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19140201	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19180901	9
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19181001	15
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19181101	5
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19225501	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19225601	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	192827001	8
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	192827002	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	19282703	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20000295001	18
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20000296002	3
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20000919001	9
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20000920001	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20000921001	19
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20000922001	6
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20000922002	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20000922003	3
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20001762001	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20001763002	10
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20002078002	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20002079001	4
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20002079002	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20002079003	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20003313002	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20003314001	9
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	20003314002	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	2002079001	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21000345001	3
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21000346001	6
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21000347001	3
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21000737002	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21001238002	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21001239001	3
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21001239002	3
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21002117001	4
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21002118001	7
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21003084001	5
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21003085002	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21003085003	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21003960001	2
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21003961002	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	21003961003	1
Caesar & Loretz GmbH	Hydrophilic base emulsion (N…	22001292003	1
Caesar & Loretz/AHD	Hydrophilic base emulsion (N…	16249201	1
Caesar & Loretz/AHD	Hydrophilic base emulsion (N…	20000922001	2
Caesar & Loretz	Hydrophilic base emulsion (N…	13195801	1
caesar & loretz	Hydrophilic base emulsion (N…	16115302	1
Caesar & Loretz	Hydrophilic base emulsion (N…	19028101	1
Caesar & Loretz	Hydrophilic base emulsion (N…	19140102	2
Caesar&Loretz GmbH/ All…	Hydrophilic base emulsion (N…	16264202	1
Caesar&Loretz GmbH/ Gehe	Hydrophilic base emulsion (N…	15439801	1
Caesar&Loretz GmbH/ San…	Hydrophilic base emulsion (N…	18107602	1
Caesar&Loretz GmbH/AHD	Hydrophilic base emulsion (N…	19028201	1
Caesar&Loretz GmbH/Anzag	Hydrophilic base emulsion (N…	13195901	1
Caesar&Loretz GmbH/Anzag	Hydrophilic base emulsion (N…	13397601	1
Caesar&Loretz GmbH/Anzag	Hydrophilic base emulsion (N…	15077101	2
Caesar&Loretz GmbH	Hydrophilic base emulsion (N…	15337301	1
Caesar&Loretz GmbH	Hydrophilic base emulsion (N…	15439801	1
Caesar&Loretz GmbH	Hydrophilic base emulsion (N…	18180601	1
Caesar&Loretz GmbH	Hydrophilic base emulsion (N…	20002079002	1
Caesar&loretz,AHC	Hydrophilic base emulsion (N…	14063601	1
Caesar/Lorenz	Hydrophilic base emulsion (N…	13076702	1
Caesar/Noweda	Hydrophilic base emulsion (N…	12071901	1
Caesar/Noweda	Hydrophilic base emulsion (N…	15440101	1
Caesar/Noweda	Hydrophilic base emulsion (N…	5011E-03325	1
Cealeo/Phönix	Hydrophilic base emulsion (N…	17342101	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Cealo/ Anzag	Hydrophilic base emulsion (N...	19225601	1
Cealo/Gehe	Hydrophilic base emulsion (N...	18311302	1
cealo/noveda	Hydrophilic base emulsion (N...	15209901	1
Cealo/Sana	Hydrophilic base emulsion (N...	18031601	1
Cealo	Hydrophilic base emulsion (N...	15077101	3
Cealo	Hydrophilic base emulsion (N...	17170201	1
Celo	Hydrophilic base emulsion (N...	19181001	1
Ebert & Jacobi	Hydrophilic base emulsion (N...	17226903	1
Ebert & Jacobi	Hydrophilic base emulsion (N...	192827001	1
Ebert 12.09.2016	Hydrophilic base emulsion (N...	16115602	1
Eigen/Defektur	Hydrophilic base emulsion (N...	15337602	1
Eigene Herstellung	Hydrophilic base emulsion (N...	13305601	1
EuRho/Sanac	Hydrophilic base emulsion (N...	13305601	3
Euro OTC	Hydrophilic base emulsion (N...	13196001	1
Euro OTC	Hydrophilic base emulsion (N...	14063702	2
Euro OTC	Hydrophilic base emulsion (N...	16115602	1
Euro OTC	Hydrophilic base emulsion (N...	16249302	2
Euro OTC	Hydrophilic base emulsion (N...	19028201	1
euro//Noweda	Hydrophilic base emulsion (N...	18258801	1
Fagron	Hydrophilic base emulsion (N...	13195901	1
Fagron	Hydrophilic base emulsion (N...	13305401	5
Fagron	Hydrophilic base emulsion (N...	15439801	2
Fagron	Hydrophilic base emulsion (N...	16115302	1
Fagron	Hydrophilic base emulsion (N...	16264101	1
Fagron	Hydrophilic base emulsion (N...	17118401	1
Fagron	Hydrophilic base emulsion (N...	17226801	1
Fagron	Hydrophilic base emulsion (N...	18107701	4
Fagron	Hydrophilic base emulsion (N...	18180601	1
Fiebig ek:4,26EUR 18.09.12	Hydrophilic base emulsion (N...	12173003	1
Fiebig	Hydrophilic base emulsion (N...	15210001	1
Fiebig	Hydrophilic base emulsion (N...	17044401	2
GEHE 10.03.2014	Hydrophilic base emulsion (N...	14063502	2
Gehe 21-01-2019	Hydrophilic base emulsion (N...	18180601	1
GEHE 29.01.2019	Hydrophilic base emulsion (N...	18180601	1
Gehe am 6.03.2014	Hydrophilic base emulsion (N...	13195801	1
GEHE/ Braun	Hydrophilic base emulsion (N...	18180702	2
Gehe	Hydrophilic base emulsion (N...	13195801	1
Gehe	Hydrophilic base emulsion (N...	13397601	2
Gehe	Hydrophilic base emulsion (N...	14140901	1
Gehe	Hydrophilic base emulsion (N...	14238802	1
Gehe	Hydrophilic base emulsion (N...	14239103	1
Gehe	Hydrophilic base emulsion (N...	15076803	1
Gehe	Hydrophilic base emulsion (N...	15076901	3
Gehe	Hydrophilic base emulsion (N...	15077003	2
Gehe	Hydrophilic base emulsion (N...	15337602	1
Gehe	Hydrophilic base emulsion (N...	15337701	2
Gehe	Hydrophilic base emulsion (N...	15439901	1
Gehe	Hydrophilic base emulsion (N...	15440102	1
Gehe	Hydrophilic base emulsion (N...	16115401	1
Gehe	Hydrophilic base emulsion (N...	16340002	2
Gehe	Hydrophilic base emulsion (N...	17118401	1
Gehe	Hydrophilic base emulsion (N...	17170101	3
Gehe	Hydrophilic base emulsion (N...	17170201	1
Gehe	Hydrophilic base emulsion (N...	17342301	2
Gehe	Hydrophilic base emulsion (N...	18031701	1
Gehe	Hydrophilic base emulsion (N...	18031802	2
GEHE	Hydrophilic base emulsion (N...	18107501	1
Gehe	Hydrophilic base emulsion (N...	18258701	1
Gehe	Hydrophilic base emulsion (N...	19181001	1
Gehe	Hydrophilic base emulsion (N...	19225601	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Hydrophilic base emulsion (N...	192827002	1
Gehe	Hydrophilic base emulsion (N...	20000295001	1
Gehe	Hydrophilic base emulsion (N...	20000922001	1
Gehe	Hydrophilic base emulsion (N...	20000922002	1
Gehe	Hydrophilic base emulsion (N...	20002079001	1
Gehe	Hydrophilic base emulsion (N...	21001238002	1
Henry Lamotte Oils Gmbh...	Hydrophilic base emulsion (N...	13397601	1
Herstellung	Hydrophilic base emulsion (N...	13305501	2
Hubertus Apotheke	Hydrophilic base emulsion (N...	15209901	1
Jenne	Hydrophilic base emulsion (N...	192827002	1
Krieger	Hydrophilic base emulsion (N...	21003085002	1
lamotte phönix	Hydrophilic base emulsion (N...	18107602	1
Lamotte	Hydrophilic base emulsion (N...	16264102	1
Maros	Hydrophilic base emulsion (N...	5006613	1
Noweda	Hydrophilic base emulsion (N...	12230301	1
Noweda	Hydrophilic base emulsion (N...	13076801	1
Noweda	Hydrophilic base emulsion (N...	15209801	1
Noweda	Hydrophilic base emulsion (N...	1626402	1
Noweda	Hydrophilic base emulsion (N...	16340002	1
Noweda	Hydrophilic base emulsion (N...	17044301	1
Noweda	Hydrophilic base emulsion (N...	17118401	1
Noweda	Hydrophilic base emulsion (N...	18107501	2
Noweda	Hydrophilic base emulsion (N...	19028101	1
Noweda	Hydrophilic base emulsion (N...	19140102	1
Noweda	Hydrophilic base emulsion (N...	19181001	1
Noweda	Hydrophilic base emulsion (N...	21003085002	2
Pala	Hydrophilic base emulsion (N...	180031802	2
Pala	Hydrophilic base emulsion (N...	18107701	1
Pala	Hydrophilic base emulsion (N...	20000296002	1
PHOENIX 03.06.2014	Hydrophilic base emulsion (N...	14063701	1
PHOENIX am 27.01.2014	Hydrophilic base emulsion (N...	13305401	1
Phoenix	Hydrophilic base emulsion (N...	13195901	1
Phoenix	Hydrophilic base emulsion (N...	13397601	1
Phoenix	Hydrophilic base emulsion (N...	14063502	1
Phoenix	Hydrophilic base emulsion (N...	14063701	1
Phoenix	Hydrophilic base emulsion (N...	16249302	1
Phoenix	Hydrophilic base emulsion (N...	17118301	1
Phoenix	Hydrophilic base emulsion (N...	17170301	1
Phoenix	Hydrophilic base emulsion (N...	17342101	1
Phoenix	Hydrophilic base emulsion (N...	17342202	1
Phoenix	Hydrophilic base emulsion (N...	18107501	1
Phoenix	Hydrophilic base emulsion (N...	18107602	1
Phoenix	Hydrophilic base emulsion (N...	18258801	1
Phoenix	Hydrophilic base emulsion (N...	18258901	1
Phoenix	Hydrophilic base emulsion (N...	19028101	1
PHOENIX	Hydrophilic base emulsion (N...	19028101	1
Phoenix	Hydrophilic base emulsion (N...	19028201	1
Phoenix	Hydrophilic base emulsion (N...	19140101	1
Phoenix	Hydrophilic base emulsion (N...	19181001	1
Phoenix	Hydrophilic base emulsion (N...	21002118001	3
Phoenix	Hydrophilic base emulsion (N...	3045	1
Phoenix	Hydrophilic base emulsion (N...	3130	1
Phoenix	Hydrophilic base emulsion (N...	3233	1
Phoenix	Hydrophilic base emulsion (N...	3379	1
Phönix Gotha	Hydrophilic base emulsion (N...	13195801	1
Phönix Gotha	Hydrophilic base emulsion (N...	17226801	1
Phönix Gotha	Hydrophilic base emulsion (N...	18180601	1
Phönix Gotha	Hydrophilic base emulsion (N...	18258801	3
Phönix Gotha	Hydrophilic base emulsion (N...	18311302	2
Phönix Gotha	Hydrophilic base emulsion (N...	19181001	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix Gotha	Hydrophilic base emulsion (N...	19181101	1
Phönix/Phönix	Hydrophilic base emulsion (N...	17118301	1
Phönix	Hydrophilic base emulsion (N...	13039701	1
Phönix	Hydrophilic base emulsion (N...	13076803	1
Phonix	Hydrophilic base emulsion (N...	14063601	1
phönix	Hydrophilic base emulsion (N...	16339901	1
phönix	Hydrophilic base emulsion (N...	17044401	2
PHÖNIX	Hydrophilic base emulsion (N...	17342101	1
Phönix	Hydrophilic base emulsion (N...	17342202	1
Phönix	Hydrophilic base emulsion (N...	18031701	1
Phönix	Hydrophilic base emulsion (N...	18107603	1
Phönix	Hydrophilic base emulsion (N...	18180601	1
Phönix	Hydrophilic base emulsion (N...	18180702	2
Phönix	Hydrophilic base emulsion (N...	18258801	1
Phönix	Hydrophilic base emulsion (N...	19028101	2
Phönix	Hydrophilic base emulsion (N...	20000921001	1
Phönix	Hydrophilic base emulsion (N...	20001763002	1
Phönix	Hydrophilic base emulsion (N...	20003313002	1
Phönix	Hydrophilic base emulsion (N...	21000737002	1
Sanacorp	Hydrophilic base emulsion (N...		1
Sanacorp	Hydrophilic base emulsion (N...	12128401	2
Sanacorp	Hydrophilic base emulsion (N...	12230203	1
Sanacorp	Hydrophilic base emulsion (N...	13039702	1
Sanacorp	Hydrophilic base emulsion (N...	13195901	1
Sanacorp	Hydrophilic base emulsion (N...	13305401	5
Sanacorp	Hydrophilic base emulsion (N...	13397601	2
Sanacorp	Hydrophilic base emulsion (N...	14063601	3
Sanacorp	Hydrophilic base emulsion (N...	14141004	1
Sanacorp	Hydrophilic base emulsion (N...	14238901	1
Sanacorp	Hydrophilic base emulsion (N...	14360301	2
sanacorp	Hydrophilic base emulsion (N...	15210001	2
Sanacorp	Hydrophilic base emulsion (N...	15337301	2
Sanacorp	Hydrophilic base emulsion (N...	17124701	1
Sanacorp	Hydrophilic base emulsion (N...	17170201	1
Sanacorp	Hydrophilic base emulsion (N...	17227001	1
Sanacorp	Hydrophilic base emulsion (N...	18031702	1
Sanacorp	Hydrophilic base emulsion (N...	1810601	1
Sanacorp	Hydrophilic base emulsion (N...	18107501	1
Sanacorp	Hydrophilic base emulsion (N...	18107602	1
SANACORP	Hydrophilic base emulsion (N...	19028101	1
Sanacorp	Hydrophilic base emulsion (N...	19028201	1
Sanacorp	Hydrophilic base emulsion (N...	19140102	2
Sanacorp	Hydrophilic base emulsion (N...	19181001	2
Sanacorp	Hydrophilic base emulsion (N...	19181101	1
Sanacorp	Hydrophilic base emulsion (N...	20000296002	2
Spangropharm	Hydrophilic base emulsion (N...	20000921001	2
Spangropharm	Hydrophilic base emulsion (N...	20001763002	1
wepa/Sanaco	Hydrophilic base emulsion (N...	16115303	1

- 293 615 spectra from 1324 *Apo-Ident* customers from a total of 52 645 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Hydrophilic base emulsion (NRF p.25)* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Hydrophilic base emulsion (NRF p.25)* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	670	0	67 829
Type B	0	1288	2	110 023
Type C	0	3696	147	293 615

The substance/substance group *Hydrophilic base emulsion (NRF p.25)* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.1045 %)
Type B	100.0000 % (> 99.9678 %)	99.8450 % (> 99.6124 %)
Type C	100.0000 % (> 99.6875 %)	96.1749 % (> 96.0968 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Hydrophilic base emulsion (NRF p.25)* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Non-ionic hydrous liniment SR/DAC (NRF…	17.45	–
Polyhexanide solution 20%	25.61	–
Hydrated liniment SR/DAC (NRF p.40)	25.88	–
Gel basis Audor®	29.36	–
Chest elixir	30.53	–
Dextrorotary lactic acid 20%	31.16	–
Hydrophilic cream, non-ionic SR (NRF p…	34.57	–
Fortified wine	37.42	–
Hydrophilic cream, non-ionic without p…	39.95	–
Glycolic acid 70%	41.25	–
Liquorice juice purified, diluted	41.62	–
Sodium-(s)-lactate solution 50%	43.01	–
Condurango wine	43.07	–
Anionic hydrophlic cream without prese…	43.11	–
Lotio Cordes®	43.36	–
Anionic hydrophilic cream SR (NRF p.27)	43.62	–
Anionic hydrophilic cream with propyle…	45.27	–
Aluminium acetotartrate solution	46.98	–

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Substanz	Distance in main model	Distance in second-stage model
Acetic acid 30%	47.46	–
Base cream, hydrophobic DAC	47.70	–
Base cream, diluted	49.22	–
Chlorhexidine digluconate solution	49.60	–
Water	50.60	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Hydrophilic base emulsion (NRF p.25)* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30709	33157	4.28	32.06
31176	31176	0.00	30.54
31340	32290	4.48	28.20
32290	32290	0.00	32.03
32291	32291	0.00	33.39
32292	32292	0.00	32.82
33154	33154	0.00	31.05
33155	33155	0.00	26.50
33156	33156	0.00	28.52
33157	33157	0.00	27.11
34536	34536	0.00	30.92
34537	34537	0.00	31.27
34538	34538	0.00	30.00
34539	34539	0.00	30.85
35595	35595	0.00	32.17
35949	35949	0.00	30.81
35950	35950	0.00	31.54

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Hydrophilic ointments**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30631-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Hydrophilic ointments; Anionic hydrophilic cream DAB; Anionic hydrophilic cream SR (NRF p.27); Anionic hydrophilic cream with propylene glycol; Anionic hydrophlic cream without preservatives; Base cream, diluted; Base cream, hydrophobic DAC; Cremor basalis hydrophobicus; Hydrophilic cream, non-ionic SR (NRF p.26); Hydrophilic cream, non-ionic without preservatives SR; Skin care ointment W/L SR; Skin care ointment W/L SR (without preservatives); Transdermal base cream; Unguentum emulsificans aquosum cum propylenglycolum; Unguentum emulsificans aquosum DAB; Unguentum emulsificans aquosum N sine conservante SR; Unguentum emulsificans aquosum N SR (NRF S. 26); Unguentum emulsificans aquosum sine conservante; Unguentum emulsificans aquosum SR (NRF S. 27); Wolff® base half-fat cream

Special notes

When selecting the *Hydrophilic ointments* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Hydrophilic ointments	120	391	6172

Second-stage model

For differentiation of the substance/substance group *Hydrophilic ointments* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Hydrophilic ointments*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Anionic hydrophi...	14138901	31440	40	AR-15-FG-008131-01
Caelo	Anionic hydrophi...	154004	32022	60	20151117*
Caelo	Anionic hydrophi...	154005	32023	60	20151118*
Caelo	Anionic hydrophi...	154007	32024	60	20151124*
Caelo	Anionic hydrophi...	154009	32025	60	20151130*
Caelo	Anionic hydrophi...	154012	32026	60	20151130*
Caelo	Anionic hydrophi...	154012	32027	60	20151130*
Caelo	Anionic hydrophi...	154013	32028	60	20151120*
Caelo	Anionic hydrophi...	154014	32029	60	20151124*
Caelo	Anionic hydrophi...	154015	32030	60	20151117*
Caelo	Anionic hydrophi...	154317	32031	60	20151215*
Caelo	Anionic hydrophi...	154317	32032	60	20151215*
Caelo	Anionic hydrophi...	153971	32038	60	20151113*
Caelo	Anionic hydrophi...	153971	32039	60	20151113*
Caelo	Anionic hydrophi...	153573	32052	60	20151015*
Caelo	Anionic hydrophi...	153573	32053	60	20151015*
Caelo	Anionic hydrophi...	161525	32435	40	20160518*
Caelo	Anionic hydrophi...	161525	32436	40	20160518*
Caelo	Anionic hydrophi...	21000288	35383	40	20210126*
Caelo	Anionic hydrophi...	21000289	35384	40	20210127*
Caelo	Anionic hydrophi...	21000290	35385	40	20210128*
Caelo	Anionic hydrophi...	21000292	35386	40	20210129*
Caelo	Anionic hydrophi...	21000295	35389	40	20210129*
Caelo	Anionic hydrophi...	21000374	35390	40	20210215*
Caelo	Anionic hydrophi...	21000924	35393	40	20210331*
Caelo	Anionic hydrophi...	21000925	35394	40	20210401*
Caelo	Anionic hydrophi...	21000928	35397	40	20210407*
Caelo	Anionic hydrophi...	20004461	35398	40	20210122*
Caelo	Anionic hydrophi...	21000929	35399	40	20210412*
Caelo	Anionic hydrophi...	21001502	35531	50	20210507*
Caelo	Anionic hydrophi...	21001814	35535	50	20210602*
Caelo	Anionic hydrophi...	21001494	35564	50	20210428*
apomix	Anionic hydrophi...	25A210812	30895	60	20120821
apomix	Anionic hydrophi...	04A050219	34507	40	20190205
Bombastus	Anionic hydrophi...	280574	31054	40	1405103
Bombastus	Anionic hydrophi...	19000650	34506	40	20190205
Caelo	Anionic hydrophi...	14063303	31450	40	20140512
Caelo	Anionic hydrophi...	161075	32115	40	20160406*
Caelo	Anionic hydrophi...	161075	32116	40	20160406*
Caelo	Anionic hydrophi...	153295	32123	40	20150924*
Caelo	Anionic hydrophi...	153296	32124	40	20150924*
Caelo	Anionic hydrophi...	153865	32125	40	20151211*

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Anionic hydrophi…	153866	32126	40	20151211*
Caelo	Anionic hydrophi…	160196	32127	40	20160127*
Caelo	Anionic hydrophi…	160198	32128	40	20160127*
Caelo	Anionic hydrophi…	161267	32225	40	20160504*
Caelo	Anionic hydrophi…	162155	32386	40	20160728*
Caelo	Anionic hydrophi…	162156	32387	40	20160728*
Caelo	Anionic hydrophi…	191771	34791	40	20190705*
Caelo	Anionic hydrophi…	21001752	35614	50	20210628*
Caelo	Anionic hydrophi…	21003705	36036	40	20211221*
Caelo	Anionic hydrophi…	12221002	30880	50	20120911
Caelo	Anionic hydrophi…	13343401	31231	40	1403496
Caelo	Anionic hydrophi…	13244401	31241	30	20130726
Caelo	Anionic hydrophi…	14030701	31470	40	20140204
Caelo	Anionic hydrophi…	15048501	31741	60	9128
Caelo	Anionic hydrophi…	160673	32129	40	20160310*
Caelo	Anionic hydrophi…	160673	32130	40	20160310*
Caelo	Anionic hydrophi…	160673	32131	40	20160310*
Caelo	Anionic hydrophi…	160673	32132	40	20160310*
Caelo	Anionic hydrophi…	160677	32141	40	20160310*
Caelo	Anionic hydrophi…	160677	32142	40	20160310*
Caelo	Anionic hydrophi…	161916	32620	40	20160630*
Caelo	Anionic hydrophi…	161917	32621	40	20160630*
Caelo	Anionic hydrophi…	162901	32882	40	20161018*
Caelo	Anionic hydrophi…	171023	33354	40	20170419*
Caelo	Anionic hydrophi…	20001978	35099	40	20200714*
Caelo	Anionic hydrophi…	20003308	35169	40	20201109*
Caelo	Anionic hydrophi…	20003309	35170	40	20201109*
apomix	Anionic hydrophl…	11B020914	31537	60	1411614
apomix	Anionic hydrophl…	05B200415	31661	70	20150422
apomix	Anionic hydrophl…	08B200819	34681	40	20190820
apomix	Anionic hydrophl…	04B200622	36383	40	20220620
Caelo	Base cream, dilu…	14242803	31515	60	20140813*
Caelo	Base cream, dilu…	181758	34267	40	20180716*
Caelo	Base cream, dilu…	191056	34544	40	20190426*
Caelo	Base cream, dilu…	191904	34822	40	20190723*
Caelo	Base cream, dilu…	20001669	34850	40	20200615*
Caelo	Base cream, dilu…	20002515	35092	40	20200827*
Caelo	Base cream, dilu…	21002416	35640	50	20210811*
Caelo	Base cream, hydr…	12151602	30758	40	20120612
Caelo	Base cream, hydr…	12308102	30931	40	20121031
Caelo	Base cream, hydr…	13085601	31002	40	20130404
Caelo	Base cream, hydr…	14028101	31478	40	AR-15-FG-009038-01
Caelo	Base cream, hydr…	15221202	31799	60	1605111
Caelo	Base cream, hydr…	154212	31906	60	20151211*
Caelo	Base cream, hydr…	154213	31907	60	20151211*
Caelo	Base cream, hydr…	171920	33595	40	20170710*
Caelo	Base cream, hydr…	21000396	35367	40	20210219*
Caelo	Base cream, hydr…	21000397	35368	40	20210222*
Fagron	Base cream, hydr…	17C06-T08-042287	33964	40	20170425
Fagron	Base cream, hydr…	18L18-T09-062847	34598	40	20190213
Pharmachem	Base cream, hydr…	150404	31644	60	20150306
Pharmachem	Base cream, hydr…	160825	32303	40	20160517
apomix	Hydrophilic crea…	12A160419	34525	40	20190416
Bombastus	Hydrophilic crea…	00273130	30769	40	1405255
Bombastus	Hydrophilic crea…	288882	31568	60	20140722
Caelo	Hydrophilic crea…	14127002	31477	40	20140512
Caelo	Hydrophilic crea…	14304902	31591	60	20141013
Caelo	Hydrophilic crea…	153656	31996	40	20151211*
Caelo	Hydrophilic crea…	20002461	35096	40	20200811*
Caelo	Hydrophilic crea…	21002193	35617	50	20210818*

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Fagron	Hydrophilic crea...	14E07-M04	31593	60	20140513
Fagron	Hydrophilic crea...	15A110619	34508	40	20190612
apomix	Hydrophilic crea...	21B141013	31188	40	1405386
apomix	Hydrophilic crea...	14B240614	31500	20	1411613
apomix	Hydrophilic crea...	14B240614	31516	60	20140624
apomix	Hydrophilic crea...	22B061114	31565	60	20141106
apomix	Hydrophilic crea...	01B120115	31599	60	20150114
apomix	Hydrophilic crea...	25B081215	31962	60	20151209
apomix	Hydrophilic crea...	13B090919	34683	40	20190909
apomix	Skin care ointme...	88B111212	31040	40	20121211
apomix	Skin care ointme...	10A050214	31503	60	1412041
apomix	Skin care ointme...	05A250221	35292	40	20210226
apomix	Skin care ointme...	08A230622	36384	40	20220630
Pharmachem	Skin care ointme...	170117	33295	40	20180131
apomix	Skin care ointme...	01B110113	31039	40	1403321
apomix	Skin care ointme...	31B020714	31600	60	20140702
apomix	Skin care ointme...	24B200617	33641	40	20170620
apomix	Skin care ointme...	35A040919	34680	40	20190904
apomix	Skin care ointme...	37B081220	35291	40	20201209
Fagron	Transdermal base...	12H17-T02-000281	31008	40	1406052
Fagron	Transdermal base...	12H17-T02-000281	31042	40	20130110
Fagron	Transdermal base...	15A28-T10-018922	32346	40	20150804
Fagron	Transdermal base...	1805581/1	34763	40	20180614
Fagron	Transdermal base...	20003335	35086	40	20200423
Fagron	Transdermal base...	20003334	35461	40	20200417
Dr. Wolff	Wolff® base half...	230200	30631	40	20120210
Dr. Wolff	Wolff® base half...	236420	30837	40	1410330
Dr. Wolff	Wolff® base half...	331551	31086	40	20130221
Dr. Wolff	Wolff® base half...	432611	31487	40	20140410
Dr. Wolff	Wolff® base half...	810800	34689	40	20190103

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 5990 spectra of 132 reference samples from the substance/substance group *Hydrophilic ointments*. These samples are listed above in the *calibration samples* section. The reference samples come from 120 different batches.
- 62 509 spectra from a total of 1293 batches from further 217 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 18 496 spectra of 480 reference samples from the substance/substance group *Hydrophilic ointments*.
- Among them are spectra of independent samples from 391 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Anionic hydrophilic cream DAB	22001250	36206	40
Caelo	Anionic hydrophilic cream DAB	154321	32033	60
Caelo	Anionic hydrophilic cream DAB	153529	32035	60
Caelo	Anionic hydrophilic cream DAB	153530	32036	60
Caelo	Anionic hydrophilic cream DAB	153970	32037	60
Caelo	Anionic hydrophilic cream DAB	153972	32040	60
Caelo	Anionic hydrophilic cream DAB	153973	32041	60
Caelo	Anionic hydrophilic cream DAB	153575	32042	60
Caelo	Anionic hydrophilic cream DAB	153969	32043	60
Caelo	Anionic hydrophilic cream DAB	154281	32045	60
Caelo	Anionic hydrophilic cream DAB	154282	32046	45
Caelo	Anionic hydrophilic cream DAB	153531	32048	45
Caelo	Anionic hydrophilic cream DAB	153571	32049	60
Caelo	Anionic hydrophilic cream DAB	153572	32050	60
Caelo	Anionic hydrophilic cream DAB	153574	32051	60
Caelo	Anionic hydrophilic cream DAB	154284	32055	60
Caelo	Anionic hydrophilic cream DAB	153194	32057	60
Caelo	Anionic hydrophilic cream DAB	154285	32059	60
Caelo	Anionic hydrophilic cream DAB	154283	32061	60
Caelo	Anionic hydrophilic cream DAB	153968	32063	60
Caelo	Anionic hydrophilic cream DAB	160578	32145	40
Caelo	Anionic hydrophilic cream DAB	161031	32146	40
Caelo	Anionic hydrophilic cream DAB	161033	32148	40
Caelo	Anionic hydrophilic cream DAB	161510	32218	40
Caelo	Anionic hydrophilic cream DAB	161507	32220	40
Caelo	Anionic hydrophilic cream DAB	161508	32222	40
Caelo	Anionic hydrophilic cream DAB	161506	32426	40
Caelo	Anionic hydrophilic cream DAB	161798	32431	40
Caelo	Anionic hydrophilic cream DAB	161529	32437	40
Caelo	Anionic hydrophilic cream DAB	161526	32440	40
Caelo	Anionic hydrophilic cream DAB	161527	32444	40
Caelo	Anionic hydrophilic cream DAB	161528	32447	40
Caelo	Anionic hydrophilic cream DAB	161560	32450	40
Caelo	Anionic hydrophilic cream DAB	161561	32451	40
Caelo	Anionic hydrophilic cream DAB	161563	32452	40
Caelo	Anionic hydrophilic cream DAB	161564	32453	40
Caelo	Anionic hydrophilic cream DAB	161589	32644	40
Caelo	Anionic hydrophilic cream DAB	161796	32645	40
Caelo	Anionic hydrophilic cream DAB	161797	32647	40
Caelo	Anionic hydrophilic cream DAB	161800	32648	40
Caelo	Anionic hydrophilic cream DAB	162500	32649	40
Caelo	Anionic hydrophilic cream DAB	162501	32651	40
Caelo	Anionic hydrophilic cream DAB	162502	32653	40
Caelo	Anionic hydrophilic cream DAB	162589	32654	40
Caelo	Anionic hydrophilic cream DAB	162590	32656	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Anionic hydrophilic cream DAB	162591	32658	40
Caelo	Anionic hydrophilic cream DAB	162592	32661	40
Caelo	Anionic hydrophilic cream DAB	162593	32663	40
Caelo	Anionic hydrophilic cream DAB	162594	32667	40
Caelo	Anionic hydrophilic cream DAB	162596	32669	40
Caelo	Anionic hydrophilic cream DAB	162597	32672	40
Caelo	Anionic hydrophilic cream DAB	162599	32674	40
Caelo	Anionic hydrophilic cream DAB	162600	32676	40
Caelo	Anionic hydrophilic cream DAB	162645	32678	40
Caelo	Anionic hydrophilic cream DAB	162643	32875	40
Caelo	Anionic hydrophilic cream DAB	162644	32876	40
Caelo	Anionic hydrophilic cream DAB	162646	32877	40
Caelo	Anionic hydrophilic cream DAB	162647	32878	40
Caelo	Anionic hydrophilic cream DAB	162598	32879	40
Caelo	Anionic hydrophilic cream DAB	163172	32880	40
Caelo	Anionic hydrophilic cream DAB	163226	32881	40
Caelo	Anionic hydrophilic cream DAB	170451	33122	40
Caelo	Anionic hydrophilic cream DAB	170452	33123	40
Caelo	Anionic hydrophilic cream DAB	163281	33170	40
Caelo	Anionic hydrophilic cream DAB	163282	33171	40
Caelo	Anionic hydrophilic cream DAB	163283	33172	40
Caelo	Anionic hydrophilic cream DAB	163284	33173	40
Caelo	Anionic hydrophilic cream DAB	170453	33174	40
Caelo	Anionic hydrophilic cream DAB	170454	33175	40
Caelo	Anionic hydrophilic cream DAB	171421	33581	40
Caelo	Anionic hydrophilic cream DAB	171422	33582	40
Caelo	Anionic hydrophilic cream DAB	171423	33583	40
Caelo	Anionic hydrophilic cream DAB	171424	33584	40
Caelo	Anionic hydrophilic cream DAB	171427	33585	40
Caelo	Anionic hydrophilic cream DAB	171430	33586	40
Caelo	Anionic hydrophilic cream DAB	171431	33587	40
Caelo	Anionic hydrophilic cream DAB	171432	33588	40
Caelo	Anionic hydrophilic cream DAB	171433	33589	40
Caelo	Anionic hydrophilic cream DAB	171434	33590	40
Caelo	Anionic hydrophilic cream DAB	171435	33591	40
Caelo	Anionic hydrophilic cream DAB	171436	33592	40
Caelo	Anionic hydrophilic cream DAB	171437	33593	40
Caelo	Anionic hydrophilic cream DAB	171438	33594	40
Caelo	Anionic hydrophilic cream DAB	182434	34264	40
Caelo	Anionic hydrophilic cream DAB	191613	34788	40
Caelo	Anionic hydrophilic cream DAB	192060	34789	40
Caelo	Anionic hydrophilic cream DAB	192723	34790	40
Caelo	Anionic hydrophilic cream DAB	20000033	34975	40
Caelo	Anionic hydrophilic cream DAB	20001676	34976	40
Caelo	Anionic hydrophilic cream DAB	20004458	35379	40
Caelo	Anionic hydrophilic cream DAB	20004459	35380	40
Caelo	Anionic hydrophilic cream DAB	20004462	35381	40
Caelo	Anionic hydrophilic cream DAB	21000287	35382	40
Caelo	Anionic hydrophilic cream DAB	21000293	35387	40
Caelo	Anionic hydrophilic cream DAB	21000294	35388	40
Caelo	Anionic hydrophilic cream DAB	21000375	35391	40
Caelo	Anionic hydrophilic cream DAB	21000376	35392	40
Caelo	Anionic hydrophilic cream DAB	21000926	35395	40
Caelo	Anionic hydrophilic cream DAB	21000927	35396	40
Caelo	Anionic hydrophilic cream DAB	21001498	35527	50
Caelo	Anionic hydrophilic cream DAB	21001499	35528	50
Caelo	Anionic hydrophilic cream DAB	21001500	35529	50
Caelo	Anionic hydrophilic cream DAB	21001501	35530	50
Caelo	Anionic hydrophilic cream DAB	21001504	35532	50
Caelo	Anionic hydrophilic cream DAB	21001505	35533	50

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Anionic hydrophilic cream DAB	21001810	35534	50
Caelo	Anionic hydrophilic cream DAB	21001495	35565	50
Caelo	Anionic hydrophilic cream DAB	21001496	35566	50
Caelo	Anionic hydrophilic cream DAB	21001497	35567	50
Caelo	Anionic hydrophilic cream DAB	21001493	35568	50
Caelo	Anionic hydrophilic cream DAB	21001812	35653	50
Caelo	Anionic hydrophilic cream DAB	21001816	35654	50
Caelo	Anionic hydrophilic cream DAB	21001813	35655	50
Caelo	Anionic hydrophilic cream DAB	21002632	35656	50
Caelo	Anionic hydrophilic cream DAB	21002633	35657	50
Caelo	Anionic hydrophilic cream DAB	21002634	35658	50
Caelo	Anionic hydrophilic cream DAB	21002635	35659	50
Caelo	Anionic hydrophilic cream DAB	21002628	35868	50
Caelo	Anionic hydrophilic cream DAB	21002629	35869	50
Caelo	Anionic hydrophilic cream DAB	21002630	35870	50
Caelo	Anionic hydrophilic cream DAB	21002631	35871	50
Caelo	Anionic hydrophilic cream DAB	21002637	35872	50
Caelo	Anionic hydrophilic cream DAB	21002638	35873	50
Caelo	Anionic hydrophilic cream DAB	21002639	35874	50
Caelo	Anionic hydrophilic cream DAB	21002640	35875	50
Caelo	Anionic hydrophilic cream DAB	21002641	35876	50
Caelo	Anionic hydrophilic cream DAB	21002642	35877	50
Caelo	Anionic hydrophilic cream DAB	21003745	35993	40
Caelo	Anionic hydrophilic cream DAB	21003943	35994	40
Caelo	Anionic hydrophilic cream DAB	21003944	35995	10
Caelo	Anionic hydrophilic cream DAB	21003945	35996	10
Caelo	Anionic hydrophilic cream DAB	21003946	35997	10
Caelo	Anionic hydrophilic cream DAB	21003947	35998	10
Caelo	Anionic hydrophilic cream DAB	21003948	35999	10
Caelo	Anionic hydrophilic cream DAB	21003949	36007	10
Caelo	Anionic hydrophilic cream DAB	21003950	36008	10
Caelo	Anionic hydrophilic cream DAB	21003951	36009	10
Caelo	Anionic hydrophilic cream DAB	21003954	36010	10
Caelo	Anionic hydrophilic cream DAB	21003955	36011	10
Caelo	Anionic hydrophilic cream DAB	21003956	36012	10
Caelo	Anionic hydrophilic cream DAB	21003957	36013	10
Caelo	Anionic hydrophilic cream DAB	22000345	36099	40
Caelo	Anionic hydrophilic cream DAB	22000347	36100	10
Caelo	Anionic hydrophilic cream DAB	22000349	36101	40
Caelo	Anionic hydrophilic cream DAB	22000350	36102	10
Caelo	Anionic hydrophilic cream DAB	22000351	36103	10
Caelo	Anionic hydrophilic cream DAB	22000352	36104	10
Caelo	Anionic hydrophilic cream DAB	22000353	36105	10
Caelo	Anionic hydrophilic cream DAB	22000357	36106	10
Caelo	Anionic hydrophilic cream DAB	22000359	36107	10
Caelo	Anionic hydrophilic cream DAB	22000360	36108	10
Caelo	Anionic hydrophilic cream DAB	22000361	36252	10
Caelo	Anionic hydrophilic cream DAB	22000363	36253	10
Caelo	Anionic hydrophilic cream DAB	22000365	36254	10
Caelo	Anionic hydrophilic cream DAB	22000355	36329	10
Caelo	Anionic hydrophilic cream DAB	22001388	36538	40
Caelo	Anionic hydrophilic cream DAB	22001389	36539	10
Caelo	Anionic hydrophilic cream DAB	22001390	36540	10
Caelo	Anionic hydrophilic cream DAB	22001391	36541	40
Caelo	Anionic hydrophilic cream DAB	22001392	36542	10
Caelo	Anionic hydrophilic cream DAB	22001393	36543	10
Caelo	Anionic hydrophilic cream DAB	22001394	36544	10
Caelo	Anionic hydrophilic cream DAB	22001395	36545	10
Caelo	Anionic hydrophilic cream DAB	22002131	36546	40
Caelo	Anionic hydrophilic cream DAB	22002132	36547	10

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Anionic hydrophilic cream DAB	22002133	36548	10
Caelo	Anionic hydrophilic cream DAB	22002134	36549	10
Caelo	Anionic hydrophilic cream DAB	22002135	36550	10
Caelo	Anionic hydrophilic cream DAB	22002141	36551	10
Caelo	Anionic hydrophilic cream DAB	22002143	36552	10
Caelo	Anionic hydrophilic cream DAB	22002144	36553	10
Caelo	Anionic hydrophilic cream DAB	22002145	36554	10
Caelo	Anionic hydrophilic cream DAB	22001387	36555	10
apomix	Anionic hydrophilic cream SR...	09A200422	36235	40
Bombastus	Anionic hydrophilic cream SR...	22001129	36200	40
Caelo	Anionic hydrophilic cream SR...	162157	32388	40
Caelo	Anionic hydrophilic cream SR...	162586	32550	40
Caelo	Anionic hydrophilic cream SR...	162587	32551	40
Caelo	Anionic hydrophilic cream SR...	170419	33125	40
Caelo	Anionic hydrophilic cream SR...	170418	33139	40
Caelo	Anionic hydrophilic cream SR...	171258	33338	40
Caelo	Anionic hydrophilic cream SR...	171442	33339	40
Caelo	Anionic hydrophilic cream SR...	172117	33552	40
Caelo	Anionic hydrophilic cream SR...	172118	33553	40
Caelo	Anionic hydrophilic cream SR...	172568	33768	40
Caelo	Anionic hydrophilic cream SR...	172569	33769	40
Caelo	Anionic hydrophilic cream SR...	172944	34021	40
Caelo	Anionic hydrophilic cream SR...	173195	34022	40
Caelo	Anionic hydrophilic cream SR...	181023	34152	40
Caelo	Anionic hydrophilic cream SR...	181475	34153	40
Caelo	Anionic hydrophilic cream SR...	180411	34162	40
Caelo	Anionic hydrophilic cream SR...	182181	34260	40
Caelo	Anionic hydrophilic cream SR...	192401	34792	40
Caelo	Anionic hydrophilic cream SR...	20001781	35097	40
Caelo	Anionic hydrophilic cream SR...	20002423	35122	40
Caelo	Anionic hydrophilic cream SR...	20003015	35223	40
Caelo	Anionic hydrophilic cream SR...	20003746	35224	40
Caelo	Anionic hydrophilic cream SR...	21000339	35330	40
Caelo	Anionic hydrophilic cream SR...	21001436	35520	50
Caelo	Anionic hydrophilic cream SR...	21002250	35613	50
Caelo	Anionic hydrophilic cream SR...	21003004	35811	50
Caelo	Anionic hydrophilic cream SR...	22000013	36086	40
Caelo	Anionic hydrophilic cream SR...	22000014	36087	10
Caelo	Anionic hydrophilic cream SR...	22000867	36405	40
Caelo	Anionic hydrophilic cream SR...	22002101	36406	40
Caelo	Anionic hydrophilic cream SR...	22002102	36407	10
Caelo	Anionic hydrophilic cream SR...	22002103	36408	10
Caelo	Anionic hydrophilic cream wi...	12117002	30577	40
Caelo	Anionic hydrophilic cream wi...	160674	32133	40
Caelo	Anionic hydrophilic cream wi...	160675	32137	40
Caelo	Anionic hydrophilic cream wi...	160676	32139	40
Caelo	Anionic hydrophilic cream wi...	160678	32143	40
Caelo	Anionic hydrophilic cream wi...	160679	32144	40
Caelo	Anionic hydrophilic cream wi...	161918	32422	40
Caelo	Anionic hydrophilic cream wi...	161919	32424	40
Caelo	Anionic hydrophilic cream wi...	161915	32619	40
Caelo	Anionic hydrophilic cream wi...	162902	32883	40
Caelo	Anionic hydrophilic cream wi...	162903	32884	40
Caelo	Anionic hydrophilic cream wi...	162904	32885	40
Caelo	Anionic hydrophilic cream wi...	162905	32886	40
Caelo	Anionic hydrophilic cream wi...	170302	33128	40
Caelo	Anionic hydrophilic cream wi...	170303	33129	40
Caelo	Anionic hydrophilic cream wi...	170299	33136	40
Caelo	Anionic hydrophilic cream wi...	170300	33137	40
Caelo	Anionic hydrophilic cream wi...	170301	33138	40

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Anionic hydrophilic cream wi...	171021	33350	40
Caelo	Anionic hydrophilic cream wi...	171024	33351	40
Caelo	Anionic hydrophilic cream wi...	171020	33353	40
Caelo	Anionic hydrophilic cream wi...	171022	33355	40
Caelo	Anionic hydrophilic cream wi...	171565	33557	40
Caelo	Anionic hydrophilic cream wi...	171566	33558	40
Caelo	Anionic hydrophilic cream wi...	171854	33559	40
Caelo	Anionic hydrophilic cream wi...	172621	33755	40
Caelo	Anionic hydrophilic cream wi...	172619	33756	40
Caelo	Anionic hydrophilic cream wi...	172622	33757	40
Caelo	Anionic hydrophilic cream wi...	173353	34028	40
Caelo	Anionic hydrophilic cream wi...	180414	34140	40
Caelo	Anionic hydrophilic cream wi...	181808	34262	40
Caelo	Anionic hydrophilic cream wi...	182973	34316	40
Caelo	Anionic hydrophilic cream wi...	182483	34350	40
Caelo	Anionic hydrophilic cream wi...	20003306	35221	40
Caelo	Anionic hydrophilic cream wi...	20003307	35222	40
Caelo	Anionic hydrophilic cream wi...	21000681	35400	40
Caelo	Anionic hydrophilic cream wi...	20004291	35401	40
Caelo	Anionic hydrophilic cream wi...	20004292	35402	40
Caelo	Anionic hydrophilic cream wi...	20004293	35403	40
Caelo	Anionic hydrophilic cream wi...	20004294	35404	40
Caelo	Anionic hydrophilic cream wi...	21000683	35405	40
Caelo	Anionic hydrophilic cream wi...	21000684	35406	40
Caelo	Anionic hydrophilic cream wi...	21000685	35407	40
Caelo	Anionic hydrophilic cream wi...	21001941	35660	50
Caelo	Anionic hydrophilic cream wi...	21001942	35661	50
Caelo	Anionic hydrophilic cream wi...	21001943	35662	50
Caelo	Anionic hydrophilic cream wi...	21003798	35928	20
Caelo	Anionic hydrophilic cream wi...	21003799	35929	10
Caelo	Anionic hydrophilic cream wi...	21003800	35930	40
Caelo	Anionic hydrophilic cream wi...	21004209	36097	40
Caelo	Anionic hydrophilic cream wi...	21004210	36098	10
Caelo	Anionic hydrophilic cream wi...	22001180	36519	40
Caelo	Anionic hydrophilic cream wi...	22001181	36520	10
Caelo	Anionic hydrophilic cream wi...	22001182	36521	10
Caelo	Anionic hydrophilic cream wi...	22001183	36522	10
Caelo	Anionic hydrophilic cream wi...	22001184	36523	10
Caelo	Anionic hydrophilic cream wi...	22002040	36524	40
Caelo	Anionic hydrophilic cream wi...	22002041	36525	10
Caelo	Anionic hydrophilic cream wi...	22002042	36526	10
Caelo	Anionic hydrophilic cream wi...	22002043	36527	40
apomix	Anionic hydrophlic cream wit...	05B310517	33516	40
apomix	Anionic hydrophlic cream wit...	01B080118	33947	40
apomix	Anionic hydrophlic cream wit...	03B160321	35264	40
apomix	Anionic hydrophlic cream wit...	08B210921	35815	50
apomix	Anionic hydrophlic cream wit...	02B220322	36228	40
Caelo	Base cream, diluted	182407	34268	40
Caelo	Base cream, diluted	191057	34543	40
Caelo	Base cream, diluted	192299	34821	40
Caelo	Base cream, diluted	20003510	35154	40
Caelo	Base cream, diluted	21001312	35363	40
Caelo	Base cream, diluted	21001313	35364	40
Caelo	Base cream, diluted	21001314	35365	40
Caelo	Base cream, diluted	21000785	35366	40
Caelo	Base cream, diluted	21001869	35637	50
Caelo	Base cream, diluted	21001870	35638	50
Caelo	Base cream, diluted	21001871	35639	50
Caelo	Base cream, diluted	21002417	35641	50
Caelo	Base cream, diluted	21002418	35642	50

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Base cream, diluted	21004061	35960	23
Caelo	Base cream, diluted	21004062	35961	10
Caelo	Base cream, diluted	22000373	36138	10
Caelo	Base cream, diluted	22000372	36139	40
Caelo	Base cream, diluted	22001361	36246	40
Caelo	Base cream, diluted	22001362	36247	10
Caelo	Base cream, diluted	22001704	36419	40
Caelo	Base cream, diluted	22001705	36420	10
Caelo	Base cream, hydrophobic DAC	12025003	30467	20
Caelo	Base cream, hydrophobic DAC	154214	31908	60
Caelo	Base cream, hydrophobic DAC	160748	32149	40
Caelo	Base cream, hydrophobic DAC	160749	32151	40
Caelo	Base cream, hydrophobic DAC	160751	32153	40
Caelo	Base cream, hydrophobic DAC	160750	32155	40
Caelo	Base cream, hydrophobic DAC	160752	32156	40
Caelo	Base cream, hydrophobic DAC	161654	32370	41
Caelo	Base cream, hydrophobic DAC	161655	32372	41
Caelo	Base cream, hydrophobic DAC	161656	32374	41
Caelo	Base cream, hydrophobic DAC	161657	32376	41
Caelo	Base cream, hydrophobic DAC	161742	32378	41
Caelo	Base cream, hydrophobic DAC	162937	32855	40
Caelo	Base cream, hydrophobic DAC	162938	32856	40
Caelo	Base cream, hydrophobic DAC	162939	32857	40
Caelo	Base cream, hydrophobic DAC	170732	33127	40
Caelo	Base cream, hydrophobic DAC	171504	33373	40
Caelo	Base cream, hydrophobic DAC	171505	33374	40
Caelo	Base cream, hydrophobic DAC	171130	33375	40
Caelo	Base cream, hydrophobic DAC	171129	33376	40
Caelo	Base cream, hydrophobic DAC	172552	34023	40
Caelo	Base cream, hydrophobic DAC	180512	34163	40
Caelo	Base cream, hydrophobic DAC	181739	34164	40
Caelo	Base cream, hydrophobic DAC	182398	34269	40
Caelo	Base cream, hydrophobic DAC	182867	34306	40
Caelo	Base cream, hydrophobic DAC	192048	34818	40
Caelo	Base cream, hydrophobic DAC	191159	34819	40
Caelo	Base cream, hydrophobic DAC	192387	34820	40
Caelo	Base cream, hydrophobic DAC	20001199	34851	40
Caelo	Base cream, hydrophobic DAC	20001592	34852	40
Caelo	Base cream, hydrophobic DAC	20003445	35225	40
Caelo	Base cream, hydrophobic DAC	20003446	35226	40
Caelo	Base cream, hydrophobic DAC	21000399	35369	40
Caelo	Base cream, hydrophobic DAC	21001222	35512	50
Caelo	Base cream, hydrophobic DAC	21001221	35513	50
Caelo	Base cream, hydrophobic DAC	21001223	35514	50
Caelo	Base cream, hydrophobic DAC	21001947	35647	50
Caelo	Base cream, hydrophobic DAC	21001948	35648	50
Caelo	Base cream, hydrophobic DAC	21001949	35649	50
Caelo	Base cream, hydrophobic DAC	21001950	35650	50
Caelo	Base cream, hydrophobic DAC	21002902	35806	50
Caelo	Base cream, hydrophobic DAC	21002903	35807	50
Caelo	Base cream, hydrophobic DAC	21003889	35957	40
Caelo	Base cream, hydrophobic DAC	21003890	35958	40
Caelo	Base cream, hydrophobic DAC	21003891	35959	10
Caelo	Base cream, hydrophobic DAC	22000800	36502	40
Caelo	Base cream, hydrophobic DAC	22002215	36503	40
Caelo	Base cream, hydrophobic DAC	22002217	36504	10
Caelo	Base cream, hydrophobic DAC	22002219	36505	10
apomix	Hydrophilic cream, non-ionic...	02A020322	36238	20
Bombastus	Hydrophilic cream, non-ionic...	21005180	36202	40
Caelo	Hydrophilic cream, non-ionic...	160175	31994	60

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Hydrophilic cream, non-ionic…	153258	31995	60
Caelo	Hydrophilic cream, non-ionic…	161141	32119	40
Caelo	Hydrophilic cream, non-ionic…	161142	32121	40
Caelo	Hydrophilic cream, non-ionic…	161694	32382	40
Caelo	Hydrophilic cream, non-ionic…	161695	32384	40
Caelo	Hydrophilic cream, non-ionic…	162220	32584	40
Caelo	Hydrophilic cream, non-ionic…	162221	32596	40
Caelo	Hydrophilic cream, non-ionic…	162579	32602	40
Caelo	Hydrophilic cream, non-ionic…	170097	33187	40
Caelo	Hydrophilic cream, non-ionic…	171134	33378	40
Caelo	Hydrophilic cream, non-ionic…	171140	33379	40
Caelo	Hydrophilic cream, non-ionic…	172126	33551	40
Caelo	Hydrophilic cream, non-ionic…	172610	33754	40
Caelo	Hydrophilic cream, non-ionic…	173139	34019	40
Caelo	Hydrophilic cream, non-ionic…	172940	34020	40
Caelo	Hydrophilic cream, non-ionic…	180503	34144	40
Caelo	Hydrophilic cream, non-ionic…	181752	34145	40
Caelo	Hydrophilic cream, non-ionic…	182180	34272	40
Caelo	Hydrophilic cream, non-ionic…	182595	34310	40
Caelo	Hydrophilic cream, non-ionic…	20003016	35158	40
Caelo	Hydrophilic cream, non-ionic…	21000505	35329	40
Caelo	Hydrophilic cream, non-ionic…	21001333	35519	50
Caelo	Hydrophilic cream, non-ionic…	21003276	35812	50
Caelo	Hydrophilic cream, non-ionic…	21003888	35931	40
Caelo	Hydrophilic cream, non-ionic…	21003885	35932	40
Caelo	Hydrophilic cream, non-ionic…	22000034	36085	40
Caelo	Hydrophilic cream, non-ionic…	22000797	36403	40
Caelo	Hydrophilic cream, non-ionic…	22002100	36404	40
apomix	Hydrophilic cream, non-ionic…	07B030417	33283	40
apomix	Hydrophilic cream, non-ionic…	16B230817	33643	40
apomix	Hydrophilic cream, non-ionic…	04B020321	35293	40
apomix	Hydrophilic cream, non-ionic…	06B210322	36229	40
apomix	Skin care ointment W/L SR	31A130717	33627	40
apomix	Skin care ointment W/L SR	22B211021	36232	40
Pharmachem	Skin care ointment W/L SR	180117	33294	40
apomix	Skin care ointment W/L SR (w…	14B060417	33264	40
apomix	Skin care ointment W/L SR (w…	37A021117	33792	40
apomix	Skin care ointment W/L SR (w…	24B300821	35814	50
apomix	Skin care ointment W/L SR (w…	10A070422	36233	40
Fagron	Transdermal base cream	1609813	33479	40
Fagron	Transdermal base cream	1802650/2	34204	40
Fagron	Transdermal base cream	20001002	34847	40
Fagron	Transdermal base cream	21J15-T06-091933	36227	40
Dr. Wolff	Wolff® base half-fat cream	702500	33484	40
Dr. Wolff	Wolff® base half-fat cream	701451	33485	40
Dr. Wolff	Wolff® base half-fat cream	010680	35456	40
Caelo	Anionic hydrophilic cream DAB	154321	32034	60
Caelo	Anionic hydrophilic cream DAB	153969	32044	60
Caelo	Anionic hydrophilic cream DAB	154282	32047	45
Caelo	Anionic hydrophilic cream DAB	153575	32054	60
Caelo	Anionic hydrophilic cream DAB	154284	32056	60
Caelo	Anionic hydrophilic cream DAB	154281	32058	60
Caelo	Anionic hydrophilic cream DAB	154285	32060	60
Caelo	Anionic hydrophilic cream DAB	154283	32062	60
Caelo	Anionic hydrophilic cream DAB	161031	32147	40
Caelo	Anionic hydrophilic cream DAB	161510	32219	40
Caelo	Anionic hydrophilic cream DAB	161507	32221	40
Caelo	Anionic hydrophilic cream DAB	161506	32427	40
Caelo	Anionic hydrophilic cream DAB	161506	32428	40
Caelo	Anionic hydrophilic cream DAB	161510	32429	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Anionic hydrophilic cream DAB	161510	32430	40
Caelo	Anionic hydrophilic cream DAB	161798	32432	40
Caelo	Anionic hydrophilic cream DAB	161798	32433	40
Caelo	Anionic hydrophilic cream DAB	161798	32434	40
Caelo	Anionic hydrophilic cream DAB	161529	32438	40
Caelo	Anionic hydrophilic cream DAB	161529	32439	40
Caelo	Anionic hydrophilic cream DAB	161526	32441	40
Caelo	Anionic hydrophilic cream DAB	161526	32442	40
Caelo	Anionic hydrophilic cream DAB	161526	32443	40
Caelo	Anionic hydrophilic cream DAB	161527	32445	40
Caelo	Anionic hydrophilic cream DAB	161527	32446	40
Caelo	Anionic hydrophilic cream DAB	161528	32448	40
Caelo	Anionic hydrophilic cream DAB	161528	32449	40
Caelo	Anionic hydrophilic cream DAB	161561	32642	40
Caelo	Anionic hydrophilic cream DAB	161563	32643	40
Caelo	Anionic hydrophilic cream DAB	161796	32646	40
Caelo	Anionic hydrophilic cream DAB	162500	32650	40
Caelo	Anionic hydrophilic cream DAB	162501	32652	40
Caelo	Anionic hydrophilic cream DAB	162589	32655	40
Caelo	Anionic hydrophilic cream DAB	162590	32657	40
Caelo	Anionic hydrophilic cream DAB	162591	32659	40
Caelo	Anionic hydrophilic cream DAB	162591	32660	40
Caelo	Anionic hydrophilic cream DAB	162592	32662	40
Caelo	Anionic hydrophilic cream DAB	162593	32664	40
Caelo	Anionic hydrophilic cream DAB	162593	32665	40
Caelo	Anionic hydrophilic cream DAB	162593	32666	40
Caelo	Anionic hydrophilic cream DAB	162594	32668	40
Caelo	Anionic hydrophilic cream DAB	162596	32670	40
Caelo	Anionic hydrophilic cream DAB	162596	32671	40
Caelo	Anionic hydrophilic cream DAB	162597	32673	40
Caelo	Anionic hydrophilic cream DAB	162599	32675	40
Caelo	Anionic hydrophilic cream DAB	162600	32677	40
Caelo	Anionic hydrophilic cream SR...	162587	32552	40
Caelo	Anionic hydrophilic cream SR...	162587	32553	40
Caelo	Anionic hydrophilic cream wi...	160674	32134	40
Caelo	Anionic hydrophilic cream wi...	160674	32135	40
Caelo	Anionic hydrophilic cream wi...	160674	32136	40
Caelo	Anionic hydrophilic cream wi...	160675	32138	40
Caelo	Anionic hydrophilic cream wi...	160676	32140	40
Caelo	Anionic hydrophilic cream wi...	161918	32423	40
Caelo	Anionic hydrophilic cream wi...	161919	32425	40
Caelo	Anionic hydrophilic cream wi...	161918	32622	40
Caelo	Anionic hydrophilic cream wi...	161919	32623	40
Caelo	Anionic hydrophilic cream wi...	170302	33352	40
Caelo	Anionic hydrophilic cream wi...	170299	33356	40
apomix	Anionic hydrophlic cream wit...	05B310517	33517	40
Caelo	Base cream, hydrophobic DAC	160748	32150	40
Caelo	Base cream, hydrophobic DAC	160749	32152	40
Caelo	Base cream, hydrophobic DAC	160751	32154	40
Caelo	Base cream, hydrophobic DAC	160750	32226	40
Caelo	Base cream, hydrophobic DAC	161654	32371	41
Caelo	Base cream, hydrophobic DAC	161655	32373	41
Caelo	Base cream, hydrophobic DAC	161656	32375	40
Caelo	Base cream, hydrophobic DAC	161657	32377	41
Caelo	Base cream, hydrophobic DAC	161654	32491	40
Caelo	Base cream, hydrophobic DAC	161655	32492	40
Caelo	Base cream, hydrophobic DAC	161742	32508	40
Caelo	Base cream, hydrophobic DAC	161656	32509	40
Caelo	Base cream, hydrophobic DAC	161657	32510	40
Caelo	Base cream, hydrophobic DAC	171504	33377	40

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Hydrophilic cream, non-ionic...	161141	32120	40
Caelo	Hydrophilic cream, non-ionic...	161142	32122	40
Caelo	Hydrophilic cream, non-ionic...	161694	32383	40
Caelo	Hydrophilic cream, non-ionic...	161695	32385	40
Caelo	Hydrophilic cream, non-ionic...	161694	32582	40
Caelo	Hydrophilic cream, non-ionic...	161695	32583	40
Caelo	Hydrophilic cream, non-ionic...	162220	32585	40
Caelo	Hydrophilic cream, non-ionic...	162220	32594	40
Caelo	Hydrophilic cream, non-ionic...	162220	32595	40
Caelo	Hydrophilic cream, non-ionic...	162221	32597	40
Caelo	Hydrophilic cream, non-ionic...	162221	32598	40
Caelo	Hydrophilic cream, non-ionic...	162221	32599	40
Caelo	Hydrophilic cream, non-ionic...	162221	32600	40
Caelo	Hydrophilic cream, non-ionic...	162221	32601	40
Caelo	Hydrophilic cream, non-ionic...	162579	32603	40

- 92 817 spectra from a total of 2275 batches from further 339 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 34 407 spectra from 1258 *Apo-Ident* customers from 5947 batches from the substance/substance group *Hydrophilic ointments*.
- Among them are spectra of independent samples from 5806 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Anionic hydrophilic cream SR...	110913	1
	Base cream, hydrophobic DAC	12229302	2
	Base cream, hydrophobic DAC	141318	1
	Anionic hydrophilic cream SR...	14182102	1
	Base cream, hydrophobic DAC	160825	1
	Base cream, hydrophobic DAC	162169	1
	Base cream, hydrophobic DAC	16293901	1
	Anionic hydrophilic cream SR...	277637	2
	Anionic hydrophilic cream DAB	285597	1
	Anionic hydrophilic cream DAB	293437	1
00229352	Hydrophilic cream, non-ionic...	19005193	1
0056373	Base cream, hydrophobic DAC	180757	2
06,Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000921001	1
13.11.18 PHARMACHEM/GEHE	Base cream, hydrophobic DAC	181196	1
17000922	Anionic hydrophilic cream DAB	311128	1
20.12.2016 Sanacorp 6,00EUR	Anionic hydrophilic cream DAB	16259701	1
Aallianc. Healthc. / Be...	Anionic hydrophilic cream SR...	24A100718	1
Aallianc. Healthc. / Ph...	Base cream, hydrophobic DAC	191489	3
aelo	Anionic hydrophilic cream wi...	14214101	1
AEP GmbH	Skin care ointment W/L SR (w...	14B140319	1
AEP GmbH	Skin care ointment W/L SR (w...	16B170419	1
AEP	Anionic hydrophilic cream DAB	18298401	1
AEP	Base cream, hydrophobic DAC	20001227	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
AEP	Base cream, hydrophobic DAC	21001558	4
AH 24.02.15	Base cream, hydrophobic DAC	14335502	1
AHC 28.05.13 EK2,95	Anionic hydrophilic cream DAB	13036301	1
AHC	Anionic hydrophilic cream wi...	20000190001	1
AHC	Base cream, diluted	20000701002	2
AHC	Anionic hydrophilic cream SR...	2000243005	1
AHD / Pharmachem Pößneck	Base cream, hydrophobic DAC	160138	1
AHD / Pharmachem Pößneck	Base cream, hydrophobic DAC	160814	1
AHD / Pharmachem Pößneck	Base cream, hydrophobic DAC	162169	1
AHD /Pharmachem Pößneck	Base cream, hydrophobic DAC	171128	2
AHD 05.03.15 3,33	Anionic hydrophilic cream DAB	14264001	1
AHD 08.09.14 EK 5,31	Hydrophilic cream, non-ionic...	287711	1
AHD 09.03.2017 EK: 5,94	Anionic hydrophilic cream DAB	16328001	1
AHD 11.05.20	Anionic hydrophilic cream DAB	20000028001	1
AHD 12.5.14, Preis 6,00	Anionic hydrophilic cream DAB		1
AHD Pharmachem Gmbh	Base cream, hydrophobic DAC	190638	1
AHD Pharmachem Gmbh	Base cream, hydrophobic DAC	191487	1
AHD Pharmachem Gmbh	Base cream, hydrophobic DAC	191488	1
AHD Pharmachem Gmbh	Base cream, hydrophobic DAC	1925661	3
AHD, 02.04.2013	Base cream, hydrophobic DAC	12308102	1
AHD, 31.10.2013	Anionic hydrophilic cream DAB	13313201	1
AHD,15.04.2013	Anionic hydrophilic cream DAB	12314701	1
AHD/ DR Wolf	Wolff® base half-fat cream	609950	1
AHD/ Pharmachem	Base cream, hydrophobic DAC	152210	2
AHD/ Pharmachem	Base cream, hydrophobic DAC	160137	3
AHD/ Pharmachem	Base cream, hydrophobic DAC	163238	2
ahd/lamotte	Anionic hydrophilic cream DAB	14118401	1
AHD/Lamotte	Anionic hydrophilic cream SR...	18147501	1
AHD/Pharmachem GmbH&Co.K	Base cream, hydrophobic DAC	182221	1
AHD/Pharmachem GmbH&Co.K	Base cream, hydrophobic DAC	1925661	1
AHD/Pharmachem GmbH	Base cream, hydrophobic DAC	153627	1
AHD/Pharmachem.	Base cream, hydrophobic DAC	170008	1
AHD/Pharmachem	Base cream, hydrophobic DAC	150404	1
AHD/Pharmachem	Base cream, hydrophobic DAC	152210	1
AHD/Pharmachem	Base cream, hydrophobic DAC	153625	4
AHD/Pharmachem	Base cream, hydrophobic DAC	153626	1
AHD/Pharmachem	Base cream, hydrophobic DAC	162170	1
Ahd/PharmachemPößneck	Base cream, hydrophobic DAC	21013	1
AHD	Base cream, hydrophobic DAC	14145401	1
AHD	Anionic hydrophilic cream SR...	14244702	1
AHD	Anionic hydrophilic cream SR...	14301501	1
AHD	Hydrophilic cream, non-ionic...	14A300418	1
AHD	Anionic hydrophilic cream DAB	15401301	2
AHD	Anionic hydrophilic cream DAB	16168802	1
AHD	Anionic hydrophilic cream DAB	16180101	1
AHD	Anionic hydrophilic cream DAB	16259201	1
AHD	Anionic hydrophilic cream DAB	17083801	5
AHD	Anionic hydrophilic cream DAB	170838601	1
AHD	Anionic hydrophilic cream DAB	17143601	1
AHD	Anionic hydrophilic cream DAB	17143801	1
AHD	Anionic hydrophilic cream DAB	17200701	2
AHD	Anionic hydrophilic cream DAB	17270301	2
AHD	Anionic hydrophilic cream DAB	17A270520	1
AHD	Hydrophilic cream, non-ionic...	18005880	1
AHD	Anionic hydrophilic cream DAB	18160301	3
AHD	Anionic hydrophilic cream DAB	1816301	1
AHD	Anionic hydrophilic cream DAB	18243401	1
AHD	Anionic hydrophilic cream DAB	18297901	3
AHD	Base cream, hydrophobic DAC	18G31-t09-058735	1
AHD	Hydrophilic cream, non-ionic...	19002037	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
AHD	Anionic hydrophilic cream SR...	19021401	2
AHD	Hydrophilic cream, non-ionic...	20001910	1
AHD	Anionic hydrophilic cream DAB	20002943001	1
AHD	Anionic hydrophilic cream SR...	281866	1
AHD	Anionic hydrophilic cream SR...	292976	1
AHD	Anionic hydrophilic cream SR...	292977	1
AHD	Anionic hydrophilic cream SR...	296409	1
AHD	Wolff® base half-fat cream	602290	1
AHDE 12.09.2014	Anionic hydrophilic cream DAB	14144301	1
AHDE 22.05.2015	Anionic hydrophilic cream DAB	14366801	4
Ahde 27.11.17	Anionic hydrophilic cream wi...	310273	1
AHL	Wolff® base half-fat cream	608180	1
AlH	Anionic hydrophilic cream DAB	16258901	1
ALH	Wolff® base half-fat cream	602050	1
Allianc. Health. / Phar...	Base cream, hydrophobic DAC	170010	1
Allianc. Health. /bo	Anionic hydrophilic cream DAB	18001562	1
Alliance H.	Hydrophilic cream, non-ionic...	19055601	1
Alliance H.	Anionic hydrophilic cream wi...	19093901	2
Alliance health	Anionic hydrophilic cream DAB	14233001	1
Alliance Health	Anionic hydrophilic cream DAB	18006016	1
Alliance Healthcare/Dr....	Wolff® base half-fat cream	10680	1
Alliance Healthcare/Pha...	Base cream, hydrophobic DAC	190207	1
Alliance Healthcare	Anionic hydrophilic cream DAB	13363401	1
Alliance Healthcare	Hydrophilic cream, non-ionic...	14A-110619	1
Alliance Healthcare	Anionic hydrophilic cream DAB	18006025	1
Alliance Healthcare	Anionic hydrophilic cream DAB	18006026	2
Alliance Healthcare	Hydrophilic cream, non-ionic...	19005187	1
Alliance Healthcare	Anionic hydrophilic cream DAB	19272601	1
Alliance Healthcare	Hydrophilic cream, non-ionic...	1A030113	2
Alliance Healthcare	Anionic hydrophilic cream DAB	20000924002	2
Alliance Healthcare	Anionic hydrophilic cream DAB	21003944001	2
alliance healthcare	Anionic hydrophilic cream SR...	2A020119	1
Alliance Healthcare	Hydrophilic cream, non-ionic...	301627	1
Alliance Healthcare	Anionic hydrophilic cream SR...	302199	1
Alliance Healthcare	Wolff® base half-fat cream	705760	1
Alliance Healthcare	Wolff® base half-fat cream	707370	1
Alliance Healthcare	Wolff® base half-fat cream	711250	2
Alliance Healthcare	Wolff® base half-fat cream	7742	2
Alliance Healthcare	Wolff® base half-fat cream	805720	5
Alliance Healthcare	Wolff® base half-fat cream	810201	1
Alliance Healthcare	Wolff® base half-fat cream	810800	2
Alliance Healthcare	Wolff® base half-fat cream	910460	5
Alliance Healthcare	Hydrophilic cream, non-ionic...	9A240418	1
Alliance/Dr.Wolff	Wolff® base half-fat cream	501470	1
Alliance/Pharmachem	Base cream, hydrophobic DAC	181196	1
Alliance/Pharmachem	Base cream, hydrophobic DAC	1925691	2
Alliance/Pharmachem	Base cream, hydrophobic DAC	20001232	3
Alliance/Pharmachem	Base cream, hydrophobic DAC	20001233	1
Alliance/Pharmachem	Base cream, hydrophobic DAC	20003527	1
Alliance/Pharmachem	Base cream, hydrophobic DAC	20003529	1
Alliance/Pharmachem	Base cream, hydrophobic DAC	21001559	1
Alliance	Base cream, hydrophobic DAC	170010	2
alliance	Base cream, hydrophobic DAC	18286702	1
Alliance	Hydrophilic cream, non-ionic...	19002036	1
Alliance	Hydrophilic cream, non-ionic...	200002461003	1
Alliance	Base cream, hydrophobic DAC	20001227	1
Alliance	Anionic hydrophilic cream SR...	20003746001	1
Alliance	Anionic hydrophilic cream SR...	21000339001	1
Alliance	Wolff® base half-fat cream	901920	1
Alliance	Hydrophilic cream, non-ionic...	90714	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Alliance21.01.15	Anionic hydrophilic cream DAB	14233101	1
Allianz Healthcare	Anionic hydrophilic cream DAB	16328001	1
Allianz Healthcare	Anionic hydrophilic cream DAB	16328401	1
Allianz Healthcare	Anionic hydrophilic cream wi...	17030301	1
Allianz Healthcare	Anionic hydrophilic cream DAB	18298301	1
Allianz Healthcare	Anionic hydrophilic cream wi...	1902701	1
Allianz Healthcare	Anionic hydrophilic cream wi...	19027501	1
Allianz Healthcare	Anionic hydrophilic cream DAB	19071601	1
Allianz Healthcare	Anionic hydrophilic cream wi...	19093701	2
Allianz Healthcare	Anionic hydrophilic cream DAB	191611701	1
Allianz Healthcare	Anionic hydrophilic cream DAB	19206301	1
Allianz Healthcare	Anionic hydrophilic cream DAB	19206401	1
Allianz	Anionic hydrophilic cream DAB	17299401	1
Allianz	Anionic hydrophilic cream DAB	17299601	1
Allianz	Anionic hydrophilic cream DAB	17299801	1
Allianz	Anionic hydrophilic cream SR...	18001478	1
Allianz	Base cream, hydrophobic DAC	180756	1
Alte Apotheke	Anionic hydrophilic cream DAB	16158501	1
Alte Apotheke	Base cream, hydrophobic DAC	16165701	1
Alte Apotheke	Anionic hydrophilic cream SR...	303735	1
AMH Niemann / E	Anionic hydrophilic cream SR...	12A070519	1
AMH Niemann / E	Anionic hydrophilic cream SR...	14A29058	1
AMH Niemann / E	Anionic hydrophilic cream SR...	16A050515	1
AMH Niemann / E	Anionic hydrophilic cream SR...	17A190618	1
AMH Niemann / E	Anionic hydrophilic cream SR...	1A050116	1
AMH Niemann / E	Anionic hydrophilic cream SR...	20A020615	1
AMH Niemann / E	Anionic hydrophilic cream SR...	22A040718	1
AMH Niemann / E	Anionic hydrophilic cream SR...	4A030214	1
AMH Niemann / E	Anionic hydrophilic cream SR...	6A270218	1
AMH Niemann / G	Anionic hydrophilic cream SR...	10A050315	1
AMH Niemann / G	Anionic hydrophlic cream wit...	10B060814	1
AMH Niemann / G	Anionic hydrophilic cream SR...	11A010414	1
AMH Niemann / G	Anionic hydrophilic cream SR...	11A110418	1
AMH Niemann / G	Anionic hydrophilic cream SR...	12A030517	1
AMH Niemann / G	Anionic hydrophilic cream SR...	12A310315	1
AMH Niemann / G	Anionic hydrophilic cream SR...	13A111016	1
AMH Niemann / G	Anionic hydrophilic cream SR...	13A191118	1
AMH Niemann / G	Anionic hydrophilic cream SR...	14A300316	3
AMH Niemann / G	Anionic hydrophilic cream SR...	21A220617	1
AMH Niemann / G	Anionic hydrophilic cream SR...	29A020914	1
AMH Niemann / G	Anionic hydrophilic cream SR...	2A130114	1
AMH Niemann / G	Anionic hydrophilic cream SR...	31A230914	1
AMH Niemann / G	Anionic hydrophilic cream SR...	33A230915	1
AMH Niemann / G	Anionic hydrophilic cream SR...	3A200115	1
AMH Niemann / G	Anionic hydrophilic cream SR...	41A101214	1
AMH Niemann / G	Anionic hydrophlic cream wit...	4B100314	1
AMH Niemann / G	Anionic hydrophlic cream wit...	4B220518	1
AMH Niemann / G	Anionic hydrophlic cream wit...	6B060514	1
AMH Niemann / G	Anionic hydrophlic cream wit...	6B190516	1
AMH Niemann / G	Anionic hydrophlic cream wit...	7B080615	1
AMH Niemann / G	Anionic hydrophilic cream SR...	9A210317	1
AMH Niemann / K	Anionic hydrophilic cream SR...	13A220316	1
AMH Niemann / K	Anionic hydrophilic cream SR...	22A090616	1
AMH Niemann / K	Anionic hydrophilic cream SR...	36A041218	1
AMH Niemann / K	Anionic hydrophilic cream SR...	3A310117	1
AMH Niemann / K	Anionic hydrophilic cream SR...	5A110219	1
AMH Niemann / Phoenix	Anionic hydrophilic cream SR...	7A230322	1
AMH Niemann GmbH & Co K...	Anionic hydrophilic cream SR...	7A270213	2
AMH Niemann GmbH & Co. ...	Hydrophilic cream, non-ionic...	3B260219	1
AMH Niemann GmbH & Co. ...	Hydrophilic cream, non-ionic...	10B010719	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
AMH Niemann GmbH & Co. KG	Hydrophilic cream, non-ionic…	27A150513	1
AMH Niemann GmbH & Co. KG	Anionic hydrophilic cream SR…	30A0207123	1
AMH Niemann GmbH & Co. KG	Hydrophilic cream, non-ionic…	34A210916	1
AMH Niemann GmbH & Co. KG	Hydrophilic cream, non-ionic…	35A070813	1
AMH Niemann GmbH& Co. K…	Hydrophilic cream, non-ionic…	12B030613	1
AMH Niemann GmbH& CoKG/…	Anionic hydrophlic cream wit…	9B141019	1
AMH Niemann GmbH&Co KG	Hydrophilic cream, non-ionic…	2B130114	1
AMH Niemann GmbH&Co.KG	Anionic hydrophilic cream SR…	15A040413	1
AMH Niemann GmbH&Co.KG	Anionic hydrophlic cream wit…	3B020315	1
AMH Niemann Kehr	Anionic hydrophilic cream SR…	30A160816	2
AMH Niemann/E	Anionic hydrophilic cream SR…	1A080113	3
AMH Niemann/E	Anionic hydrophilic cream SR…	31A091012	1
AMH Niemann/E	Anionic hydrophilic cream SR…	42A141013	1
AMH Niemann/E	Anionic hydrophilic cream SR…	45A141113	1
AMH Niemann/G	Anionic hydrophlic cream wit…	10B160712	1
AMH Niemann/G	Hydrophilic cream, non-ionic…	15A140512	1
AMH Niemann/G	Anionic hydrophilic cream SR…	18A180612	1
AMH Niemann/G	Anionic hydrophlic cream wit…	1B070114	1
AMH Niemann/G	Hydrophilic cream, non-ionic…	20A090413	1
AMH Niemann/G	Anionic hydrophilic cream SR…	24A070812	1
AMH Niemann/G	Anionic hydrophilic cream SR…	36A031115	1
AMH Niemann/G	Anionic hydrophilic cream SR…	38A271112	1
AMH Niemann/G	Anionic hydrophilic cream SR…	44A051113	1
AMH Niemann/Holdermann	Anionic hydrophlic cream wit…	5B250521	1
AMH Niemann/K	Hydrophilic cream, non-ionic…	10A190312	1
AMH Niemann/K	Anionic hydrophlic cream wit…	14B161213	1
AMH Niemann/K	Anionic hydrophlic cream wit…	17B271212	1
AMH Niemann/K	Anionic hydrophilic cream SR…	36A270813	1
AMH Niemann	Anionic hydrophilic cream SR…	1A080113	1
AMH Niemann	Hydrophilic cream, non-ionic…	7B020413	2
AMH/Phoenix	Anionic hydrophlic cream wit…	9B021121	1
AMH/Phönix	Anionic hydrophilic cream SR…	10A260318	1
AMH/Phönix	Anionic hydrophilic cream SR…	1A070119	1
AMH/Phönix	Anionic hydrophilic cream SR…	31A021018	1
AMH/Phönix	Anionic hydrophilic cream SR…	35A211117	1
AMH/Phönix	Anionic hydrophilic cream SR…	6A020320	1
AMH-NiemannGmbH&CO,15.0…	Hydrophilic cream, non-ionic…	15B010817	1
AMW Niemann GmbH & Co. KG	Anionic hydrophlic cream wit…	9B150816	1
Anzag /Pharmachem	Base cream, hydrophobic DAC	160825	1
Anzag 07.05.13 ek:12,66EUR	Base cream, hydrophobic DAC	12229302	1
Anzag 19.04.18	Anionic hydrophilic cream wi…	17262101	1
Anzag 25.01.2013	Anionic hydrophilic cream DAB	12266101	1
Anzag 27.03.2015	Anionic hydrophilic cream DAB	14264301	1
Anzag 30.10.12 ek:12,68EUR	Base cream, hydrophobic DAC	12151601	1
Anzag ek: 5,17EUR 08.04.13	Anionic hydrophilic cream SR…	277636	3
Anzag, 16.01.2019	Anionic hydrophilic cream DAB	18004836	1
Anzag/ Dr.Wolff	Wolff® base half-fat cream	339140	1
Anzag/AMH/16.05.2012	Hydrophilic cream, non-ionic…	14B020212	1
Anzag/Bambastus	Base cream, hydrophobic DAC	305079	1
Anzag/Dr. Wolff	Wolff® base half-fat cream	702500	1
Anzag/Pharmachem	Base cream, hydrophobic DAC	120712	2
Anzag	Hydrophilic cream, non-ionic…	114761	1
Anzag	Anionic hydrophilic cream DAB	12204601	2
Anzag	Anionic hydrophilic cream DAB	12218501	1
Anzag	Anionic hydrophilic cream DAB	12314101	1
Anzag	Base cream, hydrophobic DAC	150405	1
Anzag	Anionic hydrophilic cream DAB	15352901	1
Anzag	Base cream, hydrophobic DAC	160136	1
Anzag	Anionic hydrophilic cream DAB	16158701	4
Anzag	Anionic hydrophilic cream DAB	16259801	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag	Anionic hydrophilic cream SR…	17000164	1
Anzag	Anionic hydrophilic cream DAB	17083802	2
Anzag	Anionic hydrophilic cream DAB	17084201	2
Anzag	Base cream, hydrophobic DAC	171127	2
Anzag	Anionic hydrophilic cream DAB	17142102	1
Anzag	Anionic hydrophilic cream DAB	17142501	1
Anzag	Anionic hydrophilic cream DAB	17142601	1
Anzag	Anionic hydrophilic cream DAB	17142901	1
Anzag	Anionic hydrophilic cream DAB	17298802	1
Anzag	Base cream, hydrophobic DAC	18002827	1
Anzag	Hydrophilic cream, non-ionic…	19055601	1
Anzag	Base cream, hydrophobic DAC	190638	1
Anzag	Anionic hydrophilic cream DAB	19072701	1
Anzag	Anionic hydrophilic cream DAB	19206001	1
Anzag	Anionic hydrophilic cream SR…	19206201	1
Anzag	Anionic hydrophilic cream DAB	19206401	1
Anzag	Anionic hydrophilic cream SR…	19240002	1
Anzag	Anionic hydrophilic cream DAB	20000319001	1
Anzag	Base cream, diluted	20002515004	1
Anzag	Base cream, diluted	20003510001	3
Anzag	Anionic hydrophilic cream SR…	21000339002	1
Anzag	Anionic hydrophilic cream DAB	21001499001	1
Anzag	Anionic hydrophilic cream DAB	271710	1
anzag	Anionic hydrophilic cream SR…	285899	1
Anzag	Hydrophilic cream, non-ionic…	286330	2
Anzag	Anionic hydrophilic cream SR…	286979	1
Anzag	Hydrophilic cream, non-ionic…	294311	1
Anzag	Anionic hydrophilic cream SR…	295232	1
Anzag	Anionic hydrophilic cream DAB	297911	2
Anzag	Anionic hydrophilic cream SR…	300563	1
Anzag	Anionic hydrophilic cream SR…	305067	1
Anzag	Anionic hydrophilic cream SR…	308217	1
Anzag	Anionic hydrophilic cream SR…	6A260116	1
api-ident	Anionic hydrophilic cream DAB	17270302	1
api-ident	Base cream, hydrophobic DAC	18051001	1
Apo Holzapfel	Anionic hydrophilic cream SR…	2018	1
Apo Ident/ Noweda	Anionic hydrophilic cream wi…	18109801	3
apo	Hydrophilic cream, non-ionic…	21B171218	1
apo	Hydrophilic cream, non-ionic…	4807013	1
apomi	Anionic hydrophilic cream SR…	24A100718	1
apomicx/Sanacorp	Anionic hydrophilic cream SR…	20A020615	1
apomix	Hydrophilic cream, non-ionic…		2
apomix	Anionic hydrophilic cream SR…	10A010414	1
apomix	Anionic hydrophilic cream SR…	10A050315	1
apomix	Anionic hydrophilic cream SR…	10A100521	4
apomix	Anionic hydrophilic cream SR…	10A220216	1
apomix	Anionic hydrophilic cream SR…	10A260318	4
apomix	Anionic hydrophilic cream SR…	10A280317	2
apomix	Anionic hydrophilic cream SR…	10A310320	5
apomix	Hydrophilic cream, non-ionic…	10B010719	2
apomix	Hydrophilic cream, non-ionic…	10B060514	2
apomix	Anionic hydrophlic cream wit…	10B060916	1
apomix	Hydrophilic cream, non-ionic…	10B070420	1
apomix	Hydrophilic cream, non-ionic…	10B090621	1
apomix	Hydrophilic cream, non-ionic…	10B10719	1
apomix	Hydrophilic cream, non-ionic…	10B160517	1
apomix	Hydrophilic cream, non-ionic…	10B190516	2
apomix	Anionic hydrophlic cream wit…	10B191120	1
apomix	Hydrophilic cream, non-ionic…	10B200415	1
apomix	Hydrophilic cream, non-ionic…	10B220513	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrophilic cream, non-ionic…	10B250618	1
apomix	Anionic hydrophlic cream wit…	10B251119	4
apomix	Anionic hydrophlic cream wit…	10B291117	2
apomix	Anionic hydrophilic cream SR…	11a010316	1
apomix	Anionic hydrophilic cream SR…	11A010316	3
apomix	Anionic hydrophilic cream SR…	11A010414	1
apomix	Anionic hydrophilic cream SR…	11A020419	11
apomix	Hydrophilic cream, non-ionic…	11A040313	2
apomix	Anionic hydrophilic cream SR…	11A110418	11
apomix	Skin care ointment W/L SR	11A190214	1
apomix	Hydrophilic cream, non-ionic…	11A190417	6
apomix	Anionic hydrophilic cream SR…	11A250521	3
apomix	Hydrophilic cream, non-ionic…	11A270319	2
apomix	Hydrophilic cream, non-ionic…	11B090621	1
apomix	Hydrophilic cream, non-ionic…	11B110515	1
apomix	Hydrophilic cream, non-ionic…	11B220513	1
apomix	Skin care ointment W/L SR	11B270317	1
apomix	Hydrophilic cream, non-ionic…	11b300516	1
apomix	Hydrophilic cream, non-ionic…	11B300620	1
apomix	Hydrophilic cream, non-ionic…	11B310517	1
apomix	Hydrophilic cream, non-ionic…	128070729	1
apomix	Anionic hydrophilic cream SR…	12A030517	1
apomix	Hydrophilic cream, non-ionic…	12A040313	4
apomix	Anionic hydrophilic cream SR…	12A070519	4
apomix	Anionic hydrophilic cream SR…	12a080316	2
apomix	Anionic hydrophilic cream SR…	12A080316	2
apomix	Anionic hydrophilic cream SR…	12A080414	2
apomix	Anionic hydrophilic cream SR…	12A150420	3
apomix	Hydrophilic cream, non-ionic…	12A160419	8
apomix	Hydrophilic cream, non-ionic…	12A2500417	1
apomix	Hydrophilic cream, non-ionic…	12a250417	1
apomix	Hydrophilic cream, non-ionic…	12A250417	2
apomix	Anionic hydrophilic cream SR…	12A310315	2
apomix	Anionic hydrophilic cream SR…	12A3103215	1
apomix	Anionic hydrophlic cream wit…	12B040912	1
apomix	Hydrophilic cream, non-ionic…	12B070720	1
apomix	Hydrophilic cream, non-ionic…	12B100718	6
apomix	Hydrophilic cream, non-ionic…	12B120617	1
apomix	Hydrophilic cream, non-ionic…	12B130819	1
apomix	Anionic hydrophilic cream DAB	12B141116	3
apomix	Hydrophilic cream, non-ionic…	12B210514	2
apomix	Anionic hydrophlic cream wit…	12B211015	1
apomix	Anionic hydrophlic cream wit…	12B212015	1
apomix	Anionic hydrophlic cream wit…	12B220914	2
apomix	Skin care ointment W/L SR (w…	12B280621	1
apomix	Anionic hydrophilic cream SR…	13A030517	3
apomix	Anionic hydrophilic cream SR…	13A030609	1
apomix	Anionic hydrophilic cream SR…	13A030619	5
apomix	Anionic hydrophilic cream SR…	13A080414	1
apomix	Anionic hydrophilic cream SR…	13A190313	1
apomix	Anionic hydrophilic cream SR…	13A200420	1
apomix	Anionic hydrophilic cream SR…	13A220316	2
apomix	Anionic hydrophilic cream SR…	13A220621	2
apomix	Hydrophilic cream, non-ionic…	13B020821	2
apomix	Hydrophilic cream, non-ionic…	13B080615	3
apomix	Hydrophilic cream, non-ionic…	13B090919	3
apomix	Skin care ointment W/L SR (w…	13B120418	1
apomix	Anionic hydrophlic cream wit…	13b141216	2
apomix	Anionic hydrophlic cream wit…	13B141216	2
apomix	Anionic hydrophlic cream wit…	13B161115	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrophilic cream, non-ionic…	13B180613	1
apomix	Hydrophilic cream, non-ionic…	13B200720	1
apomix	Hydrophilic cream, non-ionic…	13B280616	2
apomix	Hydrophilic cream, non-ionic…	13B280617	4
apomix	Hydrophilic cream, non-ionic…	13B310718	5
apomix	Hydrophilic cream, non-ionic…	148200818	1
apomix	Hydrophilic cream, non-ionic…	14A050520	2
apomix	Anionic hydrophilic cream SR…	14A070514	3
apomix	Anionic hydrophilic cream DAB	14A130721	6
apomix	Anionic hydrophilic cream SR…	14A150517	4
apomix	Anionic hydrophilic cream SR…	14a180616	1
apomix	Hydrophilic cream, non-ionic…	14A180619	12
apomix	Hydrophilic cream, non-ionic…	14A220517	1
apomix	Anionic hydrophilic cream SR…	14A290518	7
apomix	Hydrophilic cream, non-ionic…	14B120716	1
apomix	Hydrophilic cream, non-ionic…	14B180820	4
apomix	Hydrophilic cream, non-ionic…	14B200818	2
apomix	Hydrophilic cream, non-ionic…	14B240919	2
apomix	Hydrophilic cream, non-ionic…	14B260821	2
apomix	Hydrophilic cream, non-ionic…	14B280617	1
apomix	Anionic hydrophilic cream SR…	15A040413	3
apomix	Anionic hydrophilic cream SR…	15A050416	1
apomix	Anionic hydrophilic cream SR…	15A060416	1
apomix	Anionic hydrophilic cream SR…	15A06046	1
apomix	Skin care ointment W/L SR (w…	15A080518	1
apomix	Hydrophilic cream, non-ionic…	15A090620	2
apomix	Anionic hydrophilic cream SR…	15A120514	1
apomix	Anionic hydrophilic cream DAB	15A140520	8
apomix	Anionic hydrophilic cream SR…	15a180619	1
apomix	Anionic hydrophilic cream SR…	15A180619	1
apomix	Anionic hydrophilic cream SR…	15A240919	1
apomix	Hydrophilic cream, non-ionic…	15A270617	1
apomix	Anionic hydrophilic cream SR…	15A300518	3
apomix	Hydrophilic cream, non-ionic…	15B010817	1
apomix	Hydrophilic cream, non-ionic…	15B070714	1
apomix	Hydrophilic cream, non-ionic…	15B070920	1
apomix	Hydrophilic cream, non-ionic…	15B090620	1
apomix	Hydrophilic cream, non-ionic…	15B090713	3
apomix	Hydrophilic cream, non-ionic…	15B140419	1
apomix	Hydrophilic cream, non-ionic…	15B141019	3
apomix	Skin care ointment W/L SR (w…	15B170419	2
apomix	Skin care ointment W/L SR (w…	15B220216	1
apomix	Hydrophilic cream, non-ionic…	15B290615	1
apomix	Anionic hydrophlic cream wit…	15B291214	1
apomix	Anionic hydrophilic cream wi…	16191901	1
apomix	Anionic hydrophilic cream SR…	16A050612	1
apomix	Anionic hydrophilic cream SR…	16A060416	3
apomix	Anionic hydrophilic cream SR…	16A060611	1
apomix	Skin care ointment W/L SR (w…	16A080518	1
apomix	Anionic hydrophilic cream SR…	16A110718	1
apomix	Anionic hydrophilic cream SR…	16A130514	1
apomix	Anionic hydrophilic cream SR…	16A170821	1
apomix	Anionic hydrophilic cream SR…	16A240413	3
apomix	Skin care ointment W/L SR	16A250314	2
apomix	Anionic hydrophilic cream SR…	16A260520	1
apomix	Hydrophilic cream, non-ionic…	16A300512	2
apomix	Anionic hydrophilic cream SR…	16A300518	2
apomix	Anionic hydrophilic cream SR…	16A310517	2
apomix	Hydrophilic cream, non-ionic…	16B040918	1
apomix	Hydrophilic cream, non-ionic…	16B060917	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrophilic cream, non-ionic…	16B280920	1
apomix	Hydrophilic cream, non-ionic…	16B290713	1
apomix	Hydrophilic cream, non-ionic…	16B290816	2
apomix	Hydrophilic cream, non-ionic…	16B300620	3
apomix	Anionic hydrophilic cream DAB	17001305	2
apomix	Anionic hydrophilic cream SR…	17001699	2
apomix	Hydrophilic cream, non-ionic…	17002160	1
apomix	Hydrophilic cream, non-ionic…	17009601	2
apomix	Anionic hydrophilic cream DAB	170841901	1
apomix	Anionic hydrophilic cream SR…	17A030516	3
apomix	Hydrophilic cream, non-ionic…	17A030518	6
apomix	Anionic hydrophilic cream SR…	17A090719	6
apomix	Hydrophilic cream, non-ionic…	17A100315	1
apomix	Anionic hydrophilic cream SR…	17a10617	1
apomix	Anionic hydrophilic cream SR…	17A130617	2
apomix	Anionic hydrophilic cream DAB	17A190618	8
apomix	Anionic hydrophilic cream SR…	17A240413	1
apomix	Anionic hydrophilic cream SR…	17A270520	1
apomix	Hydrophilic cream, non-ionic…	17B011018	4
apomix	Hydrophilic cream, non-ionic…	17B031219	2
apomix	Hydrophilic cream, non-ionic…	17b040815	1
apomix	Hydrophilic cream, non-ionic…	17B040815	3
apomix	Hydrophilic cream, non-ionic…	17B120814	2
apomix	Hydrophilic cream, non-ionic…	17B280920	1
apomix	Anionic hydrophilic cream SR…	18001479	1
apomix	Hydrophilic cream, non-ionic…	18A020719	9
apomix	Anionic hydrophilic cream SR…	18A040516	5
apomix	Hydrophilic cream, non-ionic…	18A070612	1
apomix	Hydrophilic cream, non-ionic…	18A100717	3
apomix	Anionic hydrophilic cream SR…	18A140617	1
apomix	Anionic hydrophilic cream SR…	18A160719	2
apomix	Anionic hydrophilic cream SR…	18A180612	2
apomix	Hydrophilic cream, non-ionic…	18A190315	1
apomix	Anionic hydrophilic cream SR…	18A190618	1
apomix	Anionic hydrophilic cream SR…	18A210720	2
apomix	Hydrophilic cream, non-ionic…	18A220518	3
apomix	Anionic hydrophilic cream SR…	18A260514	4
apomix	Anionic hydrophilic cream SR…	18A280921	2
apomix	Hydrophilic cream, non-ionic…	18B060917	3
apomix	Hydrophilic cream, non-ionic…	18B190612	1
apomix	Hydrophilic cream, non-ionic…	18B240815	3
apomix	Hydrophilic cream, non-ionic…	18B270916	2
apomix	Hydrophilic cream, non-ionic…	18B291018	1
apomix	Anionic hydrophilic cream SR…	19A030614	3
apomix	Anionic hydrophilic cream SR…	19A030820	2
apomix	Anionic hydrophilic cream SR…	19A070513	1
apomix	Anionic hydrophilic cream SR…	19a180516	1
apomix	Anionic hydrophilic cream SR…	19A180516	1
apomix	Anionic hydrophilic cream SR…	19a200617	1
apomix	Anionic hydrophilic cream SR…	19A200617	5
apomix	Anionic hydrophilic cream SR…	19A200618	6
apomix	Anionic hydrophilic cream SR…	19A260515	2
apomix	Hydrophilic cream, non-ionic…	19A300315	6
apomix	Anionic hydrophilic cream SR…	19A300719	3
apomix	Hydrophilic cream, non-ionic…	19B011121	1
apomix	Hydrophilic cream, non-ionic…	19B021017	1
apomix	Hydrophilic cream, non-ionic…	19B031120	2
apomix	Hydrophilic cream, non-ionic…	19B100913	1
apomix	Hydrophilic cream, non-ionic…	19B121118	3
apomix	Hydrophilic cream, non-ionic…	19B220719	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrophilic cream, non-ionic…	19B260612	1
apomix	Anionic hydrophilic cream SR…	1A020117	1
apomix	Hydrophilic cream, non-ionic…	1A020120	1
apomix	Hydrophilic cream, non-ionic…	1A030112	1
apomix	Hydrophilic cream, non-ionic…	1A030113	1
apomix	Hydrophilic cream, non-ionic…	1A030118	4
apomix	Anionic hydrophilic cream SR…	1A050116	1
apomix	Anionic hydrophilic cream DAB	1A070119	6
apomix	Anionic hydrophilic cream SR…	1A070120	2
apomix	Anionic hydrophilic cream SR…	1A070121	7
apomix	Hydrophilic cream, non-ionic…	1A080113	1
apomix	Skin care ointment W/L SR	1A080114	1
apomix	Anionic hydrophilic cream SR…	1A100122	1
apomix	Hydrophilic cream, non-ionic…	1A140114	1
apomix	Hydrophilic cream, non-ionic…	1a200116	2
apomix	Hydrophilic cream, non-ionic…	1A200116	2
apomix	Hydrophilic cream, non-ionic…	1A210115	2
apomix	Hydrophilic cream, non-ionic…	1B070114	1
apomix	Hydrophilic cream, non-ionic…	1B070116	4
apomix	Hydrophilic cream, non-ionic…	1B070119	2
apomix	Hydrophilic cream, non-ionic…	1B070120	4
apomix	Anionic hydrophlic cream wit…	1B080118	2
apomix	Hydrophilic cream, non-ionic…	1B090118	3
apomix	Hydrophilic cream, non-ionic…	1B110121	3
apomix	Hydrophilic cream, non-ionic…	1B120115	1
apomix	Anionic hydrophlic cream wit…	1B160117	2
apomix	Anionic hydrophlic cream wit…	1B210120	1
apomix	Anionic hydrophlic cream wit…	1B70119	1
apomix	Base cream, hydrophobic DAC	20003531	3
apomix	Anionic hydrophilic cream SR…	20A020615	2
apomix	Anionic hydrophilic cream SR…	20a130819	1
apomix	Anionic hydrophilic cream SR…	20A130819	2
apomix	Anionic hydrophilic cream SR…	20A180820	5
apomix	Anionic hydrophilic cream SR…	20A200618	4
apomix	Hydrophilic cream, non-ionic…	20A220719	5
apomix	Hydrophilic cream, non-ionic…	20A280415	1
apomix	Hydrophilic cream, non-ionic…	20B210915	2
apomix	Hydrophilic cream, non-ionic…	20B231120	1
apomix	Hydrophilic cream, non-ionic…	20B290914	2
apomix	Hydrophilic cream, non-ionic…	20B291118	2
apomix	Skin care ointment W/L SR	211112	1
apomix	Anionic hydrophilic cream SR…	21A030718	4
apomix	Anionic hydrophilic cream SR…	21A080616	1
apomix	Anionic hydrophilic cream SR…	21A090615	1
apomix	Anionic hydrophilic cream SR…	21A180614	2
apomix	Anionic hydrophilic cream SR…	21A220617	6
apomix	Skin care ointment W/L SR	21A230414	1
apomix	Anionic hydrophilic cream SR…	21a80616	1
apomix	Hydrophilic cream, non-ionic…	21B081117	3
apomix	Hydrophilic cream, non-ionic…	21B08117	1
apomix	Hydrophilic cream, non-ionic…	21B141013	2
apomix	Hydrophilic cream, non-ionic…	21b141116	1
apomix	Hydrophilic cream, non-ionic…	21B14116	1
apomix	Hydrophilic cream, non-ionic…	21B151220	3
apomix	Hydrophilic cream, non-ionic…	21B171218	2
apomix	Skin care ointment W/L SR (w…	21B270519	1
apomix	Anionic hydrophilic cream SR…	22A020817	1
apomix	Anionic hydrophilic cream SR…	22A040717	3
apomix	Anionic hydrophilic cream SR…	22A040718	7
apomix	Anionic hydrophilic cream SR…	22A090616	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Anionic hydrophilic cream SR...	22A131221	1
apomix	Anionic hydrophilic cream SR...	22A150920	1
apomix	Anionic hydrophilic cream SR...	22A190819	2
apomix	Skin care ointment W/L SR	22A230414	1
apomix	Hydrophilic cream, non-ionic...	22B060812	1
apomix	Hydrophilic cream, non-ionic...	22B061114	1
apomix	Hydrophilic cream, non-ionic...	22B201117	5
apomix	Hydrophilic cream, non-ionic...	22B281013	1
apomix	Hydrophilic cream, non-ionic...	22B281116	1
apomix	Hydrophilic cream, non-ionic...	238141113	1
apomix	Anionic hydrophilic cream SR...	23A030919	5
apomix	Anionic hydrophilic cream SR...	23A040718	9
apomix	Anionic hydrophilic cream SR...	23A050717	2
apomix	Hydrophilic cream, non-ionic...	23A100615	1
apomix	Anionic hydrophilic cream SR...	23A130616	5
apomix	Anionic hydrophilic cream SR...	23A240614	1
apomix	Hydrophilic cream, non-ionic...	23A280416	2
apomix	Hydrophilic cream, non-ionic...	23B101115	1
apomix	Skin care ointment W/L SR (w...	23B280618	1
apomix	Hydrophilic cream, non-ionic...	23B291117	3
apomix	Anionic hydrophilic cream SR...	24A061020	2
apomix	Anionic hydrophilic cream SR...	24A100718	1
apomix	Anionic hydrophilic cream SR...	24A120717	1
apomix	Anionic hydrophilic cream SR...	24A170919	2
apomix	Hydrophilic cream, non-ionic...	24A270618	6
apomix	Anionic hydrophilic cream SR...	24A280616	3
apomix	Hydrophilic cream, non-ionic...	24A290920	3
apomix	Hydrophilic cream, non-ionic...	24B121216	4
apomix	Hydrophilic cream, non-ionic...	24B180912	1
apomix	Hydrophilic cream, non-ionic...	24B241115	1
apomix	Hydrophilic cream, non-ionic...	24B271217	3
apomix	Anionic hydrophilic cream SR...	25A050613	1
apomix	Hydrophilic cream, non-ionic...	25A070819	3
apomix	Anionic hydrophilic cream SR...	25A071020	1
apomix	Anionic hydrophilic cream SR...	25A110718	3
apomix	Anionic hydrophilic cream SR...	25A120717	1
apomix	Anionic hydrophilic cream SR...	25A141019	4
apomix	Hydrophilic cream, non-ionic...	25A201020	2
apomix	Anionic hydrophilic cream SR...	25A210812	1
apomix	Anionic hydrophilic cream SR...	25A240717	2
apomix	Anionic hydrophilic cream SR...	25A240919	1
apomix	Hydrophilic cream, non-ionic...	25A270618	7
apomix	Anionic hydrophilic cream SR...	25A290616	3
apomix	Hydrophilic cream, non-ionic...	25A300516	1
apomix	Hydrophilic cream, non-ionic...	25B081215	3
apomix	Hydrophilic cream, non-ionic...	25B161213	1
apomix	Anionic hydrophilic cream SR...	26a020817	1
apomix	Anionic hydrophilic cream DAB	26A020817	2
apomix	Anionic hydrophilic cream SR...	26A041119	10
apomix	Anionic hydrophilic cream SR...	26A060814	1
apomix	Hydrophilic cream, non-ionic...	26A080715	2
apomix	Anionic hydrophilic cream SR...	26A110718	5
apomix	Anionic hydrophilic cream SR...	26A130716	4
apomix	Hydrophilic cream, non-ionic...	26A210616	2
apomix	Anionic hydrophilic cream SR...	26A211020	1
apomix	Anionic hydrophilic cream SR...	26A220812	1
apomix	Hydrophilic cream, non-ionic...	26A270618	3
apomix	Hydrophilic cream, non-ionic...	26B151012	1
apomix	Hydrophilic cream, non-ionic...	26B201020	3
apomix	Anionic hydrophilic cream SR...	27A051119	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Anionic hydrophilic cream SR...	27A130716	3
apomix	Hydrophilic cream, non-ionic...	27A150513	1
apomix	Anionic hydrophilic cream SR...	27A210911	1
apomix	Hydrophilic cream, non-ionic...	27A211019	1
apomix	Hydrophilic cream, non-ionic...	27A220715	3
apomix	Anionic hydrophilic cream SR...	27A220817	3
apomix	Anionic hydrophilic cream SR...	27A261020	1
apomix	Anionic hydrophilic cream SR...	27A310718	1
apomix	Skin care ointment W/L SR	27B220818	1
apomix	Hydrophilic cream, non-ionic...	27B221012	1
apomix	Base cream, hydrophobic DAC	289719	1
apomix	Anionic hydrophilic cream SR...	28A040815	5
apomix	Hydrophilic cream, non-ionic...	28A060815	2
apomix	Anionic hydrophilic cream SR...	28A07018	1
apomix	Anionic hydrophilic cream SR...	28A070818	4
apomix	Anionic hydrophilic cream SR...	28A161219	5
apomix	Hydrophilic cream, non-ionic...	28A18018	1
apomix	Hydrophilic cream, non-ionic...	28A180718	2
apomix	Anionic hydrophilic cream SR...	28A190814	2
apomix	Hydrophilic cream, non-ionic...	28A220616	1
apomix	Anionic hydrophilic cream SR...	28A230817	1
apomix	Anionic hydrophilic cream SR...	28A250613	2
apomix	Anionic hydrophilic cream SR...	28A260716	3
apomix	Anionic hydrophilic cream DAB	28A271020	4
apomix	Hydrophilic cream, non-ionic...	28B221012	1
apomix	Hydrophilic cream, non-ionic...	29A020816	2
apomix	Anionic hydrophilic cream SR...	29A020914	3
apomix	Anionic hydrophilic cream SR...	29a070917	1
apomix	Anionic hydrophilic cream SR...	29A070917	2
apomix	Hydrophilic cream, non-ionic...	29A110815	1
apomix	Anionic hydrophilic cream SR...	29A140818	5
apomix	Anionic hydrophilic cream SR...	29a160816	1
apomix	Anionic hydrophilic cream SR...	29A160816	1
apomix	Anionic hydrophilic cream DAB	29A161219	3
apomix	Anionic hydrophilic cream SR...	29A191120	1
apomix	Anionic hydrophilic cream SR...	29A240912	1
apomix	Hydrophilic cream, non-ionic...	29B010818	2
apomix	Anionic hydrophilic cream SR...	2a030117	1
apomix	Anionic hydrophilic cream SR...	2A030117	6
apomix	Anionic hydrophilic cream SR...	2A030118	1
apomix	Hydrophilic cream, non-ionic...	2A040118	3
apomix	Anionic hydrophilic cream SR...	2A050116	1
apomix	Anionic hydrophilic cream SR...	2A070120	2
apomix	Anionic hydrophilic cream SR...	2A080119	1
apomix	Skin care ointment W/L SR	2A090114	1
apomix	Hydrophilic cream, non-ionic...	2A090215	4
apomix	Hydrophilic cream, non-ionic...	2A100220	5
apomix	Hydrophilic cream, non-ionic...	2A140113	3
apomix	Hydrophilic cream, non-ionic...	2A140114	2
apomix	Skin care ointment W/L SR	2A150119	1
apomix	Hydrophilic cream, non-ionic...	2a160117	1
apomix	Anionic hydrophilic cream SR...	2A260121	1
apomix	Anionic hydrophilic cream SR...	2A280217	1
apomix	Hydrophilic cream, non-ionic...	2B0102201	1
apomix	Hydrophilic cream, non-ionic...	2B010221	2
apomix	Anionic hydrophlic cream wit...	2B020221	1
apomix	Hydrophilic cream, non-ionic...	2B070120	1
apomix	Hydrophilic cream, non-ionic...	2B090222	1
apomix	Hydrophilic cream, non-ionic...	2B110219	3
apomix	Anionic hydrophlic cream wit...	2B120220	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrophilic cream, non-ionic…	2B140113	3
apomix	Hydrophilic cream, non-ionic…	2B160412	1
apomix	Anionic hydrophlic cream wit…	2B220218	3
apomix	Anionic hydrophlic cream wit…	2B220322	1
apomix	Anionic hydrophlic cream wit…	2B250116	1
apomix	Anionic hydrophlic cream wit…	2B250213	1
apomix	Hydrophilic cream, non-ionic…	2B300117	3
apomix	Base cream, hydrophobic DAC	307766	1
apomix	Hydrophilic cream, non-ionic…	30A010818	3
apomix	Anionic hydrophilic cream SR…	30A020713	3
apomix	Hydrophilic cream, non-ionic…	30a020816	2
apomix	Hydrophilic cream, non-ionic…	30A020816	3
apomix	Hydrophilic cream, non-ionic…	30A030613	3
apomix	Anionic hydrophilic cream SR…	30A140818	2
apomix	Anionic hydrophilic cream SR…	30A160816	2
apomix	Anionic hydrophilic cream SR…	30A160914	1
apomix	Hydrophilic cream, non-ionic…	30A170912	1
apomix	Anionic hydrophilic cream SR…	30A190917	2
apomix	Anionic hydrophilic cream SR…	30A250815	2
apomix	Hydrophilic cream, non-ionic…	30B261112	1
apomix	Anionic hydrophilic cream SR…	31A021018	22
apomix	Anionic hydrophilic cream SR…	31A030713	2
apomix	Hydrophilic cream, non-ionic…	31A041017	2
apomix	Anionic hydrophilic cream SR…	31A080915	1
apomix	Anionic hydrophilic cream SR…	31A14014	1
apomix	Hydrophilic cream, non-ionic…	31A170912	1
apomix	Anionic hydrophilic cream SR…	31A230914	3
apomix	Hydrophilic cream, non-ionic…	31A280818	1
apomix	Skin care ointment W/L SR (w…	31A300920	3
apomix	Skin care ointment W/L SR (w…	31B130917	1
apomix	Hydrophilic cream, non-ionic…	32a010916	1
apomix	Hydrophilic cream, non-ionic…	32A010916	1
apomix	Anionic hydrophilic cream SR…	32A021018	3
apomix	Hydrophilic cream, non-ionic…	32A090713	3
apomix	Anionic hydrophilic cream SR…	32a101017	1
apomix	Anionic hydrophilic cream SR…	32A101017	2
apomix	Anionic hydrophilic cream SR…	32A150915	1
apomix	Anionic hydrophilic cream SR…	32A160713	1
apomix	Hydrophilic cream, non-ionic…	32A210916	1
apomix	Hydrophilic cream, non-ionic…	32A220915	2
apomix	Hydrophilic cream, non-ionic…	32A250414	4
apomix	Hydrophilic cream, non-ionic…	32A280818	4
apomix	Skin care ointment W/L SR (w…	32B231020	1
apomix	Anionic hydrophilic cream SR…	33A051118	4
apomix	Hydrophilic cream, non-ionic…	33A051211	1
apomix	Anionic hydrophilic cream SR…	33a060916	1
apomix	Anionic hydrophilic cream SR…	33A060916	4
apomix	Hydrophilic cream, non-ionic…	33A091120	2
apomix	Hydrophilic cream, non-ionic…	33A110918	6
apomix	Hydrophilic cream, non-ionic…	33A121119	8
apomix	Anionic hydrophilic cream SR…	33A141014	1
apomix	Anionic hydrophilic cream SR…	33A171017	7
apomix	Anionic hydrophilic cream SR…	33A220713	2
apomix	Anionic hydrophilic cream SR…	33A230915	1
apomix	Hydrophilic cream, non-ionic…	33A240713	3
apomix	Anionic hydrophilic cream SR…	33A291111	1
apomix	Hydrophilic cream, non-ionic…	33B110918	4
apomix	Hydrophilic cream, non-ionic…	33B271212	1
apomix	Anionic hydrophilic cream SR…	34A060813	1
apomix	Anionic hydrophilic cream SR…	34a061015	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Anionic hydrophilic cream SR...	34A061015	1
apomix	Hydrophilic cream, non-ionic...	34A101120	2
apomix	Anionic hydrophilic cream SR...	34A130916	2
apomix	Anionic hydrophilic cream SR...	34A131015	2
apomix	Anionic hydrophilic cream SR...	34A191118	9
apomix	Anionic hydrophilic cream SR...	34A201117	2
apomix	Hydrophilic cream, non-ionic...	34A210916	1
apomix	Anionic hydrophilic cream SR...	35A031114	2
apomix	Skin care ointment W/L SR (w...	35A040919	2
apomix	Anionic hydrophilic cream SR...	35A041218	2
apomix	Hydrophilic cream, non-ionic...	35A070813	1
apomix	Anionic hydrophilic cream SR...	35A081112	1
apomix	Hydrophilic cream, non-ionic...	35A130514	1
apomix	Anionic hydrophilic cream SR...	35A140916	2
apomix	Anionic hydrophilic cream SR...	35A211117	5
apomix	Hydrophilic cream, non-ionic...	35A251016	5
apomix	Hydrophilic cream, non-ionic...	35a270917	1
apomix	Hydrophilic cream, non-ionic...	35B101218	1
apomix	Hydrophilic cream, non-ionic...	35B151220	1
apomix	Anionic hydrophilic cream SR...	36A031115	2
apomix	Anionic hydrophilic cream SR...	36A041218	1
apomix	Anionic hydrophilic cream SR...	36a051217	1
apomix	Anionic hydrophilic cream SR...	36A051217	7
apomix	Hydrophilic cream, non-ionic...	36A140514	3
apomix	Hydrophilic cream, non-ionic...	36A140514a	1
apomix	Anionic hydrophilic cream SR...	36A140616	1
apomix	Anionic hydrophilic cream SR...	36A140916	2
apomix	Skin care ointment W/L SR (w...	36a170919	1
apomix	Skin care ointment W/L SR (w...	36A170919	2
apomix	Hydrophilic cream, non-ionic...	36A261016	5
apomix	Skin care ointment W/L SR (w...	36B011117	1
apomix	Hydrophilic cream, non-ionic...	36B270513	1
apomix	Anionic hydrophilic cream SR...	37A061217	3
apomix	Hydrophilic cream, non-ionic...	37A071216	2
apomix	Anionic hydrophilic cream SR...	37A171115	2
apomix	Anionic hydrophilic cream SR...	37A17115	1
apomix	Hydrophilic cream, non-ionic...	37a241017	1
apomix	Hydrophilic cream, non-ionic...	37A241017	1
apomix	Anionic hydrophilic cream SR...	37a270916	2
apomix	Skin care ointment W/L SR (w...	37B081220	1
apomix	Hydrophilic cream, non-ionic...	38A050614	2
apomix	Hydrophilic cream, non-ionic...	38A051112	1
apomix	Anionic hydrophilic cream SR...	38A111016	3
apomix	Anionic hydrophilic cream SR...	38A171115	2
apomix	Hydrophilic cream, non-ionic...	38A241017	1
apomix	Anionic hydrophilic cream SR...	39A011214	2
apomix	Anionic hydrophilic cream SR...	39A081116	1
apomix	Hydrophilic cream, non-ionic...	39A131112	1
apomix	Hydrophilic cream, non-ionic...	39A160614	1
apomix	Anionic hydrophilic cream SR...	39A231115	2
apomix	Hydrophilic cream, non-ionic...	3A030216	2
apomix	Anionic hydrophilic cream DAB	3a090118	1
apomix	Anionic hydrophilic cream SR...	3A090118	4
apomix	Hydrophilic cream, non-ionic...	3A090215	2
apomix	Anionic hydrophilic cream SR...	3A120116	3
apomix	Hydrophilic cream, non-ionic...	3A130212	1
apomix	Anionic hydrophilic cream SR...	3A150113	1
apomix	Skin care ointment W/L SR (w...	3A220118	1
apomix	Hydrophilic cream, non-ionic...	3A240118	4
apomix	Hydrophilic cream, non-ionic...	3A240413	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Anionic hydrophilic cream SR…	3A270120	1
apomix	Anionic hydrophilic cream SR…	3A270121	1
apomix	Anionic hydrophilic cream SR…	3A280114	1
apomix	Anionic hydrophilic cream SR…	3A310117	4
apomix	Hydrophilic cream, non-ionic…	3B010221	3
apomix	Hydrophilic cream, non-ionic…	3B020215	4
apomix	Skin care ointment W/L SR	3B020217	1
apomix	Anionic hydrophlic cream wit…	3B030320	3
apomix	Anionic hydrophlic cream wit…	3B030417	1
apomix	Hydrophilic cream, non-ionic…	3B040220	2
apomix	Hydrophilic cream, non-ionic…	3B140218	1
apomix	Anionic hydrophlic cream wit…	3B160321	1
apomix	Anionic hydrophlic cream wit…	3B170216	3
apomix	Skin care ointment W/L SR	3B180116	1
apomix	Skin care ointment W/L SR (w…	3B230120	2
apomix	Anionic hydrophlic cream wit…	3B240214	1
apomix	Hydrophilic cream, non-ionic…	3B260219	3
apomix	Anionic hydrophlic cream wit…	3B280318	2
apomix	Anionic hydrophilic cream SR…	40A011215	1
apomix	Hydrophilic cream, non-ionic…	40a071217	1
apomix	Skin care ointment W/L SR (w…	40A131118	1
apomix	Anionic hydrophilic cream SR…	40A151116	3
apomix	Hydrophilic cream, non-ionic…	40A160614	2
apomix	Hydrophilic cream, non-ionic…	40A261112	1
apomix	Hydrophilic cream, non-ionic…	40A281013	4
apomix	Anionic hydrophilic cream SR…	41A021013	1
apomix	Anionic hydrophilic cream SR…	41A101214	2
apomix	Hydrophilic cream, non-ionic…	41a141015	2
apomix	Anionic hydrophilic cream SR…	41A151215	1
apomix	Anionic hydrophilic cream SR…	41A151215a	1
apomix	Anionic hydrophilic cream SR…	41A281116	3
apomix	Skin care ointment W/L SR (w…	41A281117	1
apomix	Skin care ointment W/L SR (w…	41B200715	1
apomix	Hydrophilic cream, non-ionic…	42A070714	1
apomix	Anionic hydrophilic cream SR…	42A171214	3
apomix	Hydrophilic cream, non-ionic…	42A191212	1
apomix	Anionic hydrophilic cream SR…	42A291116	4
apomix	Skin care ointment W/L SR (w…	42B201119	1
apomix	Hydrophilic cream, non-ionic…	43a140714	1
apomix	Hydrophilic cream, non-ionic…	43A140714	1
apomix	Anionic hydrophilic cream SR…	44A051113	1
apomix	Anionic hydrophilic cream SR…	4546279	1
apomix	Hydrophilic cream, non-ionic…	47A2801015	1
apomix	Hydrophilic cream, non-ionic…	47A281015	3
apomix	Anionic hydrophilic cream SR…	48A031213	2
apomix	Hydrophilic cream, non-ionic…	48A081014	3
apomix	Hydrophilic cream, non-ionic…	48A181115	2
apomix	Hydrophilic cream, non-ionic…	49A241115	1
apomix	Hydrophilic cream, non-ionic…	4A030119	7
apomix	Anionic hydrophilic cream SR…	4A030214	2
apomix	Anionic hydrophilic cream SR…	4A100321	2
apomix	Anionic hydrophilic cream SR…	4A130217	3
apomix	Anionic hydrophilic cream DAB	4A160118	5
apomix	Skin care ointment W/L SR (w…	4A220118	1
apomix	Hydrophilic cream, non-ionic…	4a230216	1
apomix	Hydrophilic cream, non-ionic…	4A240215	2
apomix	Hydrophilic cream, non-ionic…	4A250118	1
apomix	Hydrophilic cream, non-ionic…	4A250214	3
apomix	Anionic hydrophilic cream SR…	4A270115	1
apomix	Anionic hydrophilic cream SR…	4A280120	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Anionic hydrophilic cream SR…	4A280222	1
apomix	Hydrophilic cream, non-ionic…	4B020321	1
apomix	Anionic hydrophlic cream wit…	4B020517	1
apomix	Hydrophilic cream, non-ionic…	4B070213	1
apomix	Anionic hydrophilic cream DAB	4B110319	7
apomix	Hydrophilic cream, non-ionic…	4B120318	2
apomix	Anionic hydrophlic cream wit…	4B120421	2
apomix	Hydrophilic cream, non-ionic…	4B170216	1
apomix	Hydrophilic cream, non-ionic…	4B190319	2
apomix	Anionic hydrophilic cream DAB	4B19319	1
apomix	Hydrophilic cream, non-ionic…	4B210217	1
apomix	Anionic hydrophlic cream wit…	4B210316	1
apomix	Anionic hydrophlic cream wit…	4B250315	1
apomix	Hydrophilic cream, non-ionic…	4B280222	1
apomix	Hydrophilic cream, non-ionic…	4B290321	1
apomix	Hydrophilic cream, non-ionic…	50A101114	2
apomix	Hydrophilic cream, non-ionic…	50a161215	1
apomix	Hydrophilic cream, non-ionic…	50A161215	1
apomix	Anionic hydrophilic cream SR…	51A171213	1
apomix	Hydrophilic cream, non-ionic…	51A261114	3
apomix	Hydrophilic cream, non-ionic…	52a081214	1
apomix	Hydrophilic cream, non-ionic…	52A081214	1
apomix	Hydrophilic cream, non-ionic…	53A021213	1
apomix	Hydrophilic cream, non-ionic…	53A191113	2
apomix	Hydrophilic cream, non-ionic…	54A021213	2
apomix	Hydrophilic cream, non-ionic…	55A181213	1
apomix	Anionic hydrophilic cream SR…	5A040220	2
apomix	Anionic hydrophilic cream SR…	5A050215	1
apomix	Anionic hydrophilic cream SR…	5A050218	2
apomix	Hydrophilic cream, non-ionic…	5A080316	4
apomix	Anionic hydrophilic cream SR…	5A110219	2
apomix	Anionic hydrophilic cream SR…	5A110321	2
apomix	Anionic hydrophilic cream SR…	5A200116	2
apomix	Anionic hydrophilic cream SR…	5A200212	1
apomix	Anionic hydrophilic cream SR…	5A200217	3
apomix	Hydrophilic cream, non-ionic…	5A290321	1
apomix	Anionic hydrophilic cream SR…	5A300113	1
apomix	Hydrophilic cream, non-ionic…	5B01816	1
apomix	Hydrophilic cream, non-ionic…	5B020419	5
apomix	Anionic hydrophlic cream wit…	5B070414	1
apomix	Anionic hydrophlic cream wit…	5B080419	2
apomix	Hydrophilic cream, non-ionic…	5B150317	3
apomix	Hydrophilic cream, non-ionic…	5B170321	1
apomix	Hydrophilic cream, non-ionic…	5B180220	1
apomix	Hydrophilic cream, non-ionic…	5B190218	3
apomix	Hydrophilic cream, non-ionic…	5B250213	1
apomix	Anionic hydrophlic cream wit…	5B250521	1
apomix	Anionic hydrophlic cream wit…	5B250618	2
apomix	Hydrophilic cream, non-ionic…	5B280318	3
apomix	Anionic hydrophlic cream wit…	5B280420	2
apomix	Hydrophilic cream, non-ionic…	5B290216	1
apomix	Anionic hydrophlic cream wit…	5B310517	2
apomix	Hydrophilic cream, non-ionic…	5B310817	1
apomix	Anionic hydrophilic cream SR…	6050215	1
apomix	Skin care ointment W/L SR (w…	63B230916	1
apomix	Skin care ointment W/L SR	63B231115	1
apomix	Anionic hydrophilic cream SR…	6A020320	3
apomix	Anionic hydrophilic cream SR…	6A050215	2
apomix	Anionic hydrophilic cream SR…	6A100321	1
apomix	Hydrophilic cream, non-ionic…	6A110320	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrophilic cream, non-ionic…	6a130318	1
apomix	Anionic hydrophilic cream SR…	6A260116	1
apomix	Anionic hydrophilic cream SR…	6A26019	1
apomix	Anionic hydrophilic cream SR…	6A260219	4
apomix	Anionic hydrophilic cream SR…	6A280217	3
apomix	Hydrophilic cream, non-ionic…	6B020315	2
apomix	Anionic hydrophlic cream wit…	6B040515	1
apomix	Anionic hydrophlic cream wit…	6B04515	1
apomix	Anionic hydrophlic cream wit…	6B060514	1
apomix	Hydrophilic cream, non-ionic…	6B100314	1
apomix	Hydrophilic cream, non-ionic…	6B110313	2
apomix	Hydrophilic cream, non-ionic…	6B150419	5
apomix	Hydrophilic cream, non-ionic…	6B180320	3
apomix	Anionic hydrophlic cream wit…	6B190617	1
apomix	Anionic hydrophlic cream wit…	6B220513	1
apomix	Hydrophilic cream, non-ionic…	6B230418	1
apomix	Hydrophilic cream, non-ionic…	6B290321	1
apomix	Anionic hydrophlic cream wit…	6B290519	1
apomix	Anionic hydrophlic cream wit…	6B31071B	1
apomix	Skin care ointment W/L SR (w…	6C250221	1
apomix	Hydrophilic cream, non-ionic…	7A020414	4
apomix	Anionic hydrophilic cream SR…	7A030320	2
apomix	Anionic hydrophilic cream SR…	7a090216	1
apomix	Anionic hydrophilic cream SR…	7A110319	1
apomix	Hydrophilic cream, non-ionic…	7A110320	5
apomix	Hydrophilic cream, non-ionic…	7A140217	4
apomix	Hydrophilic cream, non-ionic…	7-A140217	1
apomix	Anionic hydrophilic cream SR…	7A140317	1
apomix	Anionic hydrophilic cream SR…	7A200318	10
apomix	Anionic hydrophilic cream SR…	7a280218	1
apomix	Anionic hydrophilic cream SR…	7A280218	5
apomix	Hydrophilic cream, non-ionic…	7a310316	1
apomix	Hydrophilic cream, non-ionic…	7A310316	3
apomix	Hydrophilic cream, non-ionic…	7B010420	1
apomix	Anionic hydrophlic cream wit…	7B010817	2
apomix	Hydrophilic cream, non-ionic…	7B020413	2
apomix	Anionic hydrophlic cream wit…	7B020821	2
apomix	Hydrophilic cream, non-ionic…	7B030417	1
apomix	Anionic hydrophlic cream wit…	7B040918	2
apomix	Hydrophilic cream, non-ionic…	7B140518	2
apomix	Hydrophilic cream, non-ionic…	7B150518	1
apomix	Anionic hydrophlic cream wit…	7B160719	1
apomix	Anionic hydrophlic cream wit…	7B180613	1
apomix	Anionic hydrophlic cream wit…	7B210616	3
apomix	Anionic hydrophlic cream wit…	7B210720	4
apomix	Hydrophilic cream, non-ionic…	8/14	1
apomix	Anionic hydrophlic cream wit…	88121118	1
apomix	Skin care ointment W/L SR (w…	88190220	1
apomix	Anionic hydrophilic cream SR…	8A030320	6
apomix	Anionic hydrophilic cream SR…	8A090216	1
apomix	Anionic hydrophilic cream SR…	8A120319	4
apomix	Hydrophilic cream, non-ionic…	8a120416	1
apomix	Hydrophilic cream, non-ionic…	8A120416	3
apomix	Hydrophilic cream, non-ionic…	8A120421	1
apomix	Anionic hydrophilic cream SR…	8A140317	1
apomix	Skin care ointment W/L SR (w…	8A190220	1
apomix	Anionic hydrophilic cream SR…	8a200318	1
apomix	Anionic hydrophilic cream SR…	8A200318	2
apomix	Anionic hydrophilic cream SR…	8A200421	1
apomix	Hydrophilic cream, non-ionic…	8A230418	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Anionic hydrophilic cream SR…	8A260314	1
apomix	Anionic hydrophilic cream SR…	8A270213	2
apomix	Skin care ointment W/L SR (w…	8A280218	1
apomix	Anionic hydrophilic cream SR…	8A290311	1
apomix	Hydrophilic cream, non-ionic…	8B030417	1
apomix	Hydrophilic cream, non-ionic…	8B060416	1
apomix	Hydrophilic cream, non-ionic…	8B070414	2
apomix	Anionic hydrophlic cream wit…	8B100614	1
apomix	Anionic hydrophlic cream wit…	8B121118	5
apomix	Hydrophilic cream, non-ionic…	8B150413	1
apomix	Anionic hydrophlic cream wit…	8B170615	1
apomix	Anionic hydrophlic cream wit…	8b200819	1
apomix	Anionic hydrophlic cream wit…	8B200819	2
apomix	Anionic hydrophlic cream wit…	8B210716	2
apomix	Hydrophilic cream, non-ionic…	8B290519	4
apomix	Skin care ointment W/L SR (w…	9A0103318	1
apomix	Hydrophilic cream, non-ionic…	9A050319	3
apomix	Hydrophilic cream, non-ionic…	9A060213	1
apomix	Anionic hydrophilic cream SR…	9A100521	2
apomix	Anionic hydrophilic cream SR…	9A160320	9
apomix	Anionic hydrophilic cream SR…	9A190319	4
apomix	Hydrophilic cream, non-ionic…	9a210317	1
apomix	Hydrophilic cream, non-ionic…	9A210317	7
apomix	Anionic hydrophilic cream SR…	9A210318	2
apomix	Skin care ointment W/L SR	9A260213	1
apomix	Hydrophilic cream, non-ionic…	9A300320	3
apomix	Hydrophilic cream, non-ionic…	9A30032004546291	1
apomix	Hydrophilic cream, non-ionic…	9B010719	4
apomix	Hydrophilic cream, non-ionic…	9B020516	4
apomix	Hydrophilic cream, non-ionic…	9B020517	2
apomix	Hydrophilic cream, non-ionic…	9B050521	1
apomix	Anionic hydrophlic cream wit…	9B101218	1
apomix	Anionic hydrophlic cream wit…	9B10719	1
apomix	Hydrophilic cream, non-ionic…	9B110520	1
apomix	Anionic hydrophlic cream wit…	9B130715	1
apomix	Anionic hydrophlic cream wit…	9B141019	4
apomix	Anionic hydrophlic cream wit…	9B141020	3
apomix	Anionic hydrophlic cream wit…	9B181017	3
apomix	Hydrophilic cream, non-ionic…	9B190522	1
apomix	Hydrophilic cream, non-ionic…	9B200415	1
apomix	Anionic hydrophlic cream wit…	9B220714	1
apomix	Hydrophilic cream, non-ionic…	9B250521	1
apomix	Hydrophilic cream, non-ionic…	9B300413	3
apomix	Hydrophilic cream, non-ionic…	9C050521	1
Aponix	Anionic hydrophilic cream SR…	3A310117	1
Aponorm/ Wepa	Base cream, diluted	21004062002	1
August Wolff GmbH	Wolff® base half-fat cream	711250	1
August Wolff GmbH	Wolff® base half-fat cream	905120	1
Bambustus/Noweda	Anionic hydrophilic cream DAB	297662	5
Bären Apotheke	Anionic hydrophilic cream DAB	17045301	1
Beiersdorf/Kehr	Hydrophilic cream, non-ionic…	294407	1
Beiersdorf/Sanacorp	Anionic hydrophilic cream DAB	15319501	1
Berkel AHK	Base cream, hydrophobic DAC	14145401	1
Beyavers	Anionic hydrophilic cream SR…	20A200618	1
Bionorica ethics/Phoenix	Anionic hydrophilic cream DAB	18010702	1
Bionorica/ Phönix Lab	Anionic hydrophilic cream wi…	132615	1
Bionorica/Kehr	Anionic hydrophilic cream SR…	18006628	1
Bionorica/Kehr	Hydrophilic cream, non-ionic…	19000218	1
Bobastus/ Phönix 21.03.19	Anionic hydrophilic cream DAB	18004838	1
Bobastus-Werke AG/Fiebig	Anionic hydrophilic cream DAB	19006465	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bobbastus/Noweda	Hydrophilic cream, non-ionic…	279660	1
Bobmastus	Base cream, hydrophobic DAC	21002264	2
Bobmastus	Anionic hydrophilic cream DAB	291657	1
bom	Anionic hydrophilic cream DAB	20001211	1
Bomastus/AHD	Hydrophilic cream, non-ionic…	21004051	1
Bomastus/Kehr	Hydrophilic cream, non-ionic…	20002898	1
Bomastus	Hydrophilic cream, non-ionic…	19005185	1
bomastus	Anionic hydrophilic cream SR…	20001775	1
Bomastus	Anionic hydrophilic cream SR…	288308	1
bomb/Alkun	Hydrophilic cream, non-ionic…	310520	1
bomb/alliance	Hydrophilic cream, non-ionic…	307525	1
Bomb/Noweda	Anionic hydrophilic cream DAB	18000250	1
Bomb/Noweda	Anionic hydrophilic cream DAB	308399	1
Bomb/Phoenix	Hydrophilic cream, non-ionic…	18005882	2
bomb/phönix	Anionic hydrophilic cream SR…	18001482	2
bomb/phönix	Hydrophilic cream, non-ionic…	302691	1
Bomb/Sanacorp	Anionic hydrophilic cream DAB	18006014	1
Bomb/Sanacorp	Anionic hydrophilic cream DAB	19000617	1
Bomb/Sanacorp	Anionic hydrophilic cream DAB	308405	1
Bomba/AHD	Anionic hydrophilic cream DAB	280410	1
Bomba/Phönix	Anionic hydrophilic cream DAB	308408	1
Bomba	Anionic hydrophilic cream DAB	283478	1
Bombast./Phönix	Hydrophilic cream, non-ionic…	18005880	1
Bombast/Nowed	Anionic hydrophilic cream SR…	288308	1
Bombast/Phoenix	Anionic hydrophilic cream SR…	293104	1
Bombastis/Gehe/18.10.19	Hydrophilic cream, non-ionic…	19003825	1
Bombastu/Alliance Healt…	Hydrophilic cream, non-ionic…	309908	1
Bombastu/Noweda	Hydrophilic cream, non-ionic…	18001334	1
Bombastu/Noweda	Hydrophilic cream, non-ionic…	18004212	2
Bombastus	Base cream, hydrophobic DAC		6
Bombastus	Anionic hydrophilic cream SR…	10002224	1
Bombastus	Hydrophilic cream, non-ionic…	1006523	1
Bombastus	Anionic hydrophilic cream SR…	1017Q-03327	1
Bombastus	Hydrophilic cream, non-ionic…	105019	1
Bombastus	Hydrophilic cream, non-ionic…	118005877	1
Bombastus	Hydrophilic cream, non-ionic…	119400	1
Bombastus	Anionic hydrophilic cream DAB	120296	1
Bombastus	Anionic hydrophilic cream SR…	12121201	1
Bombastus	Base cream, hydrophobic DAC	12229302	1
Bombastus	Anionic hydrophilic cream SR…	123test	1
Bombastus	Hydrophilic cream, non-ionic…	12B130626	1
Bombastus	Anionic hydrophilic cream wi…	14030701	1
Bombastus	Hydrophilic cream, non-ionic…	140568	1
Bombastus	Anionic hydrophilic cream DAB	14286201	1
Bombastus	Base cream, hydrophobic DAC	143093	1
Bombastus	Anionic hydrophilic cream DAB	14342501	2
Bombastus	Anionic hydrophilic cream SR…	150820UEA	1
Bombastus	Anionic hydrophilic cream SR…	15121201	1
Bombastus	Base cream, hydrophobic DAC	15221301	1
Bombastus	Base cream, hydrophobic DAC	160136	1
Bombastus	Base cream, hydrophobic DAC	160814	1
Bombastus	Hydrophilic cream, non-ionic…	160824UEASR	1
Bombastus	Anionic hydrophilic cream SR…	1616Q-03327	1
Bombastus	Base cream, hydrophobic DAC	162168	1
Bombastus	Anionic hydrophilic cream DAB	16250001	1
Bombastus	Base cream, hydrophobic DAC	163237	1
Bombastus	Hydrophilic cream, non-ionic…	170000744	1
Bombastus	Anionic hydrophilic cream SR…	17000160	2
Bombastus	Anionic hydrophilic cream SR…	17000162	8
Bombastus	Anionic hydrophilic cream SR…	17000163	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	17000164	7
Bombastus	Anionic hydrophilic cream SR...	17000165	5
Bombastus	Anionic hydrophilic cream DAB	17000166	12
Bombastus	Hydrophilic cream, non-ionic...	17000737	1
Bombastus	Hydrophilic cream, non-ionic...	17000738	1
Bombastus	Hydrophilic cream, non-ionic...	17000739	4
Bombastus	Hydrophilic cream, non-ionic...	17000740	1
Bombastus	Hydrophilic cream, non-ionic...	17000741	6
Bombastus	Hydrophilic cream, non-ionic...	17000742	9
Bombastus	Hydrophilic cream, non-ionic...	17000743	14
Bombastus	Hydrophilic cream, non-ionic...	17000744	6
Bombastus	Hydrophilic cream, non-ionic...	17000745	13
Bombastus	Hydrophilic cream, non-ionic...	17000746	6
Bombastus	Hydrophilic cream, non-ionic...	17000747	7
Bombastus	Hydrophilic cream, non-ionic...	17000748	2
Bombastus	Hydrophilic cream, non-ionic...	17000749	15
Bombastus	Hydrophilic cream, non-ionic...	17000750	25
Bombastus	Base cream, hydrophobic DAC	170009	1
Bombastus	Base cream, hydrophobic DAC	17001093	1
Bombastus	Base cream, hydrophobic DAC	17001094	1
Bombastus	Base cream, hydrophobic DAC	17001095	2
Bombastus	Base cream, hydrophobic DAC	17001096	3
Bombastus	Anionic hydrophilic cream DAB	17001300	2
Bombastus	Anionic hydrophilic cream DAB	17001302	9
Bombastus	Anionic hydrophilic cream DAB	17001303	2
Bombastus	Anionic hydrophilic cream DAB	17001304	1
Bombastus	Anionic hydrophilic cream DAB	17001305	6
Bombastus	Anionic hydrophilic cream DAB	17001306	2
Bombastus	Anionic hydrophilic cream DAB	17001307	14
Bombastus	Anionic hydrophilic cream DAB	17001308	3
Bombastus	Anionic hydrophilic cream DAB	17001309	1
Bombastus	Anionic hydrophilic cream DAB	17001310	6
Bombastus	Anionic hydrophilic cream DAB	17001311	2
Bombastus	Anionic hydrophilic cream DAB	17001312	2
Bombastus	Anionic hydrophilic cream DAB	17001313	4
Bombastus	Anionic hydrophilic cream DAB	17001315	3
Bombastus	Anionic hydrophilic cream DAB	17001316	10
Bombastus	Anionic hydrophilic cream SR...	17001695	1
Bombastus	Anionic hydrophilic cream SR...	17001696	3
Bombastus	Anionic hydrophilic cream SR...	17001697	2
Bombastus	Anionic hydrophilic cream SR...	17001698	1
Bombastus	Anionic hydrophilic cream SR...	17001699	6
Bombastus	Anionic hydrophilic cream SR...	17001700	4
Bombastus	Anionic hydrophilic cream SR...	17001701	5
Bombastus	Anionic hydrophilic cream SR...	17001702	4
Bombastus	Anionic hydrophilic cream SR...	17001703	4
Bombastus	Anionic hydrophilic cream SR...	17001704	5
Bombastus	Anionic hydrophilic cream SR...	17001705	4
Bombastus	Anionic hydrophilic cream SR...	17001706	2
Bombastus	Anionic hydrophilic cream SR...	17001707	8
Bombastus	Anionic hydrophilic cream SR...	17001708	6
Bombastus	Hydrophilic cream, non-ionic...	17002156	1
Bombastus	Hydrophilic cream, non-ionic...	17002158	1
Bombastus	Hydrophilic cream, non-ionic...	17002159	7
Bombastus	Hydrophilic cream, non-ionic...	17002160	6
Bombastus	Anionic hydrophilic cream SR...	17006166	1
Bombastus	Hydrophilic cream, non-ionic...	1700750	1
Bombastus	Anionic hydrophilic cream DAB	17007908	1
Bombastus	Anionic hydrophilic cream SR...	170103CAH/303735	1
Bombastus	Anionic hydrophilic cream wi...	17030101	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	170313CAH/303736	1
Bombastus	Anionic hydrophilic cream DAB	17045101	1
Bombastus	Anionic hydrophilic cream DAB	17088901	1
Bombastus	Anionic hydrophilic cream SR...	17101502	1
Bombastus	Base cream, hydrophobic DAC	171126	2
Bombastus	Base cream, hydrophobic DAC	171128	1
Bombastus	Base cream, hydrophobic DAC	171815	1
Bombastus	Anionic hydrophilic cream wi...	17335501	1
Bombastus	Anionic hydrophilic cream DAB	180000245	1
Bombastus	Anionic hydrophilic cream DAB	18000243	1
Bombastus	Anionic hydrophilic cream DAB	18000244	1
Bombastus	Anionic hydrophilic cream DAB	18000245	5
Bombastus	Anionic hydrophilic cream DAB	18000246	3
Bombastus	Anionic hydrophilic cream DAB	18000248	6
Bombastus	Anionic hydrophilic cream DAB	18000249	4
Bombastus	Anionic hydrophilic cream DAB	18000250	2
Bombastus	Anionic hydrophilic cream DAB	18000251	2
Bombastus	Anionic hydrophilic cream DAB	18000252	9
Bombastus	Anionic hydrophilic cream DAB	18000253	3
Bombastus	Anionic hydrophilic cream DAB	18000254	4
Bombastus	Anionic hydrophilic cream DAB	18000255	9
Bombastus	Anionic hydrophilic cream DAB	18000256	3
Bombastus	Anionic hydrophilic cream DAB	18000257	18
Bombastus	Anionic hydrophilic cream DAB	180004835	2
Bombastus	Anionic hydrophilic cream DAB	180006017	1
Bombastus	Hydrophilic cream, non-ionic...	18001324	1
Bombastus	Hydrophilic cream, non-ionic...	18001326	1
Bombastus	Hydrophilic cream, non-ionic...	18001327	5
Bombastus	Hydrophilic cream, non-ionic...	18001328	10
Bombastus	Hydrophilic cream, non-ionic...	18001329	6
Bombastus	Hydrophilic cream, non-ionic...	18001330	6
Bombastus	Hydrophilic cream, non-ionic...	18001331	9
Bombastus	Hydrophilic cream, non-ionic...	18001332	11
Bombastus	Hydrophilic cream, non-ionic...	18001333	5
Bombastus	Hydrophilic cream, non-ionic...	18001334	23
Bombastus	Anionic hydrophilic cream SR...	18001470	1
Bombastus	Anionic hydrophilic cream SR...	18001471	2
Bombastus	Anionic hydrophilic cream SR...	18001472	4
Bombastus	Anionic hydrophilic cream SR...	18001473	2
Bombastus	Anionic hydrophilic cream SR...	18001474	12
Bombastus	Anionic hydrophilic cream SR...	18001475	5
Bombastus	Anionic hydrophilic cream SR...	18001476	9
Bombastus	Anionic hydrophilic cream SR...	18001477	3
Bombastus	Anionic hydrophilic cream DAB	18001478	5
Bombastus	Anionic hydrophilic cream SR...	180014783	1
Bombastus	Anionic hydrophilic cream SR...	18001479	5
Bombastus	Anionic hydrophilic cream SR...	18001480	2
Bombastus	Anionic hydrophilic cream SR...	18001481	8
Bombastus	Anionic hydrophilic cream SR...	18001482	15
Bombastus	Anionic hydrophilic cream SR...	18001483	10
Bombastus	Anionic hydrophilic cream SR...	18001484	1
Bombastus	Anionic hydrophilic cream DAB	18001544	3
Bombastus	Anionic hydrophilic cream DAB	18001546	1
Bombastus	Anionic hydrophilic cream DAB	18001547	1
Bombastus	Anionic hydrophilic cream DAB	18001548	4
Bombastus	Anionic hydrophilic cream DAB	18001549	5
Bombastus	Anionic hydrophilic cream DAB	18001550	4
Bombastus	Anionic hydrophilic cream DAB	18001551	8
Bombastus	Anionic hydrophilic cream DAB	18001552	5
Bombastus	Anionic hydrophilic cream DAB	18001553	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	18001554	10
Bombastus	Anionic hydrophilic cream DAB	18001555	8
Bombastus	Anionic hydrophilic cream DAB	18001556	3
Bombastus	Anionic hydrophilic cream DAB	18001557	8
Bombastus	Anionic hydrophilic cream DAB	18001558	6
Bombastus	Anionic hydrophilic cream DAB	18001559	3
Bombastus	Anionic hydrophilic cream DAB	18001560	5
Bombastus	Anionic hydrophilic cream DAB	18001561	5
Bombastus	Anionic hydrophilic cream DAB	18001562	12
Bombastus	Anionic hydrophilic cream SR...	18001681	1
Bombastus	Base cream, hydrophobic DAC	18001992	2
Bombastus	Base cream, hydrophobic DAC	18001993	2
Bombastus	Base cream, hydrophobic DAC	18001994	3
Bombastus	Base cream, hydrophobic DAC	18001995	2
Bombastus	Base cream, hydrophobic DAC	18001997	6
Bombastus	Base cream, hydrophobic DAC	18001998	4
Bombastus	Base cream, hydrophobic DAC	18001999	5
Bombastus	Base cream, hydrophobic DAC	18002000	12
Bombastus	Base cream, hydrophobic DAC	18002001	10
Bombastus	Base cream, hydrophobic DAC	18002002	2
Bombastus	Hydrophilic cream, non-ionic...	18002057	1
Bombastus	Hydrophilic cream, non-ionic...	18002059	7
Bombastus	Hydrophilic cream, non-ionic...	18002060	6
Bombastus	Hydrophilic cream, non-ionic...	18002061	11
Bombastus	Hydrophilic cream, non-ionic...	18002062	5
Bombastus	Hydrophilic cream, non-ionic...	18002063	22
Bombastus	Hydrophilic cream, non-ionic...	18002064	37
Bombastus	Anionic hydrophilic cream SR...	18002222	1
Bombastus	Anionic hydrophilic cream SR...	18002223	2
Bombastus	Anionic hydrophilic cream SR...	18002224	4
Bombastus	Anionic hydrophilic cream SR...	18002225	4
Bombastus	Anionic hydrophilic cream SR...	18002226	16
Bombastus	Anionic hydrophilic cream SR...	18002227	11
Bombastus	Anionic hydrophilic cream SR...	18002255	1
Bombastus	Anionic hydrophilic cream SR...	1800226	2
Bombastus	Anionic hydrophilic cream DAB	18002352	1
Bombastus	Anionic hydrophilic cream DAB	18002354	1
Bombastus	Anionic hydrophilic cream DAB	18002355	1
Bombastus	Anionic hydrophilic cream DAB	18002356	8
Bombastus	Anionic hydrophilic cream DAB	18002357	2
Bombastus	Anionic hydrophilic cream DAB	18002358	1
Bombastus	Anionic hydrophilic cream DAB	18002359	6
Bombastus	Anionic hydrophilic cream DAB	18002360	4
Bombastus	Anionic hydrophilic cream DAB	18002361	13
Bombastus	Anionic hydrophilic cream DAB	18002362	1
Bombastus	Anionic hydrophilic cream DAB	18002363	5
Bombastus	Anionic hydrophilic cream DAB	18002364	15
Bombastus	Anionic hydrophilic cream DAB	1800250	1
Bombastus	Anionic hydrophilic cream DAB	1800256	2
Bombastus	Base cream, hydrophobic DAC	18002824	3
Bombastus	Base cream, hydrophobic DAC	18002825	1
Bombastus	Base cream, hydrophobic DAC	18002826	5
Bombastus	Base cream, hydrophobic DAC	18002827	8
Bombastus	Base cream, hydrophobic DAC	18002828	4
Bombastus	Base cream, hydrophobic DAC	18002829	4
Bombastus	Base cream, hydrophobic DAC	18002830	14
Bombastus	Base cream, hydrophobic DAC	18002831	6
Bombastus	Hydrophilic cream, non-ionic...	18003131	1
Bombastus	Anionic hydrophilic cream DAB	18003576	3
Bombastus	Anionic hydrophilic cream DAB	18003578	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	18003580	11
Bombastus	Anionic hydrophilic cream DAB	18003581	6
Bombastus	Anionic hydrophilic cream DAB	18003582	5
Bombastus	Anionic hydrophilic cream DAB	18003583	4
Bombastus	Anionic hydrophilic cream DAB	18003584	6
Bombastus	Anionic hydrophilic cream DAB	18003585	9
Bombastus	Anionic hydrophilic cream DAB	18003586	2
Bombastus	Anionic hydrophilic cream DAB	18003587	3
Bombastus	Anionic hydrophilic cream DAB	18003588	13
Bombastus	Anionic hydrophilic cream DAB	18003592	1
Bombastus	Anionic hydrophilic cream SR...	18003779	2
Bombastus	Anionic hydrophilic cream SR...	18003780	2
Bombastus	Anionic hydrophilic cream SR...	18003781	8
Bombastus	Anionic hydrophilic cream SR...	18003782	1
Bombastus	Anionic hydrophilic cream SR...	18003783	6
Bombastus	Anionic hydrophilic cream SR...	18003784	13
Bombastus	Anionic hydrophilic cream SR...	18003785	8
Bombastus	Anionic hydrophilic cream SR...	18003786	5
Bombastus	Anionic hydrophilic cream DAB	18003787	8
Bombastus	Anionic hydrophilic cream SR...	18003788	20
Bombastus	Hydrophilic cream, non-ionic...	18004203	2
Bombastus	Hydrophilic cream, non-ionic...	18004204	2
Bombastus	Hydrophilic cream, non-ionic...	18004206	3
Bombastus	Hydrophilic cream, non-ionic...	18004207	6
Bombastus	Hydrophilic cream, non-ionic...	18004208	10
Bombastus	Hydrophilic cream, non-ionic...	18004209	9
Bombastus	Hydrophilic cream, non-ionic...	18004210	8
Bombastus	Hydrophilic cream, non-ionic...	18004211	7
Bombastus	Hydrophilic cream, non-ionic...	18004212	13
Bombastus	Hydrophilic cream, non-ionic...	18004523	1
Bombastus	Anionic hydrophilic cream DAB	18004831	4
Bombastus	Anionic hydrophilic cream DAB	18004835	10
Bombastus	Anionic hydrophilic cream DAB	18004836	8
Bombastus	Anionic hydrophilic cream DAB	18004837	1
Bombastus	Anionic hydrophilic cream DAB	18004838	2
Bombastus	Anionic hydrophilic cream DAB	18004839	2
Bombastus	Anionic hydrophilic cream DAB	18004840	8
Bombastus	Anionic hydrophilic cream DAB	18004841	7
Bombastus	Anionic hydrophilic cream DAB	18004842	14
Bombastus	Anionic hydrophilic cream SR...	18004877	1
Bombastus	Anionic hydrophilic cream DAB	18005153	3
Bombastus	Anionic hydrophilic cream SR...	18005154	2
Bombastus	Anionic hydrophilic cream SR...	18005156	3
Bombastus	Anionic hydrophilic cream SR...	18005157	7
Bombastus	Anionic hydrophilic cream SR...	18005158	5
Bombastus	Anionic hydrophilic cream SR...	18005159	16
Bombastus	Base cream, hydrophobic DAC	18005484	3
Bombastus	Base cream, hydrophobic DAC	18005485	2
Bombastus	Base cream, hydrophobic DAC	180054852x	1
Bombastus	Base cream, hydrophobic DAC	18005486	1
Bombastus	Base cream, hydrophobic DAC	18005487	13
Bombastus	Base cream, hydrophobic DAC	18005488	7
Bombastus	Hydrophilic cream, non-ionic...	18005874	4
Bombastus	Hydrophilic cream, non-ionic...	18005875	1
Bombastus	Hydrophilic cream, non-ionic...	18005876	5
Bombastus	Hydrophilic cream, non-ionic...	18005877	8
Bombastus	Hydrophilic cream, non-ionic...	18005878	9
Bombastus	Hydrophilic cream, non-ionic...	18005879	7
Bombastus	Hydrophilic cream, non-ionic...	18005880	4
Bombastus	Hydrophilic cream, non-ionic...	18005881	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrophilic cream, non-ionic…	18005882	32
Bombastus	Anionic hydrophilic cream DAB	18006009	3
Bombastus	Anionic hydrophilic cream DAB	18006012	1
Bombastus	Anionic hydrophilic cream DAB	18006013	1
Bombastus	Anionic hydrophilic cream DAB	18006014	3
Bombastus	Anionic hydrophilic cream DAB	180060144x	1
Bombastus	Anionic hydrophilic cream DAB	18006015	4
Bombastus	Anionic hydrophilic cream DAB	18006016	2
Bombastus	Anionic hydrophilic cream DAB	18006017	7
Bombastus	Anionic hydrophilic cream DAB	18006018	6
Bombastus	Anionic hydrophilic cream DAB	18006019	8
Bombastus	Anionic hydrophilic cream DAB	18006020	5
Bombastus	Anionic hydrophilic cream DAB	18006021	6
Bombastus	Anionic hydrophilic cream DAB	18006022	5
Bombastus	Anionic hydrophilic cream DAB	18006023	6
Bombastus	Anionic hydrophilic cream DAB	18006024	4
Bombastus	Anionic hydrophilic cream DAB	18006025	7
Bombastus	Anionic hydrophilic cream DAB	18006026	11
Bombastus	Anionic hydrophilic cream SR…	18006276	4
Bombastus	Anionic hydrophilic cream SR…	18006279	6
Bombastus	Anionic hydrophilic cream SR…	18006280	2
Bombastus	Anionic hydrophilic cream SR…	18006281	4
Bombastus	Anionic hydrophilic cream SR…	18006282	2
Bombastus	Anionic hydrophilic cream SR…	18006283	3
Bombastus	Anionic hydrophilic cream SR…	18006287	24
Bombastus	Anionic hydrophilic cream SR…	18006626	1
Bombastus	Anionic hydrophilic cream SR…	18006628	7
Bombastus	Anionic hydrophilic cream SR…	18006629	5
Bombastus	Anionic hydrophilic cream SR…	18006630	6
Bombastus	Anionic hydrophilic cream SR…	18006631	7
Bombastus	Anionic hydrophilic cream SR…	18006632	16
Bombastus	Base cream, hydrophobic DAC	18051001	1
Bombastus	Base cream, hydrophobic DAC	180515	1
Bombastus	Base cream, hydrophobic DAC	180754	1
Bombastus	Base cream, hydrophobic DAC	180756	1
Bombastus	Anionic hydrophilic cream DAB	18159901	1
Bombastus	Hydrophilic cream, non-ionic…	181721	1
Bombastus	Anionic hydrophilic cream SR…	18218102	2
Bombastus	Hydrophilic cream, non-ionic…	18259501	1
Bombastus	Anionic hydrophilic cream SR…	18A070513	1
Bombastus	Anionic hydrophilic cream SR…	19000006465	1
Bombastus	Anionic hydrophilic cream SR…	190000651	1
Bombastus	Hydrophilic cream, non-ionic…	190002041	1
Bombastus	Hydrophilic cream, non-ionic…	19000217	3
Bombastus	Hydrophilic cream, non-ionic…	19000218	9
Bombastus	Hydrophilic cream, non-ionic…	19000219	12
Bombastus	Hydrophilic cream, non-ionic…	19000220	1
Bombastus	Hydrophilic cream, non-ionic…	19000221	5
Bombastus	Hydrophilic cream, non-ionic…	19000222	24
Bombastus	Base cream, hydrophobic DAC	190002281	1
Bombastus	Anionic hydrophilic cream DAB	19000612	1
Bombastus	Anionic hydrophilic cream DAB	19000614	1
Bombastus	Anionic hydrophilic cream DAB	19000615	1
Bombastus	Anionic hydrophilic cream DAB	19000616	4
Bombastus	Anionic hydrophilic cream DAB	19000617	2
Bombastus	Anionic hydrophilic cream DAB	19000618	2
Bombastus	Anionic hydrophilic cream DAB	19000619	5
Bombastus	Anionic hydrophilic cream DAB	19000620	8
Bombastus	Anionic hydrophilic cream DAB	19000621	5
Bombastus	Anionic hydrophilic cream DAB	19000622	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	19000623	6
Bombastus	Anionic hydrophilic cream DAB	19000624	13
Bombastus	Anionic hydrophilic cream SR...	19000642	1
Bombastus	Anionic hydrophilic cream SR...	19000643	1
Bombastus	Anionic hydrophilic cream SR...	19000644	1
Bombastus	Anionic hydrophilic cream SR...	19000645	1
Bombastus	Anionic hydrophilic cream SR...	19000646	1
Bombastus	Anionic hydrophilic cream SR...	19000647	4
Bombastus	Anionic hydrophilic cream SR...	19000648	6
Bombastus	Anionic hydrophilic cream SR...	19000649	6
Bombastus	Anionic hydrophilic cream SR...	19000650	8
Bombastus	Anionic hydrophilic cream DAB	19000651	20
Bombastus	Anionic hydrophilic cream DAB	19000890	1
Bombastus	Base cream, hydrophobic DAC	19001123	2
Bombastus	Base cream, hydrophobic DAC	19001124	2
Bombastus	Base cream, hydrophobic DAC	19001125	2
Bombastus	Base cream, hydrophobic DAC	19001126	4
Bombastus	Base cream, hydrophobic DAC	19001127	8
Bombastus	Base cream, hydrophobic DAC	19001128	7
Bombastus	Anionic hydrophilic cream SR...	19001550	1
Bombastus	Hydrophilic cream, non-ionic...	19002033	1
Bombastus	Hydrophilic cream, non-ionic...	19002034	1
Bombastus	Hydrophilic cream, non-ionic...	19002035	1
Bombastus	Hydrophilic cream, non-ionic...	19002036	6
Bombastus	Hydrophilic cream, non-ionic...	19002037	8
Bombastus	Hydrophilic cream, non-ionic...	19002038	3
Bombastus	Hydrophilic cream, non-ionic...	19002039	8
Bombastus	Hydrophilic cream, non-ionic...	190020398	1
Bombastus	Hydrophilic cream, non-ionic...	19002040	3
Bombastus	Hydrophilic cream, non-ionic...	19002041	31
Bombastus	Hydrophilic cream, non-ionic...	1900217	1
Bombastus	Hydrophilic cream, non-ionic...	1900218	1
Bombastus	Anionic hydrophilic cream DAB	19002185	2
Bombastus	Anionic hydrophilic cream DAB	19002187	6
Bombastus	Anionic hydrophilic cream DAB	19002188	3
Bombastus	Anionic hydrophilic cream DAB	19002189	1
Bombastus	Anionic hydrophilic cream DAB	19002191	2
Bombastus	Anionic hydrophilic cream DAB	19002192	1
Bombastus	Anionic hydrophilic cream DAB	19002193	3
Bombastus	Anionic hydrophilic cream DAB	19002194	3
Bombastus	Anionic hydrophilic cream DAB	19002195	5
Bombastus	Anionic hydrophilic cream DAB	19002196	8
Bombastus	Anionic hydrophilic cream DAB	19002197	11
Bombastus	Anionic hydrophilic cream DAB	19002198	15
Bombastus	Anionic hydrophilic cream DAB	19002199	4
Bombastus	Anionic hydrophilic cream DAB	19002200	3
Bombastus	Anionic hydrophilic cream DAB	19002201	4
Bombastus	Anionic hydrophilic cream DAB	19002202	2
Bombastus	Anionic hydrophilic cream DAB	19002203	4
Bombastus	Anionic hydrophilic cream DAB	19002204	18
Bombastus	Anionic hydrophilic cream DAB	19002205	21
Bombastus	Anionic hydrophilic cream DAB	19002206	1
Bombastus	Anionic hydrophilic cream DAB	19002207	7
Bombastus	Anionic hydrophilic cream DAB	19002208	5
Bombastus	Hydrophilic cream, non-ionic...	1900222	1
Bombastus	Base cream, hydrophobic DAC	19002275	3
Bombastus	Base cream, hydrophobic DAC	19002276	5
Bombastus	Base cream, hydrophobic DAC	19002277	2
Bombastus	Base cream, hydrophobic DAC	19002278	1
Bombastus	Base cream, hydrophobic DAC	19002279	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream, hydrophobic DAC	19002280	7
Bombastus	Base cream, hydrophobic DAC	19002281	6
Bombastus	Anionic hydrophilic cream SR...	1900252	1
Bombastus	Anionic hydrophilic cream SR...	19002546	1
Bombastus	Anionic hydrophilic cream SR...	19002547	1
Bombastus	Anionic hydrophilic cream SR...	19002548	1
Bombastus	Anionic hydrophilic cream SR...	19002549	2
Bombastus	Anionic hydrophilic cream SR...	19002550	6
Bombastus	Anionic hydrophilic cream SR...	19002551	5
Bombastus	Anionic hydrophilic cream SR...	19002552	9
Bombastus	Anionic hydrophilic cream SR...	19002553	4
Bombastus	Anionic hydrophilic cream SR...	19002554	16
Bombastus	Anionic hydrophilic cream SR...	19003564s	1
Bombastus	Anionic hydrophilic cream SR...	19003565	3
Bombastus	Anionic hydrophilic cream SR...	19003566	2
Bombastus	Anionic hydrophilic cream SR...	19003567	1
Bombastus	Anionic hydrophilic cream SR...	19003568	2
Bombastus	Anionic hydrophilic cream SR...	19003569	5
Bombastus	Anionic hydrophilic cream SR...	19003570	6
Bombastus	Anionic hydrophilic cream DAB	19003571	7
Bombastus	Anionic hydrophilic cream SR...	19003572	5
Bombastus	Anionic hydrophilic cream SR...	19003573	6
Bombastus	Anionic hydrophilic cream SR...	19003575	10
Bombastus	Anionic hydrophilic cream SR...	19003576	25
Bombastus	Anionic hydrophilic cream SR...	19003750	1
Bombastus	Hydrophilic cream, non-ionic...	19003819	1
Bombastus	Hydrophilic cream, non-ionic...	19003820	13
Bombastus	Hydrophilic cream, non-ionic...	19003821	7
Bombastus	Hydrophilic cream, non-ionic...	19003822	5
Bombastus	Hydrophilic cream, non-ionic...	19003823	3
Bombastus	Hydrophilic cream, non-ionic...	19003824	5
Bombastus	Hydrophilic cream, non-ionic...	19003825	28
Bombastus	Anionic hydrophilic cream DAB	1900392	1
Bombastus	Anionic hydrophilic cream DAB	19003966	5
Bombastus	Anionic hydrophilic cream DAB	19003967	2
Bombastus	Anionic hydrophilic cream DAB	19003968	1
Bombastus	Anionic hydrophilic cream DAB	19003969	4
Bombastus	Anionic hydrophilic cream DAB	19003971	4
Bombastus	Anionic hydrophilic cream DAB	19003972	1
Bombastus	Anionic hydrophilic cream DAB	1900397218004831	1
Bombastus	Anionic hydrophilic cream DAB	19003973	7
Bombastus	Anionic hydrophilic cream DAB	19003974	4
Bombastus	Anionic hydrophilic cream DAB	19003975	13
Bombastus	Anionic hydrophilic cream DAB	19003976	6
Bombastus	Anionic hydrophilic cream DAB	19003977	3
Bombastus	Anionic hydrophilic cream DAB	19003978	2
Bombastus	Anionic hydrophilic cream DAB	19003979	2
Bombastus	Anionic hydrophilic cream DAB	19003980	7
Bombastus	Anionic hydrophilic cream DAB	19003981	8
Bombastus	Anionic hydrophilic cream DAB	19003982	2
Bombastus	Anionic hydrophilic cream DAB	19003983	1
Bombastus	Anionic hydrophilic cream DAB	19003984	2
Bombastus	Anionic hydrophilic cream DAB	19003985	2
Bombastus	Anionic hydrophilic cream DAB	19003986	8
Bombastus	Anionic hydrophilic cream DAB	19003987	1
Bombastus	Anionic hydrophilic cream DAB	19003988	16
Bombastus	Anionic hydrophilic cream DAB	19003989	13
Bombastus	Base cream, hydrophobic DAC	19004007	3
Bombastus	Base cream, hydrophobic DAC	19004008	2
Bombastus	Base cream, hydrophobic DAC	19004009	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR…	19004874	12
Bombastus	Anionic hydrophilic cream SR…	19004875	3
Bombastus	Anionic hydrophilic cream SR…	19004876	3
Bombastus	Anionic hydrophilic cream DAB	19004878	3
Bombastus	Anionic hydrophilic cream SR…	19004879	11
Bombastus	Anionic hydrophilic cream SR…	19004881	8
Bombastus	Anionic hydrophilic cream DAB	19005007	2
Bombastus	Anionic hydrophilic cream DAB	19005008	3
Bombastus	Anionic hydrophilic cream DAB	19005009	11
Bombastus	Anionic hydrophilic cream DAB	190050092x	1
Bombastus	Anionic hydrophilic cream DAB	19005010	3
Bombastus	Anionic hydrophilic cream DAB	19005011	8
Bombastus	Anionic hydrophilic cream DAB	19005012	3
Bombastus	Anionic hydrophilic cream DAB	19005013	5
Bombastus	Anionic hydrophilic cream DAB	19005014	3
Bombastus	Anionic hydrophilic cream DAB	19005015	5
Bombastus	Anionic hydrophilic cream DAB	19005016	11
Bombastus	Anionic hydrophilic cream DAB	19005017	9
Bombastus	Hydrophilic cream, non-ionic…	19005183	1
Bombastus	Hydrophilic cream, non-ionic…	19005184	1
Bombastus	Hydrophilic cream, non-ionic…	19005185	1
Bombastus	Hydrophilic cream, non-ionic…	19005186	4
Bombastus	Hydrophilic cream, non-ionic…	19005187	8
Bombastus	Hydrophilic cream, non-ionic…	19005188	5
Bombastus	Hydrophilic cream, non-ionic…	19005189	3
Bombastus	Hydrophilic cream, non-ionic…	19005190	9
Bombastus	Hydrophilic cream, non-ionic…	19005191	1
Bombastus	Hydrophilic cream, non-ionic…	19005192	2
Bombastus	Hydrophilic cream, non-ionic…	19005193	20
Bombastus	Anionic hydrophilic cream SR…	190053576	1
Bombastus	Hydrophilic cream, non-ionic…	19005487	1
Bombastus	Base cream, hydrophobic DAC	19005597	2
Bombastus	Base cream, hydrophobic DAC	19005598	4
Bombastus	Base cream, hydrophobic DAC	19005599	3
Bombastus	Base cream, hydrophobic DAC	19005600	3
Bombastus	Base cream, hydrophobic DAC	19005602	9
Bombastus	Base cream, hydrophobic DAC	19005603	7
Bombastus	Anionic hydrophilic cream SR…	19006459	2
Bombastus	Anionic hydrophilic cream SR…	19006462	1
Bombastus	Anionic hydrophilic cream SR…	19006463	2
Bombastus	Anionic hydrophilic cream SR…	190064631	1
Bombastus	Anionic hydrophilic cream SR…	19006464	3
Bombastus	Anionic hydrophilic cream SR…	19006465	15
Bombastus	Hydrophilic cream, non-ionic…	19006521	1
Bombastus	Hydrophilic cream, non-ionic…	19006522	1
Bombastus	Hydrophilic cream, non-ionic…	19006523	2
Bombastus	Hydrophilic cream, non-ionic…	19006524	7
Bombastus	Hydrophilic cream, non-ionic…	19006525	23
Bombastus	Hydrophilic cream, non-ionic…	1901327	1
Bombastus	Anionic hydrophilic cream DAB	190203988	1
Bombastus	Hydrophilic cream, non-ionic…	190241102	1
Bombastus	Hydrophilic cream, non-ionic…	1903825	1
Bombastus	Hydrophilic cream, non-ionic…	190441104	1
Bombastus	Anionic hydrophilic cream DAB	1905009	1
Bombastus	Anionic hydrophilic cream SR…	190532705	1
Bombastus	Hydrophilic cream, non-ionic…	1906521	1
Bombastus	Anionic hydrophilic cream DAB	191108144652	1
Bombastus	Anionic hydrophilic cream SR…	191152210	1
Bombastus	Anionic hydrophilic cream DAB	191240111	1
Bombastus	Anionic hydrophilic cream DAB	192005015	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	1a070119	1
Bombastus	Anionic hydrophilic cream DAB	200000025	1
Bombastus	Anionic hydrophilic cream DAB	200000031	1
Bombastus	Anionic hydrophilic cream DAB	200000035	1
Bombastus	Anionic hydrophilic cream DAB	20000021	4
Bombastus	Anionic hydrophilic cream DAB	20000022	4
Bombastus	Anionic hydrophilic cream DAB	20000023	2
Bombastus	Anionic hydrophilic cream DAB	20000024	1
Bombastus	Anionic hydrophilic cream DAB	20000025	6
Bombastus	Anionic hydrophilic cream DAB	20000026	6
Bombastus	Anionic hydrophilic cream DAB	20000027	2
Bombastus	Anionic hydrophilic cream DAB	20000028	2
Bombastus	Anionic hydrophilic cream DAB	20000029	4
Bombastus	Anionic hydrophilic cream DAB	20000030	9
Bombastus	Anionic hydrophilic cream DAB	20000031	1
Bombastus	Anionic hydrophilic cream DAB	20000032	2
Bombastus	Anionic hydrophilic cream DAB	20000033	3
Bombastus	Anionic hydrophilic cream DAB	20000034	11
Bombastus	Anionic hydrophilic cream DAB	20000035	15
Bombastus	Base cream, hydrophobic DAC	20000148	4
Bombastus	Base cream, hydrophobic DAC	20000149	2
Bombastus	Base cream, hydrophobic DAC	20000150	4
Bombastus	Base cream, hydrophobic DAC	20000152	4
Bombastus	Base cream, hydrophobic DAC	20000153	10
Bombastus	Anionic hydrophilic cream DAB	200002539	1
Bombastus	Anionic hydrophilic cream DAB	2000033	1
Bombastus	Anionic hydrophilic cream SR...	20000716	2
Bombastus	Anionic hydrophilic cream SR...	20000718	1
Bombastus	Anionic hydrophilic cream DAB	20000719	8
Bombastus	Anionic hydrophilic cream SR...	20000720	9
Bombastus	Anionic hydrophilic cream SR...	20000721	6
Bombastus	Anionic hydrophilic cream SR...	20000722	6
Bombastus	Anionic hydrophilic cream SR...	20000724	15
Bombastus	Base cream, hydrophobic DAC	20000728	4
Bombastus	Hydrophilic cream, non-ionic...	20000806	4
Bombastus	Hydrophilic cream, non-ionic...	20001008	1
Bombastus	Hydrophilic cream, non-ionic...	20001009	5
Bombastus	Hydrophilic cream, non-ionic...	20001010	2
Bombastus	Hydrophilic cream, non-ionic...	20001011	4
Bombastus	Hydrophilic cream, non-ionic...	20001012	8
Bombastus	Hydrophilic cream, non-ionic...	20001013	8
Bombastus	Hydrophilic cream, non-ionic...	20001015	8
Bombastus	Hydrophilic cream, non-ionic...	20001016	12
Bombastus	Anionic hydrophilic cream DAB	20001201	1
Bombastus	Anionic hydrophilic cream DAB	20001202	5
Bombastus	Anionic hydrophilic cream DAB	20001205	2
Bombastus	Anionic hydrophilic cream DAB	20001206	5
Bombastus	Anionic hydrophilic cream DAB	20001207	7
Bombastus	Anionic hydrophilic cream DAB	20001208	4
Bombastus	Anionic hydrophilic cream DAB	20001209	3
Bombastus	Anionic hydrophilic cream DAB	20001210	3
Bombastus	Anionic hydrophilic cream DAB	20001211	1
Bombastus	Anionic hydrophilic cream DAB	20001212	1
Bombastus	Anionic hydrophilic cream DAB	20001213	2
Bombastus	Anionic hydrophilic cream DAB	20001214	6
Bombastus	Anionic hydrophilic cream DAB	20001215	4
Bombastus	Anionic hydrophilic cream DAB	20001216	22
Bombastus	Anionic hydrophilic cream DAB	20001217	13
Bombastus	Base cream, hydrophobic DAC	20001230	1
Bombastus	Anionic hydrophilic cream DAB	20001534	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	20001535	1
Bombastus	Anionic hydrophilic cream DAB	20001536	2
Bombastus	Anionic hydrophilic cream DAB	20001537	3
Bombastus	Anionic hydrophilic cream DAB	20001538	3
Bombastus	Anionic hydrophilic cream DAB	20001539	7
Bombastus	Base cream, hydrophobic DAC	20001675	3
Bombastus	Base cream, hydrophobic DAC	20001676	3
Bombastus	Base cream, hydrophobic DAC	20001677	1
Bombastus	Base cream, hydrophobic DAC	20001678	2
Bombastus	Base cream, hydrophobic DAC	20001680	2
Bombastus	Anionic hydrophilic cream SR...	20001773	1
Bombastus	Anionic hydrophilic cream SR...	20001774	3
Bombastus	Anionic hydrophilic cream SR...	20001775	4
Bombastus	Anionic hydrophilic cream SR...	20001776	1
Bombastus	Anionic hydrophilic cream SR...	20001777	1
Bombastus	Anionic hydrophilic cream SR...	20001778	1
Bombastus	Anionic hydrophilic cream SR...	20001779	10
Bombastus	Hydrophilic cream, non-ionic...	2000190	1
Bombastus	Hydrophilic cream, non-ionic...	20001905	1
Bombastus	Hydrophilic cream, non-ionic...	20001906	5
Bombastus	Hydrophilic cream, non-ionic...	20001907	6
Bombastus	Hydrophilic cream, non-ionic...	20001908	2
Bombastus	Hydrophilic cream, non-ionic...	20001909	13
Bombastus	Hydrophilic cream, non-ionic...	20001910	21
Bombastus	Base cream, hydrophobic DAC	20002007	3
Bombastus	Anionic hydrophilic cream SR...	20002218	1
Bombastus	Anionic hydrophilic cream SR...	20002219	1
Bombastus	Anionic hydrophilic cream SR...	2000222	1
Bombastus	Anionic hydrophilic cream SR...	20002220	1
Bombastus	Anionic hydrophilic cream SR...	20002221	4
Bombastus	Anionic hydrophilic cream SR...	20002222	10
Bombastus	Anionic hydrophilic cream SR...	20002223	7
Bombastus	Anionic hydrophilic cream DAB	20002224	3
Bombastus	Anionic hydrophilic cream SR...	20002225	2
Bombastus	Anionic hydrophilic cream SR...	20002226	13
Bombastus	Anionic hydrophilic cream SR...	20002227	12
Bombastus	Anionic hydrophilic cream SR...	2000224	1
Bombastus	Anionic hydrophilic cream DAB	20002526	1
Bombastus	Anionic hydrophilic cream DAB	20002528	2
Bombastus	Anionic hydrophilic cream DAB	20002529	1
Bombastus	Anionic hydrophilic cream DAB	20002530	1
Bombastus	Anionic hydrophilic cream DAB	20002531	8
Bombastus	Anionic hydrophilic cream DAB	20002532	1
Bombastus	Anionic hydrophilic cream DAB	20002533	1
Bombastus	Anionic hydrophilic cream DAB	20002534	1
Bombastus	Anionic hydrophilic cream DAB	20002535	1
Bombastus	Anionic hydrophilic cream DAB	20002536	1
Bombastus	Anionic hydrophilic cream DAB	20002537	3
Bombastus	Anionic hydrophilic cream DAB	20002538	10
Bombastus	Anionic hydrophilic cream DAB	20002539	2
Bombastus	Anionic hydrophilic cream DAB	2000254	1
Bombastus	Anionic hydrophilic cream DAB	20002540	13
Bombastus	Anionic hydrophilic cream DAB	20002541	9
Bombastus	Hydrophilic cream, non-ionic...	20002890	1
Bombastus	Hydrophilic cream, non-ionic...	20002896	6
Bombastus	Hydrophilic cream, non-ionic...	20002898	2
Bombastus	Hydrophilic cream, non-ionic...	20002899	2
Bombastus	Hydrophilic cream, non-ionic...	20002900	12
Bombastus	Hydrophilic cream, non-ionic...	20002901	13
Bombastus	Base cream, hydrophobic DAC	20003018	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream, hydrophobic DAC	20003019	1
Bombastus	Base cream, hydrophobic DAC	20003022	1
Bombastus	Anionic hydrophilic cream DAB	20003255	3
Bombastus	Anionic hydrophilic cream DAB	20003257	5
Bombastus	Anionic hydrophilic cream DAB	20003258	3
Bombastus	Anionic hydrophilic cream DAB	20003260	12
Bombastus	Anionic hydrophilic cream DAB	20003261	1
Bombastus	Anionic hydrophilic cream DAB	20003262	2
Bombastus	Anionic hydrophilic cream DAB	20003263	1
Bombastus	Anionic hydrophilic cream DAB	20003264	5
Bombastus	Anionic hydrophilic cream DAB	20003265	10
Bombastus	Anionic hydrophilic cream DAB	20003266	11
Bombastus	Hydrophilic cream, non-ionic...	20003424	3
Bombastus	Base cream, hydrophobic DAC	20003555	3
Bombastus	Base cream, hydrophobic DAC	20003557	2
Bombastus	Base cream, hydrophobic DAC	20003558	1
Bombastus	Base cream, hydrophobic DAC	20003559	2
Bombastus	Base cream, hydrophobic DAC	20003560	4
Bombastus	Hydrophilic cream, non-ionic...	20003874	1
Bombastus	Hydrophilic cream, non-ionic...	20003875	1
Bombastus	Hydrophilic cream, non-ionic...	20003876	2
Bombastus	Hydrophilic cream, non-ionic...	20003877	6
Bombastus	Hydrophilic cream, non-ionic...	20003878	2
Bombastus	Hydrophilic cream, non-ionic...	20003879	3
Bombastus	Hydrophilic cream, non-ionic...	20003882	7
Bombastus	Hydrophilic cream, non-ionic...	20003883	14
Bombastus	Hydrophilic cream, non-ionic...	20003884	3
Bombastus	Anionic hydrophilic cream SR...	20003986	1
Bombastus	Anionic hydrophilic cream SR...	20003987	1
Bombastus	Anionic hydrophilic cream SR...	20003989	1
Bombastus	Anionic hydrophilic cream SR...	20003990	6
Bombastus	Anionic hydrophilic cream SR...	20003992	3
Bombastus	Anionic hydrophilic cream SR...	20003993	5
Bombastus	Anionic hydrophilic cream SR...	20003994	5
Bombastus	Anionic hydrophilic cream SR...	20003995	1
Bombastus	Anionic hydrophilic cream SR...	20003996	3
Bombastus	Anionic hydrophilic cream SR...	20003997	17
Bombastus	Anionic hydrophilic cream DAB	20004270	2
Bombastus	Anionic hydrophilic cream DAB	20004271	4
Bombastus	Anionic hydrophilic cream DAB	20004272	1
Bombastus	Hydrophilic cream, non-ionic...	20004273	1
Bombastus	Anionic hydrophilic cream DAB	20004274	3
Bombastus	Anionic hydrophilic cream DAB	20004275	3
Bombastus	Anionic hydrophilic cream DAB	20004277	6
Bombastus	Anionic hydrophilic cream DAB	20004278	3
Bombastus	Anionic hydrophilic cream DAB	20004279	4
Bombastus	Anionic hydrophilic cream DAB	20004280	5
Bombastus	Anionic hydrophilic cream DAB	20004282	7
Bombastus	Base cream, hydrophobic DAC	20004861	2
Bombastus	Base cream, hydrophobic DAC	20004862	3
Bombastus	Base cream, hydrophobic DAC	20004863	7
Bombastus	Hydrophilic cream, non-ionic...	20005128	2
Bombastus	Hydrophilic cream, non-ionic...	20005129	2
Bombastus	Hydrophilic cream, non-ionic...	20005131	2
Bombastus	Hydrophilic cream, non-ionic...	20005132	2
Bombastus	Anionic hydrophilic cream SR...	20005505	6
Bombastus	Anionic hydrophilic cream SR...	20005506	7
Bombastus	Anionic hydrophilic cream SR...	20005507	3
Bombastus	Anionic hydrophilic cream SR...	20005508	15
Bombastus	Anionic hydrophilic cream SR...	2000722	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	2001213	1
Bombastus	Anionic hydrophilic cream DAB	2001217	1
Bombastus	Anionic hydrophilic cream DAB	2001536	1
Bombastus	Anionic hydrophilic cream DAB	2002541	1
Bombastus	Hydrophilic cream, non-ionic...	2003876	1
Bombastus	Hydrophilic cream, non-ionic...	2003878	1
Bombastus	Hydrophilic cream, non-ionic...	2003882	1
Bombastus	Hydrophilic cream, non-ionic...	2003883	1
Bombastus	Anionic hydrophilic cream SR...	2003992	1
Bombastus	Anionic hydrophilic cream DAB	2004279	1
Bombastus	Anionic hydrophilic cream DAB	2004282	1
Bombastus	Anionic hydrophilic cream DAB	20113630	1
Bombastus	Anionic hydrophilic cream SR...	2019U-03327	1
Bombastus	Anionic hydrophilic cream DAB	210000053	1
Bombastus	Anionic hydrophilic cream DAB	210000061	1
Bombastus	Anionic hydrophilic cream DAB	21000042	1
Bombastus	Anionic hydrophilic cream DAB	21000043	1
Bombastus	Anionic hydrophilic cream DAB	21000047	1
Bombastus	Anionic hydrophilic cream DAB	21000048	1
Bombastus	Anionic hydrophilic cream DAB	21000049	3
Bombastus	Anionic hydrophilic cream DAB	21000050	3
Bombastus	Anionic hydrophilic cream DAB	21000051	2
Bombastus	Anionic hydrophilic cream DAB	21000052	4
Bombastus	Anionic hydrophilic cream DAB	21000055	4
Bombastus	Anionic hydrophilic cream DAB	21000056	1
Bombastus	Anionic hydrophilic cream DAB	21000057	1
Bombastus	Anionic hydrophilic cream DAB	21000058	2
Bombastus	Anionic hydrophilic cream DAB	21000059	1
Bombastus	Anionic hydrophilic cream DAB	21000060	8
Bombastus	Anionic hydrophilic cream DAB	21000061	2
Bombastus	Base cream, hydrophobic DAC	21000155	2
Bombastus	Base cream, hydrophobic DAC	21000156	4
Bombastus	Base cream, hydrophobic DAC	21000158	2
Bombastus	Base cream, hydrophobic DAC	21000159	2
Bombastus	Base cream, hydrophobic DAC	21000160	1
Bombastus	Anionic hydrophilic cream SR...	21000517	1
Bombastus	Anionic hydrophilic cream SR...	21000519	1
Bombastus	Hydrophilic cream, non-ionic...	21000521	1
Bombastus	Anionic hydrophilic cream SR...	21000522	2
Bombastus	Anionic hydrophilic cream SR...	21000523	2
Bombastus	Anionic hydrophilic cream SR...	21000524	2
Bombastus	Anionic hydrophilic cream SR...	21000525	6
Bombastus	Hydrophilic cream, non-ionic...	21001442	1
Bombastus	Hydrophilic cream, non-ionic...	21001446	2
Bombastus	Hydrophilic cream, non-ionic...	21001447	4
Bombastus	Hydrophilic cream, non-ionic...	21001448	1
Bombastus	Hydrophilic cream, non-ionic...	21001449	2
Bombastus	Hydrophilic cream, non-ionic...	21001450	4
Bombastus	Anionic hydrophilic cream DAB	21001543	1
Bombastus	Anionic hydrophilic cream DAB	21001544	1
Bombastus	Anionic hydrophilic cream DAB	21001545	1
Bombastus	Anionic hydrophilic cream DAB	21001547	3
Bombastus	Anionic hydrophilic cream DAB	21001548	3
Bombastus	Anionic hydrophilic cream DAB	21001549	1
Bombastus	Anionic hydrophilic cream DAB	21001550	2
Bombastus	Anionic hydrophilic cream DAB	21001552	5
Bombastus	Anionic hydrophilic cream DAB	21001553	2
Bombastus	Anionic hydrophilic cream DAB	21001555	2
Bombastus	Base cream, hydrophobic DAC	21001780	2
Bombastus	Base cream, hydrophobic DAC	21001781	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	21001799	2
Bombastus	Anionic hydrophilic cream SR...	21001800	2
Bombastus	Anionic hydrophilic cream SR...	210018008	1
Bombastus	Anionic hydrophilic cream SR...	21001803	2
Bombastus	Anionic hydrophilic cream SR...	21001805	1
Bombastus	Anionic hydrophilic cream SR...	21001806	3
Bombastus	Anionic hydrophilic cream SR...	21001807	12
Bombastus	Anionic hydrophilic cream DAB	21001808	6
Bombastus	Base cream, hydrophobic DAC	21002262	1
Bombastus	Base cream, hydrophobic DAC	21002265	2
Bombastus	Base cream, hydrophobic DAC	21002266	3
Bombastus	Anionic hydrophilic cream DAB	21002600	1
Bombastus	Anionic hydrophilic cream DAB	21002602	1
Bombastus	Anionic hydrophilic cream DAB	21002605	2
Bombastus	Anionic hydrophilic cream DAB	21002606	1
Bombastus	Anionic hydrophilic cream DAB	21002609	1
Bombastus	Anionic hydrophilic cream DAB	21002610	1
Bombastus	Anionic hydrophilic cream DAB	21002611	3
Bombastus	Hydrophilic cream, non-ionic...	21002703	2
Bombastus	Hydrophilic cream, non-ionic...	21002705	1
Bombastus	Hydrophilic cream, non-ionic...	21002707	1
Bombastus	Hydrophilic cream, non-ionic...	21002710	3
Bombastus	Anionic hydrophilic cream SR...	21003300	1
Bombastus	Anionic hydrophilic cream SR...	21003301	1
Bombastus	Anionic hydrophilic cream SR...	21003302	1
Bombastus	Anionic hydrophilic cream SR...	21003303	6
Bombastus	Anionic hydrophilic cream SR...	21003304	4
Bombastus	Anionic hydrophilic cream SR...	21003306	4
Bombastus	Anionic hydrophilic cream SR...	21003307	5
Bombastus	Base cream, hydrophobic DAC	21003483	2
Bombastus	Base cream, hydrophobic DAC	21003485	1
Bombastus	Anionic hydrophilic cream DAB	21003626	2
Bombastus	Anionic hydrophilic cream DAB	21003628	3
Bombastus	Anionic hydrophilic cream DAB	21003630	2
Bombastus	Anionic hydrophilic cream DAB	21003632	1
Bombastus	Anionic hydrophilic cream DAB	21003633	2
Bombastus	Anionic hydrophilic cream DAB	21003634	1
Bombastus	Hydrophilic cream, non-ionic...	21004047	2
Bombastus	Hydrophilic cream, non-ionic...	21004050	1
Bombastus	Hydrophilic cream, non-ionic...	21004052	2
Bombastus	Anionic hydrophilic cream SR...	21004449	6
Bombastus	Anionic hydrophilic cream SR...	21004450	1
Bombastus	Anionic hydrophilic cream SR...	21004451	1
Bombastus	Anionic hydrophilic cream SR...	21004452	1
Bombastus	Anionic hydrophilic cream SR...	21004454	1
Bombastus	Hydrophilic cream, non-ionic...	21004455	3
Bombastus	Anionic hydrophilic cream SR...	21004456	2
Bombastus	Anionic hydrophilic cream SR...	21004457	3
Bombastus	Anionic hydrophilic cream DAB	21004551	2
Bombastus	Anionic hydrophilic cream DAB	21004552	1
Bombastus	Anionic hydrophilic cream DAB	21004556	1
Bombastus	Anionic hydrophilic cream DAB	21004557	1
Bombastus	Anionic hydrophilic cream SR...	21005065	1
Bombastus	Hydrophilic cream, non-ionic...	21005179	1
Bombastus	Anionic hydrophilic cream DAB	2100546	1
Bombastus	Anionic hydrophilic cream SR...	2100805	1
Bombastus	Hydrophilic cream, non-ionic...	211118(21002711)	1
Bombastus	Anionic hydrophilic cream DAB	22000030	1
Bombastus	Anionic hydrophilic cream DAB	22000033	1
Bombastus	Anionic hydrophilic cream DAB	22000035	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream, hydrophobic DAC	22000497	1
Bombastus	Base cream, hydrophobic DAC	22000499	1
Bombastus	Hydrophilic cream, non-ionic...	22001128	3
Bombastus	Anionic hydrophilic cream SR...	22001129	1
Bombastus	Anionic hydrophilic cream DAB	22001250	2
Bombastus	Hydrophilic cream, non-ionic...	22001465	2
Bombastus	Anionic hydrophilic cream SR...	22001757	1
Bombastus	Hydrophilic cream, non-ionic...	220627(21005280)	1
Bombastus	Hydrophilic cream, non-ionic...	220809(22001465)	1
Bombastus	Anionic hydrophilic cream SR...	2215M-03327	1
Bombastus	Anionic hydrophilic cream SR...	229317	2
Bombastus	Anionic hydrophilic cream SR...	229346	1
Bombastus	Hydrophilic cream, non-ionic...	229352	3
Bombastus	Hydrophilic cream, non-ionic...	2293552	1
Bombastus	Anionic hydrophilic cream SR...	244379	1
Bombastus	Anionic hydrophilic cream SR...	258517	1
Bombastus	Anionic hydrophilic cream SR...	261009	1
Bombastus	Anionic hydrophilic cream SR...	261013	2
Bombastus	Base cream, hydrophobic DAC	261112	1
Bombastus	Anionic hydrophilic cream DAB	262772	1
Bombastus	Anionic hydrophilic cream SR...	263823	1
Bombastus	Anionic hydrophilic cream DAB	263981	5
Bombastus	Anionic hydrophilic cream SR...	264643	1
Bombastus	Anionic hydrophilic cream SR...	264644	1
Bombastus	Anionic hydrophilic cream SR...	264751	3
Bombastus	Base cream, hydrophobic DAC	264854	1
Bombastus	Hydrophilic cream, non-ionic...	265335	1
Bombastus	Anionic hydrophilic cream SR...	266051	2
Bombastus	Anionic hydrophilic cream DAB	266175	1
Bombastus	Hydrophilic cream, non-ionic...	267061	1
Bombastus	Hydrophilic cream, non-ionic...	267185	2
Bombastus	Anionic hydrophilic cream DAB	267436	1
Bombastus	Anionic hydrophilic cream DAB	267442	1
Bombastus	Anionic hydrophilic cream SR...	267642	2
Bombastus	Anionic hydrophilic cream SR...	267645	1
Bombastus	Hydrophilic cream, non-ionic...	268347	1
Bombastus	Hydrophilic cream, non-ionic...	268349	1
Bombastus	Hydrophilic cream, non-ionic...	268354	1
Bombastus	Anionic hydrophilic cream SR...	269225	1
Bombastus	Anionic hydrophilic cream SR...	269227	2
Bombastus	Anionic hydrophilic cream SR...	269230	1
Bombastus	Anionic hydrophilic cream SR...	269231	1
Bombastus	Anionic hydrophilic cream SR...	269234	1
Bombastus	Anionic hydrophilic cream SR...	269235	1
Bombastus	Anionic hydrophilic cream SR...	269236	2
Bombastus	Base cream, hydrophobic DAC	269276	1
Bombastus	Anionic hydrophilic cream DAB	269441	1
Bombastus	Anionic hydrophilic cream DAB	269513	2
Bombastus	Anionic hydrophilic cream DAB	269517	1
Bombastus	Hydrophilic cream, non-ionic...	269711	1
Bombastus	Hydrophilic cream, non-ionic...	269712	1
Bombastus	Hydrophilic cream, non-ionic...	269715	1
Bombastus	Hydrophilic cream, non-ionic...	269716	1
Bombastus	Anionic hydrophilic cream DAB	270704	1
Bombastus	Anionic hydrophilic cream DAB	270711	2
Bombastus	Anionic hydrophilic cream DAB	270804	1
Bombastus	Anionic hydrophilic cream DAB	270824	2
Bombastus	Anionic hydrophilic cream DAB	270950	1
Bombastus	Anionic hydrophilic cream DAB	271008	2
Bombastus	Anionic hydrophilic cream DAB	271009	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	271011	1
Bombastus	Anionic hydrophilic cream DAB	271014	2
Bombastus	Base cream, hydrophobic DAC	271091	1
Bombastus	Base cream, hydrophobic DAC	271092	3
Bombastus	Base cream, hydrophobic DAC	271093	1
Bombastus	Base cream, hydrophobic DAC	271095	1
Bombastus	Hydrophilic cream, non-ionic...	271397	1
Bombastus	Hydrophilic cream, non-ionic...	271473	1
Bombastus	Hydrophilic cream, non-ionic...	271520	1
Bombastus	Hydrophilic cream, non-ionic...	271521	2
Bombastus	Hydrophilic cream, non-ionic...	271522	1
Bombastus	Anionic hydrophilic cream SR...	271699	1
Bombastus	Anionic hydrophilic cream SR...	271701	4
Bombastus	Anionic hydrophilic cream SR...	271702	1
Bombastus	Anionic hydrophilic cream SR...	271837	1
Bombastus	Hydrophilic cream, non-ionic...	272472	1
Bombastus	Anionic hydrophilic cream SR...	272510	1
Bombastus	Anionic hydrophilic cream SR...	272511	2
Bombastus	Anionic hydrophilic cream SR...	272513	1
Bombastus	Anionic hydrophilic cream SR...	272514	1
Bombastus	Anionic hydrophilic cream SR...	272515	1
Bombastus	Anionic hydrophilic cream SR...	272516	1
Bombastus	Hydrophilic cream, non-ionic...	273126	2
Bombastus	Hydrophilic cream, non-ionic...	273128	1
Bombastus	Hydrophilic cream, non-ionic...	273130	4
Bombastus	Hydrophilic cream, non-ionic...	273132	1
Bombastus	Hydrophilic cream, non-ionic...	273134	1
Bombastus	Anionic hydrophilic cream DAB	273407	1
Bombastus	Anionic hydrophilic cream DAB	273532	1
Bombastus	Anionic hydrophilic cream DAB	273534	1
Bombastus	Anionic hydrophilic cream DAB	273538	1
Bombastus	Anionic hydrophilic cream DAB	273539	1
Bombastus	Anionic hydrophilic cream SR...	273693	1
Bombastus	Anionic hydrophilic cream SR...	273694	1
Bombastus	Anionic hydrophilic cream SR...	273695	2
Bombastus	Hydrophilic cream, non-ionic...	274102	1
Bombastus	Hydrophilic cream, non-ionic...	274103	2
Bombastus	Hydrophilic cream, non-ionic...	274211	2
Bombastus	Hydrophilic cream, non-ionic...	274212	2
Bombastus	Hydrophilic cream, non-ionic...	274213	1
Bombastus	Hydrophilic cream, non-ionic...	274214	1
Bombastus	Hydrophilic cream, non-ionic...	274216	2
Bombastus	Hydrophilic cream, non-ionic...	274217	1
Bombastus	Hydrophilic cream, non-ionic...	274219	1
Bombastus	Hydrophilic cream, non-ionic...	274222	1
Bombastus	Hydrophilic cream, non-ionic...	274223	5
Bombastus	Anionic hydrophilic cream SR...	274373	1
Bombastus	Anionic hydrophilic cream SR...	274377	2
Bombastus	Anionic hydrophilic cream SR...	274378	3
Bombastus	Anionic hydrophilic cream SR...	274379	1
Bombastus	Anionic hydrophilic cream SR...	274381	4
Bombastus	Anionic hydrophilic cream SR...	274504	2
Bombastus	Anionic hydrophilic cream SR...	274505	1
Bombastus	Anionic hydrophilic cream DAB	274592	1
Bombastus	Anionic hydrophilic cream DAB	274593	1
Bombastus	Anionic hydrophilic cream DAB	274594	1
Bombastus	Anionic hydrophilic cream DAB	274595	2
Bombastus	Anionic hydrophilic cream DAB	274596	1
Bombastus	Anionic hydrophilic cream DAB	274600	2
Bombastus	Anionic hydrophilic cream DAB	274695	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	274695/273533	1
Bombastus	Anionic hydrophilic cream DAB	274696	1
Bombastus	Anionic hydrophilic cream DAB	274697	3
Bombastus	Anionic hydrophilic cream DAB	274698	1
Bombastus	Anionic hydrophilic cream DAB	274765	2
Bombastus	Anionic hydrophilic cream SR...	275926	2
Bombastus	Anionic hydrophilic cream SR...	275927	3
Bombastus	Anionic hydrophilic cream SR...	276073	5
Bombastus	Anionic hydrophilic cream SR...	276074	8
Bombastus	Anionic hydrophilic cream SR...	276075	2
Bombastus	Anionic hydrophilic cream SR...	276077	1
Bombastus	Base cream, hydrophobic DAC	276085	1
Bombastus	Base cream, hydrophobic DAC	276087	1
Bombastus	Hydrophilic cream, non-ionic...	276252	5
Bombastus	Anionic hydrophilic cream DAB	276315	3
Bombastus	Anionic hydrophilic cream DAB	276316	1
Bombastus	Anionic hydrophilic cream DAB	276318	1
Bombastus	Anionic hydrophilic cream DAB	276320	2
Bombastus	Anionic hydrophilic cream DAB	276433	1
Bombastus	Hydrophilic cream, non-ionic...	276593	1
Bombastus	Hydrophilic cream, non-ionic...	276595	1
Bombastus	Hydrophilic cream, non-ionic...	276597	2
Bombastus	Hydrophilic cream, non-ionic...	276598	2
Bombastus	Hydrophilic cream, non-ionic...	276599	2
Bombastus	Hydrophilic cream, non-ionic...	276725	2
Bombastus	Anionic hydrophilic cream DAB	277292	1
Bombastus	Anionic hydrophilic cream DAB	277293	5
Bombastus	Anionic hydrophilic cream DAB	277295	1
Bombastus	Anionic hydrophilic cream DAB	277297	2
Bombastus	Anionic hydrophilic cream DAB	277298	2
Bombastus	Anionic hydrophilic cream DAB	277455	2
Bombastus	Anionic hydrophilic cream DAB	277457	6
Bombastus	Anionic hydrophilic cream DAB	277458	2
Bombastus	Anionic hydrophilic cream DAB	277459	2
Bombastus	Anionic hydrophilic cream DAB	277461	3
Bombastus	Anionic hydrophilic cream DAB	277462	2
Bombastus	Anionic hydrophilic cream DAB	277463	1
Bombastus	Anionic hydrophilic cream DAB	277465	2
Bombastus	Anionic hydrophilic cream SR...	277560	2
Bombastus	Anionic hydrophilic cream SR...	277563	2
Bombastus	Anionic hydrophilic cream SR...	277565	3
Bombastus	Anionic hydrophilic cream SR...	277566	2
Bombastus	Anionic hydrophilic cream SR...	277567	2
Bombastus	Anionic hydrophilic cream SR...	277568	3
Bombastus	Anionic hydrophilic cream SR...	277569	3
Bombastus	Anionic hydrophilic cream SR...	277636	3
Bombastus	Hydrophilic cream, non-ionic...	277637	7
Bombastus	Base cream, hydrophobic DAC	277696	1
Bombastus	Hydrophilic cream, non-ionic...	277871	1
Bombastus	Hydrophilic cream, non-ionic...	277873	4
Bombastus	Hydrophilic cream, non-ionic...	277874	1
Bombastus	Hydrophilic cream, non-ionic...	277877	1
Bombastus	Hydrophilic cream, non-ionic...	277878	9
Bombastus	Hydrophilic cream, non-ionic...	277881	1
Bombastus	Hydrophilic cream, non-ionic...	278025	4
Bombastus	Hydrophilic cream, non-ionic...	278026	3
Bombastus	Hydrophilic cream, non-ionic...	278027	3
Bombastus	Hydrophilic cream, non-ionic...	278028	3
Bombastus	Hydrophilic cream, non-ionic...	278029	1
Bombastus	Anionic hydrophilic cream DAB	278846	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	278849	1
Bombastus	Anionic hydrophilic cream DAB	278852	2
Bombastus	Anionic hydrophilic cream DAB	278853	1
Bombastus	Anionic hydrophilic cream DAB	279055	7
Bombastus	Anionic hydrophilic cream DAB	279056	2
Bombastus	Anionic hydrophilic cream DAB	279057	1
Bombastus	Anionic hydrophilic cream DAB	279059	1
Bombastus	Base cream, hydrophobic DAC	279145	2
Bombastus	Base cream, hydrophobic DAC	279147	2
Bombastus	Base cream, hydrophobic DAC	279148	3
Bombastus	Anionic hydrophilic cream SR...	279195	2
Bombastus	Anionic hydrophilic cream SR...	279198	2
Bombastus	Anionic hydrophilic cream SR...	279199	3
Bombastus	Anionic hydrophilic cream SR...	279200	2
Bombastus	Anionic hydrophilic cream SR...	279201	4
Bombastus	Anionic hydrophilic cream SR...	279202	2
Bombastus	Anionic hydrophilic cream SR...	279323	3
Bombastus	Anionic hydrophilic cream SR...	279324	3
Bombastus	Anionic hydrophilic cream SR...	279325	10
Bombastus	Anionic hydrophilic cream SR...	279326	10
Bombastus	Hydrophilic cream, non-ionic...	279653	1
Bombastus	Hydrophilic cream, non-ionic...	279655	2
Bombastus	Hydrophilic cream, non-ionic...	279656	1
Bombastus	Hydrophilic cream, non-ionic...	279658	1
Bombastus	Hydrophilic cream, non-ionic...	279660	1
Bombastus	Hydrophilic cream, non-ionic...	279661	9
Bombastus	Hydrophilic cream, non-ionic...	279991	1
Bombastus	Anionic hydrophilic cream DAB	280288	2
Bombastus	Anionic hydrophilic cream DAB	280289	4
Bombastus	Anionic hydrophilic cream DAB	280290	1
Bombastus	Anionic hydrophilic cream DAB	280291	1
Bombastus	Anionic hydrophilic cream DAB	280294	1
Bombastus	Anionic hydrophilic cream DAB	280413	1
Bombastus	Anionic hydrophilic cream DAB	280416	1
Bombastus	Anionic hydrophilic cream DAB	280417	2
Bombastus	Anionic hydrophilic cream DAB	280418	2
Bombastus	Anionic hydrophilic cream SR...	280568	2
Bombastus	Anionic hydrophilic cream SR...	280570	2
Bombastus	Anionic hydrophilic cream SR...	280571	1
Bombastus	Anionic hydrophilic cream SR...	280572	1
Bombastus	Anionic hydrophilic cream SR...	280574	4
Bombastus	Anionic hydrophilic cream SR...	280575	2
Bombastus	Anionic hydrophilic cream SR...	280576	8
Bombastus	Anionic hydrophilic cream SR...	280741	7
Bombastus	Base cream, hydrophobic DAC	280809	1
Bombastus	Base cream, hydrophobic DAC	280811	2
Bombastus	Hydrophilic cream, non-ionic...	280984	1
Bombastus	Hydrophilic cream, non-ionic...	280986	2
Bombastus	Hydrophilic cream, non-ionic...	280987	2
Bombastus	Hydrophilic cream, non-ionic...	280993	3
Bombastus	Hydrophilic cream, non-ionic...	281737	3
Bombastus	Anionic hydrophilic cream SR...	281738	5
Bombastus	Anionic hydrophilic cream SR...	281739	6
Bombastus	Anionic hydrophilic cream SR...	281740	5
Bombastus	Anionic hydrophilic cream SR...	281742	4
Bombastus	Anionic hydrophilic cream SR...	281743	2
Bombastus	Anionic hydrophilic cream SR...	281744	5
Bombastus	Anionic hydrophilic cream SR...	281745	1
Bombastus	Anionic hydrophilic cream SR...	281767	8
Bombastus	Hydrophilic cream, non-ionic...	281774	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	281809	4
Bombastus	Anionic hydrophilic cream SR...	281866	9
Bombastus	Anionic hydrophilic cream DAB	281998	1
Bombastus	Anionic hydrophilic cream DAB	281999	1
Bombastus	Anionic hydrophilic cream DAB	282001	1
Bombastus	Anionic hydrophilic cream DAB	282002	1
Bombastus	Anionic hydrophilic cream DAB	282003	1
Bombastus	Anionic hydrophilic cream DAB	282004	3
Bombastus	Anionic hydrophilic cream DAB	282005	1
Bombastus	Anionic hydrophilic cream DAB	282006	5
Bombastus	Anionic hydrophilic cream DAB	282107	1
Bombastus	Anionic hydrophilic cream DAB	282109	1
Bombastus	Anionic hydrophilic cream DAB	282110	5
Bombastus	Anionic hydrophilic cream DAB	282111	2
Bombastus	Anionic hydrophilic cream DAB	282112	1
Bombastus	Anionic hydrophilic cream DAB	282113	2
Bombastus	Anionic hydrophilic cream DAB	282114	4
Bombastus	Anionic hydrophilic cream DAB	282115	1
Bombastus	Base cream, hydrophobic DAC	282161	1
Bombastus	Base cream, hydrophobic DAC	282162	2
Bombastus	Base cream, hydrophobic DAC	282163	1
Bombastus	Hydrophilic cream, non-ionic...	282212	3
Bombastus	Hydrophilic cream, non-ionic...	282213	3
Bombastus	Hydrophilic cream, non-ionic...	282215	2
Bombastus	Hydrophilic cream, non-ionic...	282216	8
Bombastus	Anionic hydrophilic cream SR...	283279	2
Bombastus	Anionic hydrophilic cream SR...	283281	3
Bombastus	Anionic hydrophilic cream SR...	283282	3
Bombastus	Anionic hydrophilic cream SR...	283283	3
Bombastus	Anionic hydrophilic cream SR...	283285	4
Bombastus	Anionic hydrophilic cream SR...	283286	3
Bombastus	Anionic hydrophilic cream DAB	283410	3
Bombastus	Anionic hydrophilic cream DAB	283411	4
Bombastus	Anionic hydrophilic cream DAB	283412	1
Bombastus	Anionic hydrophilic cream DAB	283413	2
Bombastus	Anionic hydrophilic cream DAB	283474	1
Bombastus	Anionic hydrophilic cream DAB	283476	1
Bombastus	Anionic hydrophilic cream DAB	283477	2
Bombastus	Anionic hydrophilic cream DAB	283478	1
Bombastus	Anionic hydrophilic cream DAB	283480	3
Bombastus	Anionic hydrophilic cream DAB	283481	5
Bombastus	Anionic hydrophilic cream DAB	283482	2
Bombastus	Anionic hydrophilic cream DAB	283483	1
Bombastus	Hydrophilic cream, non-ionic...	283634	1
Bombastus	Hydrophilic cream, non-ionic...	283635	2
Bombastus	Hydrophilic cream, non-ionic...	283636	6
Bombastus	Hydrophilic cream, non-ionic...	283637	2
Bombastus	Hydrophilic cream, non-ionic...	283638	2
Bombastus	Hydrophilic cream, non-ionic...	283639	1
Bombastus	Hydrophilic cream, non-ionic...	283692	2
Bombastus	Hydrophilic cream, non-ionic...	283693	1
Bombastus	Hydrophilic cream, non-ionic...	283694	4
Bombastus	Hydrophilic cream, non-ionic...	283695	6
Bombastus	Anionic hydrophilic cream SR...	284077	1
Bombastus	Anionic hydrophilic cream SR...	284078	1
Bombastus	Anionic hydrophilic cream SR...	284079	1
Bombastus	Anionic hydrophilic cream SR...	284080	3
Bombastus	Anionic hydrophilic cream SR...	284081	5
Bombastus	Anionic hydrophilic cream SR...	284082	4
Bombastus	Anionic hydrophilic cream SR...	284083	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream, hydrophobic DAC	284170	1
Bombastus	Base cream, hydrophobic DAC	284171	1
Bombastus	Base cream, hydrophobic DAC	284173	1
Bombastus	Hydrophilic cream, non-ionic...	284891	3
Bombastus	Hydrophilic cream, non-ionic...	284893	2
Bombastus	Hydrophilic cream, non-ionic...	284895	5
Bombastus	Hydrophilic cream, non-ionic...	284896	2
Bombastus	Hydrophilic cream, non-ionic...	284897	1
Bombastus	Hydrophilic cream, non-ionic...	284898	2
Bombastus	Hydrophilic cream, non-ionic...	284899	6
Bombastus	Base cream, hydrophobic DAC	285434	1
Bombastus	Base cream, hydrophobic DAC	285435	2
Bombastus	Base cream, hydrophobic DAC	285437	2
Bombastus	Anionic hydrophilic cream DAB	285589	1
Bombastus	Anionic hydrophilic cream DAB	285591	1
Bombastus	Anionic hydrophilic cream DAB	285592	1
Bombastus	Anionic hydrophilic cream DAB	285593	1
Bombastus	Anionic hydrophilic cream DAB	285594	2
Bombastus	Anionic hydrophilic cream DAB	285595	1
Bombastus	Anionic hydrophilic cream DAB	285596	2
Bombastus	Anionic hydrophilic cream DAB	285597	1
Bombastus	Anionic hydrophlic cream wit...	285829	1
Bombastus	Anionic hydrophilic cream SR...	2858899	1
Bombastus	Anionic hydrophilic cream SR...	285890	2
Bombastus	Anionic hydrophilic cream SR...	285892	1
Bombastus	Anionic hydrophilic cream SR...	285893	2
Bombastus	Anionic hydrophilic cream SR...	285894	2
Bombastus	Anionic hydrophilic cream SR...	285895	3
Bombastus	Anionic hydrophilic cream SR...	285896	3
Bombastus	Anionic hydrophilic cream SR...	285897	3
Bombastus	Anionic hydrophilic cream SR...	285898	11
Bombastus	Anionic hydrophilic cream SR...	285899	5
Bombastus	Hydrophilic cream, non-ionic...	286323	1
Bombastus	Hydrophilic cream, non-ionic...	286325	1
Bombastus	Hydrophilic cream, non-ionic...	286326	7
Bombastus	Hydrophilic cream, non-ionic...	286328	3
Bombastus	Hydrophilic cream, non-ionic...	286329	1
Bombastus	Hydrophilic cream, non-ionic...	286330	2
Bombastus	Anionic hydrophilic cream DAB	286495	2
Bombastus	Anionic hydrophilic cream DAB	286498	3
Bombastus	Anionic hydrophilic cream DAB	286499	3
Bombastus	Anionic hydrophilic cream DAB	286502	3
Bombastus	Anionic hydrophilic cream DAB	286505	2
Bombastus	Base cream, hydrophobic DAC	286514	2
Bombastus	Base cream, hydrophobic DAC	286515	1
Bombastus	Base cream, hydrophobic DAC	286516	3
Bombastus	Hydrophilic cream, non-ionic...	286838	3
Bombastus	Anionic hydrophilic cream SR...	286971	1
Bombastus	Anionic hydrophilic cream SR...	286972	1
Bombastus	Anionic hydrophilic cream SR...	286973	1
Bombastus	Anionic hydrophilic cream SR...	286974	1
Bombastus	Anionic hydrophilic cream SR...	286975	3
Bombastus	Anionic hydrophilic cream SR...	286976	1
Bombastus	Anionic hydrophilic cream SR...	286977	2
Bombastus	Anionic hydrophilic cream SR...	286978	1
Bombastus	Anionic hydrophilic cream SR...	286979	12
Bombastus	Anionic hydrophilic cream SR...	286980	9
Bombastus	Anionic hydrophilic cream DAB	287432	2
Bombastus	Anionic hydrophilic cream DAB	287433	1
Bombastus	Anionic hydrophilic cream DAB	287435	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	287436	2
Bombastus	Anionic hydrophilic cream DAB	287557	6
Bombastus	Anionic hydrophilic cream DAB	287559	2
Bombastus	Anionic hydrophilic cream DAB	287560	1
Bombastus	Anionic hydrophilic cream DAB	287562	4
Bombastus	Anionic hydrophilic cream DAB	287563	1
Bombastus	Anionic hydrophilic cream DAB	287564	2
Bombastus	Anionic hydrophilic cream DAB	287565	1
Bombastus	Hydrophilic cream, non-ionic...	287710	2
Bombastus	Hydrophilic cream, non-ionic...	287711	11
Bombastus	Hydrophilic cream, non-ionic...	287712	2
Bombastus	Hydrophilic cream, non-ionic...	287713	6
Bombastus	Hydrophilic cream, non-ionic...	287715	3
Bombastus	Hydrophilic cream, non-ionic...	287716	1
Bombastus	Hydrophilic cream, non-ionic...	287717	1
Bombastus	Hydrophilic cream, non-ionic...	287761	5
Bombastus	Hydrophilic cream, non-ionic...	287762	2
Bombastus	Hydrophilic cream, non-ionic...	287763	3
Bombastus	Anionic hydrophilic cream SR...	288227	1
Bombastus	Anionic hydrophilic cream SR...	288228	1
Bombastus	Anionic hydrophilic cream SR...	288230	4
Bombastus	Anionic hydrophilic cream SR...	288231	4
Bombastus	Anionic hydrophilic cream SR...	288233	4
Bombastus	Anionic hydrophilic cream SR...	288234	2
Bombastus	Anionic hydrophilic cream SR...	288235	3
Bombastus	Anionic hydrophilic cream SR...	288307	4
Bombastus	Anionic hydrophilic cream SR...	288308	7
Bombastus	Anionic hydrophilic cream SR...	288310	6
Bombastus	Base cream, hydrophobic DAC	288497	4
Bombastus	Base cream, hydrophobic DAC	288499	4
Bombastus	Anionic hydrophilic cream DAB	288570	1
Bombastus	Anionic hydrophilic cream DAB	288573	1
Bombastus	Anionic hydrophilic cream DAB	288574	3
Bombastus	Anionic hydrophilic cream DAB	288575	1
Bombastus	Anionic hydrophilic cream DAB	288652	1
Bombastus	Anionic hydrophilic cream DAB	288655	2
Bombastus	Anionic hydrophilic cream DAB	288656	2
Bombastus	Anionic hydrophilic cream DAB	288657	1
Bombastus	Anionic hydrophilic cream DAB	288658	2
Bombastus	Anionic hydrophilic cream DAB	288659	3
Bombastus	Hydrophilic cream, non-ionic...	2886797	1
Bombastus	Anionic hydrophilic cream DAB	288720	1
Bombastus	Anionic hydrophilic cream DAB	288721	2
Bombastus	Hydrophilic cream, non-ionic...	288793	1
Bombastus	Hydrophilic cream, non-ionic...	288795	4
Bombastus	Hydrophilic cream, non-ionic...	288796	2
Bombastus	Hydrophilic cream, non-ionic...	288797	2
Bombastus	Hydrophilic cream, non-ionic...	288798	1
Bombastus	Hydrophilic cream, non-ionic...	288882	6
Bombastus	Hydrophilic cream, non-ionic...	289126	1
Bombastus	Anionic hydrophilic cream SR...	289322	1
Bombastus	Anionic hydrophilic cream SR...	289323	1
Bombastus	Anionic hydrophilic cream SR...	289324	1
Bombastus	Anionic hydrophilic cream SR...	289325	2
Bombastus	Hydrophilic cream, non-ionic...	289326	4
Bombastus	Anionic hydrophilic cream SR...	289327	4
Bombastus	Anionic hydrophilic cream SR...	289328	3
Bombastus	Anionic hydrophilic cream SR...	289329	1
Bombastus	Anionic hydrophilic cream SR...	289330	3
Bombastus	Anionic hydrophilic cream SR...	289331	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	289332	5
Bombastus	Base cream, hydrophobic DAC	289717	1
Bombastus	Base cream, hydrophobic DAC	289718	3
Bombastus	Base cream, hydrophobic DAC	289720	2
Bombastus	Base cream, hydrophobic DAC	289721	1
Bombastus	Hydrophilic cream, non-ionic...	289937	1
Bombastus	Hydrophilic cream, non-ionic...	289940	2
Bombastus	Hydrophilic cream, non-ionic...	289941	1
Bombastus	Hydrophilic cream, non-ionic...	289942	5
Bombastus	Hydrophilic cream, non-ionic...	289943	4
Bombastus	Hydrophilic cream, non-ionic...	289944	1
Bombastus	Anionic hydrophilic cream DAB	290075	1
Bombastus	Anionic hydrophilic cream DAB	290078	1
Bombastus	Anionic hydrophilic cream DAB	290079	1
Bombastus	Anionic hydrophilic cream DAB	290080	2
Bombastus	Anionic hydrophilic cream DAB	290144	2
Bombastus	Anionic hydrophilic cream DAB	290145	2
Bombastus	Anionic hydrophilic cream DAB	290146	4
Bombastus	Anionic hydrophilic cream DAB	290149	3
Bombastus	Anionic hydrophilic cream DAB	290150	1
Bombastus	Anionic hydrophilic cream DAB	290218	2
Bombastus	Anionic hydrophilic cream DAB	290220	2
Bombastus	Anionic hydrophilic cream SR...	290522	1
Bombastus	Anionic hydrophilic cream SR...	290523	2
Bombastus	Anionic hydrophilic cream SR...	290524	1
Bombastus	Anionic hydrophilic cream SR...	290525	1
Bombastus	Anionic hydrophilic cream SR...	290526	1
Bombastus	Anionic hydrophilic cream SR...	290527	4
Bombastus	Anionic hydrophilic cream SR...	290528	2
Bombastus	Anionic hydrophilic cream SR...	290530	11
Bombastus	Hydrophilic cream, non-ionic...	291382	1
Bombastus	Hydrophilic cream, non-ionic...	291384	3
Bombastus	Hydrophilic cream, non-ionic...	291385	4
Bombastus	Hydrophilic cream, non-ionic...	291386	4
Bombastus	Hydrophilic cream, non-ionic...	291387	1
Bombastus	Hydrophilic cream, non-ionic...	291388	9
Bombastus	Anionic hydrophilic cream SR...	291522	3
Bombastus	Anionic hydrophilic cream SR...	291523	9
Bombastus	Anionic hydrophilic cream SR...	291524	4
Bombastus	Anionic hydrophilic cream SR...	291525	3
Bombastus	Anionic hydrophilic cream SR...	291526	2
Bombastus	Anionic hydrophilic cream SR...	291527	3
Bombastus	Anionic hydrophilic cream SR...	291528	5
Bombastus	Anionic hydrophilic cream SR...	291529	9
Bombastus	Base cream, hydrophobic DAC	291590	4
Bombastus	Base cream, hydrophobic DAC	291593	3
Bombastus	Anionic hydrophilic cream DAB	291650	2
Bombastus	Anionic hydrophilic cream DAB	291655	1
Bombastus	Anionic hydrophilic cream DAB	291656	4
Bombastus	Anionic hydrophilic cream DAB	291657	1
Bombastus	Anionic hydrophilic cream DAB	291658	4
Bombastus	Anionic hydrophilic cream DAB	291659	2
Bombastus	Anionic hydrophilic cream DAB	291729	1
Bombastus	Anionic hydrophilic cream DAB	291731	1
Bombastus	Anionic hydrophilic cream DAB	291732	1
Bombastus	Anionic hydrophilic cream DAB	291822	2
Bombastus	Anionic hydrophilic cream DAB	291823	6
Bombastus	Anionic hydrophilic cream DAB	291824	6
Bombastus	Anionic hydrophilic cream DAB	291825	3
Bombastus	Anionic hydrophilic cream DAB	291832	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrophilic cream, non-ionic...	292452	2
Bombastus	Hydrophilic cream, non-ionic...	292453	1
Bombastus	Hydrophilic cream, non-ionic...	292736	1
Bombastus	Hydrophilic cream, non-ionic...	292737	1
Bombastus	Hydrophilic cream, non-ionic...	292738	1
Bombastus	Hydrophilic cream, non-ionic...	292739	2
Bombastus	Hydrophilic cream, non-ionic...	292740	1
Bombastus	Hydrophilic cream, non-ionic...	292804	6
Bombastus	Hydrophilic cream, non-ionic...	292806	3
Bombastus	Hydrophilic cream, non-ionic...	292807	6
Bombastus	Hydrophilic cream, non-ionic...	292808	1
Bombastus	Hydrophilic cream, non-ionic...	292809	2
Bombastus	Hydrophilic cream, non-ionic...	292810	1
Bombastus	Hydrophilic cream, non-ionic...	292811	5
Bombastus	Hydrophilic cream, non-ionic...	292812	3
Bombastus	Hydrophilic cream, non-ionic...	292814	12
Bombastus	Hydrophilic cream, non-ionic...	292970	1
Bombastus	Anionic hydrophilic cream SR...	292971	1
Bombastus	Anionic hydrophilic cream SR...	292973	1
Bombastus	Anionic hydrophilic cream SR...	292975	2
Bombastus	Anionic hydrophilic cream SR...	292976	5
Bombastus	Anionic hydrophilic cream SR...	292977	5
Bombastus	Anionic hydrophilic cream SR...	292978	4
Bombastus	Anionic hydrophilic cream SR...	292979	3
Bombastus	Anionic hydrophilic cream SR...	292980	3
Bombastus	Anionic hydrophilic cream SR...	293102	2
Bombastus	Anionic hydrophilic cream SR...	293103	6
Bombastus	Anionic hydrophilic cream SR...	293104	6
Bombastus	Anionic hydrophilic cream SR...	293133	3
Bombastus	Anionic hydrophilic cream SR...	293134	2
Bombastus	Anionic hydrophilic cream SR...	293135	10
Bombastus	Base cream, hydrophobic DAC	293161	1
Bombastus	Base cream, hydrophobic DAC	293162	3
Bombastus	Base cream, hydrophobic DAC	293163	5
Bombastus	Base cream, hydrophobic DAC	293167	1
Bombastus	Base cream, hydrophobic DAC	293168	4
Bombastus	Anionic hydrophilic cream DAB	293357	1
Bombastus	Anionic hydrophilic cream DAB	293358	1
Bombastus	Anionic hydrophilic cream DAB	293359	4
Bombastus	Anionic hydrophilic cream DAB	293361	1
Bombastus	Anionic hydrophilic cream DAB	293437	2
Bombastus	Anionic hydrophilic cream DAB	293440	5
Bombastus	Anionic hydrophilic cream DAB	293441	5
Bombastus	Anionic hydrophilic cream DAB	293445	1
Bombastus	Anionic hydrophilic cream DAB	293446	1
Bombastus	Anionic hydrophilic cream DAB	293447	4
Bombastus	Anionic hydrophilic cream DAB	293448	4
Bombastus	Hydrophilic cream, non-ionic...	294305	1
Bombastus	Hydrophilic cream, non-ionic...	294310	2
Bombastus	Hydrophilic cream, non-ionic...	294311	3
Bombastus	Hydrophilic cream, non-ionic...	294313	1
Bombastus	Hydrophilic cream, non-ionic...	294340	1
Bombastus	Hydrophilic cream, non-ionic...	294390	3
Bombastus	Hydrophilic cream, non-ionic...	294406	7
Bombastus	Hydrophilic cream, non-ionic...	294407	5
Bombastus	Hydrophilic cream, non-ionic...	294408	5
Bombastus	Anionic hydrophilic cream DAB	294545	4
Bombastus	Anionic hydrophilic cream DAB	294546	2
Bombastus	Anionic hydrophilic cream DAB	294547	2
Bombastus	Anionic hydrophilic cream DAB	294549	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	294551	1
Bombastus	Anionic hydrophilic cream DAB	294641	1
Bombastus	Anionic hydrophilic cream DAB	294642	2
Bombastus	Anionic hydrophilic cream DAB	294643	5
Bombastus	Anionic hydrophilic cream DAB	294644	5
Bombastus	Anionic hydrophilic cream DAB	2946450	1
Bombastus	Anionic hydrophilic cream DAB	294646	2
Bombastus	Anionic hydrophilic cream DAB	294647	3
Bombastus	Anionic hydrophilic cream DAB	294648	1
Bombastus	Anionic hydrophilic cream DAB	294649	5
Bombastus	Anionic hydrophilic cream DAB	294650	11
Bombastus	Base cream, hydrophobic DAC	294685	6
Bombastus	Base cream, hydrophobic DAC	294686	3
Bombastus	Anionic hydrophilic cream SR...	295165	1
Bombastus	Anionic hydrophilic cream SR...	295166	6
Bombastus	Anionic hydrophilic cream SR...	295167	5
Bombastus	Anionic hydrophilic cream SR...	295169	5
Bombastus	Anionic hydrophilic cream SR...	295170	2
Bombastus	Anionic hydrophilic cream SR...	295171	3
Bombastus	Anionic hydrophilic cream SR...	295172	1
Bombastus	Anionic hydrophilic cream SR...	295232	10
Bombastus	Anionic hydrophilic cream SR...	295233	3
Bombastus	Anionic hydrophilic cream DAB	295396	1
Bombastus	Anionic hydrophilic cream DAB	295397	3
Bombastus	Anionic hydrophilic cream DAB	295399	2
Bombastus	Anionic hydrophilic cream DAB	295400	7
Bombastus	Anionic hydrophilic cream DAB	295401	3
Bombastus	Anionic hydrophilic cream DAB	295403	1
Bombastus	Anionic hydrophilic cream DAB	295404	2
Bombastus	Anionic hydrophilic cream DAB	295511	5
Bombastus	Anionic hydrophilic cream DAB	295512	7
Bombastus	Anionic hydrophilic cream DAB	2955126	1
Bombastus	Anionic hydrophilic cream DAB	295514	2
Bombastus	Anionic hydrophilic cream DAB	295515	2
Bombastus	Anionic hydrophilic cream DAB	295516	5
Bombastus	Anionic hydrophilic cream DAB	295517	9
Bombastus	Anionic hydrophilic cream DAB	295518	8
Bombastus	Hydrophilic cream, non-ionic...	295591	1
Bombastus	Hydrophilic cream, non-ionic...	295644	1
Bombastus	Hydrophilic cream, non-ionic...	295648	3
Bombastus	Hydrophilic cream, non-ionic...	295649	3
Bombastus	Hydrophilic cream, non-ionic...	295650	2
Bombastus	Hydrophilic cream, non-ionic...	295651	2
Bombastus	Hydrophilic cream, non-ionic...	295652	2
Bombastus	Hydrophilic cream, non-ionic...	295653	1
Bombastus	Hydrophilic cream, non-ionic...	295654	4
Bombastus	Hydrophilic cream, non-ionic...	295655	8
Bombastus	Hydrophilic cream, non-ionic...	295656	2
Bombastus	Hydrophilic cream, non-ionic...	295657	11
Bombastus	Anionic hydrophilic cream SR...	296406	1
Bombastus	Anionic hydrophilic cream SR...	296409	4
Bombastus	Anionic hydrophilic cream SR...	296410	3
Bombastus	Anionic hydrophilic cream SR...	296411	3
Bombastus	Anionic hydrophilic cream SR...	296412	4
Bombastus	Anionic hydrophilic cream SR...	296413	2
Bombastus	Anionic hydrophilic cream SR...	296414	9
Bombastus	Anionic hydrophilic cream SR...	296415	4
Bombastus	Anionic hydrophilic cream DAB	296699	3
Bombastus	Anionic hydrophilic cream DAB	296700	4
Bombastus	Anionic hydrophilic cream DAB	296702	6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	296703	8
Bombastus	Anionic hydrophilic cream DAB	296704	2
Bombastus	Anionic hydrophilic cream DAB	296705	5
Bombastus	Anionic hydrophilic cream DAB	296706	3
Bombastus	Anionic hydrophilic cream DAB	296707	3
Bombastus	Anionic hydrophilic cream DAB	296708	3
Bombastus	Anionic hydrophilic cream DAB	296781	1
Bombastus	Anionic hydrophilic cream DAB	296782	1
Bombastus	Anionic hydrophilic cream DAB	296783	4
Bombastus	Anionic hydrophilic cream DAB	296784	2
Bombastus	Anionic hydrophilic cream DAB	296785	2
Bombastus	Anionic hydrophilic cream DAB	296786	3
Bombastus	Anionic hydrophilic cream DAB	296787	6
Bombastus	Base cream, hydrophobic DAC	297043	2
Bombastus	Base cream, hydrophobic DAC	297044	1
Bombastus	Base cream, hydrophobic DAC	297045	1
Bombastus	Base cream, hydrophobic DAC	297046	5
Bombastus	Base cream, hydrophobic DAC	297047	8
Bombastus	Hydrophilic cream, non-ionic...	297298	1
Bombastus	Hydrophilic cream, non-ionic...	297299	1
Bombastus	Hydrophilic cream, non-ionic...	297300	1
Bombastus	Hydrophilic cream, non-ionic...	297302	1
Bombastus	Hydrophilic cream, non-ionic...	297303	4
Bombastus	Hydrophilic cream, non-ionic...	297304	4
Bombastus	Hydrophilic cream, non-ionic...	297305	7
Bombastus	Hydrophilic cream, non-ionic...	297308	16
Bombastus	Hydrophilic cream, non-ionic...	297309	17
Bombastus	Hydrophilic cream, non-ionic...	297310	3
Bombastus	Hydrophilic cream, non-ionic...	297370	1
Bombastus	Hydrophilic cream, non-ionic...	297371	3
Bombastus	Hydrophilic cream, non-ionic...	297372	8
Bombastus	Hydrophilic cream, non-ionic...	297373	4
Bombastus	Hydrophilic cream, non-ionic...	297374	3
Bombastus	Hydrophilic cream, non-ionic...	29739	1
Bombastus	Anionic hydrophilic cream DAB	297663	1
Bombastus	Anionic hydrophilic cream DAB	297666	1
Bombastus	Anionic hydrophilic cream DAB	297667	1
Bombastus	Anionic hydrophilic cream DAB	297668	6
Bombastus	Anionic hydrophilic cream DAB	297669	5
Bombastus	Anionic hydrophilic cream DAB	297670	2
Bombastus	Anionic hydrophilic cream DAB	297671	4
Bombastus	Anionic hydrophilic cream DAB	297672	4
Bombastus	Anionic hydrophilic cream DAB	297673	1
Bombastus	Anionic hydrophilic cream DAB	297674	1
Bombastus	Anionic hydrophilic cream DAB	297675	6
Bombastus	Anionic hydrophilic cream DAB	297676	2
Bombastus	Anionic hydrophilic cream DAB	297677	2
Bombastus	Anionic hydrophilic cream DAB	297679	7
Bombastus	Anionic hydrophilic cream DAB	297680	5
Bombastus	Anionic hydrophilic cream SR...	297817	1
Bombastus	Anionic hydrophilic cream SR...	297819	1
Bombastus	Anionic hydrophilic cream SR...	297820	2
Bombastus	Anionic hydrophilic cream SR...	297821	7
Bombastus	Anionic hydrophilic cream SR...	297822	4
Bombastus	Anionic hydrophilic cream SR...	297823	7
Bombastus	Anionic hydrophilic cream SR...	297908	2
Bombastus	Anionic hydrophilic cream SR...	297909	1
Bombastus	Anionic hydrophilic cream SR...	297910	3
Bombastus	Hydrophilic cream, non-ionic...	297911	5
Bombastus	Anionic hydrophilic cream SR...	297912	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	297913	10
Bombastus	Base cream, hydrophobic DAC	298350	1
Bombastus	Base cream, hydrophobic DAC	298351	1
Bombastus	Base cream, hydrophobic DAC	298353	8
Bombastus	Base cream, hydrophobic DAC	298354	6
Bombastus	Hydrophilic cream, non-ionic...	298978	1
Bombastus	Hydrophilic cream, non-ionic...	298979	1
Bombastus	Hydrophilic cream, non-ionic...	298981	9
Bombastus	Hydrophilic cream, non-ionic...	298982	3
Bombastus	Hydrophilic cream, non-ionic...	298983	4
Bombastus	Hydrophilic cream, non-ionic...	298984	3
Bombastus	Anionic hydrophilic cream SR...	299253	4
Bombastus	Anionic hydrophilic cream SR...	299254	3
Bombastus	Anionic hydrophilic cream SR...	299255	4
Bombastus	Anionic hydrophilic cream DAB	299256	9
Bombastus	Anionic hydrophilic cream SR...	29926	1
Bombastus	Hydrophilic cream, non-ionic...	2A040118	1
Bombastus	Hydrophilic cream, non-ionic...	2x295649	1
Bombastus	Anionic hydrophilic cream SR...	2x297819	1
Bombastus	Hydrophilic cream, non-ionic...	300035	4
Bombastus	Anionic hydrophilic cream DAB	300348	3
Bombastus	Anionic hydrophilic cream DAB	300349	2
Bombastus	Anionic hydrophilic cream DAB	300350	3
Bombastus	Anionic hydrophilic cream DAB	300351	4
Bombastus	Base cream, hydrophobic DAC	300352	2
Bombastus	Anionic hydrophilic cream DAB	300353	5
Bombastus	Anionic hydrophilic cream DAB	300355	2
Bombastus	Anionic hydrophilic cream DAB	300356	5
Bombastus	Anionic hydrophilic cream DAB	300357	2
Bombastus	Anionic hydrophilic cream DAB	300358	6
Bombastus	Anionic hydrophilic cream DAB	300360	3
Bombastus	Anionic hydrophilic cream DAB	300361	2
Bombastus	Anionic hydrophilic cream DAB	300362	1
Bombastus	Anionic hydrophilic cream DAB	300363	1
Bombastus	Anionic hydrophilic cream DAB	300364	3
Bombastus	Anionic hydrophilic cream DAB	300365	7
Bombastus	Base cream, hydrophobic DAC	300417	5
Bombastus	Anionic hydrophilic cream SR...	300560	1
Bombastus	Anionic hydrophilic cream SR...	300561	3
Bombastus	Anionic hydrophilic cream SR...	300562	3
Bombastus	Anionic hydrophilic cream SR...	300563	3
Bombastus	Anionic hydrophilic cream SR...	300564	18
Bombastus	Hydrophilic cream, non-ionic...	300756	3
Bombastus	Hydrophilic cream, non-ionic...	300758	1
Bombastus	Hydrophilic cream, non-ionic...	300759	3
Bombastus	Hydrophilic cream, non-ionic...	300760	5
Bombastus	Hydrophilic cream, non-ionic...	300761	4
Bombastus	Hydrophilic cream, non-ionic...	300762	2
Bombastus	Hydrophilic cream, non-ionic...	300763	5
Bombastus	Hydrophilic cream, non-ionic...	300764	5
Bombastus	Hydrophilic cream, non-ionic...	300764x2	1
Bombastus	Hydrophilic cream, non-ionic...	300765	2
Bombastus	Hydrophilic cream, non-ionic...	300766	11
Bombastus	Base cream, hydrophobic DAC	300893	1
Bombastus	Base cream, hydrophobic DAC	300894	2
Bombastus	Anionic hydrophilic cream SR...	300946	1
Bombastus	Anionic hydrophilic cream SR...	300947	1
Bombastus	Anionic hydrophilic cream SR...	300950	5
Bombastus	Anionic hydrophilic cream SR...	300951	6
Bombastus	Anionic hydrophilic cream SR...	300952	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	300953	3
Bombastus	Anionic hydrophilic cream SR...	300954	1
Bombastus	Anionic hydrophilic cream SR...	300955	4
Bombastus	Anionic hydrophilic cream SR...	300956	15
Bombastus	Anionic hydrophilic cream SR...	300956-20160615Ma4	1
Bombastus	Anionic hydrophilic cream SR...	300957	11
Bombastus	Anionic hydrophilic cream DAB	301266	1
Bombastus	Anionic hydrophilic cream DAB	301267	5
Bombastus	Anionic hydrophilic cream DAB	301268	2
Bombastus	Anionic hydrophilic cream DAB	301269	7
Bombastus	Anionic hydrophilic cream DAB	301270	2
Bombastus	Anionic hydrophilic cream DAB	301271	5
Bombastus	Anionic hydrophilic cream DAB	301272	2
Bombastus	Anionic hydrophilic cream DAB	301349	3
Bombastus	Anionic hydrophilic cream DAB	301350	6
Bombastus	Anionic hydrophilic cream DAB	301351	4
Bombastus	Anionic hydrophilic cream DAB	301352	7
Bombastus	Anionic hydrophilic cream DAB	301353	4
Bombastus	Anionic hydrophilic cream DAB	301354	5
Bombastus	Anionic hydrophilic cream DAB	301355	1
Bombastus	Anionic hydrophilic cream DAB	301356	2
Bombastus	Anionic hydrophilic cream DAB	301357	4
Bombastus	Anionic hydrophilic cream DAB	301358	3
Bombastus	Base cream, hydrophobic DAC	301455	2
Bombastus	Base cream, hydrophobic DAC	301457	6
Bombastus	Hydrophilic cream, non-ionic...	30162	1
Bombastus	Hydrophilic cream, non-ionic...	301621	2
Bombastus	Hydrophilic cream, non-ionic...	301622	5
Bombastus	Hydrophilic cream, non-ionic...	301623	6
Bombastus	Hydrophilic cream, non-ionic...	301624	4
Bombastus	Hydrophilic cream, non-ionic...	301625	1
Bombastus	Hydrophilic cream, non-ionic...	301626	6
Bombastus	Hydrophilic cream, non-ionic...	301627	14
Bombastus	Anionic hydrophilic cream SR...	3018E-03327	1
Bombastus	Base cream, hydrophobic DAC	302131	3
Bombastus	Base cream, hydrophobic DAC	302133	1
Bombastus	Base cream, hydrophobic DAC	302134	3
Bombastus	Anionic hydrophilic cream SR...	302190	1
Bombastus	Anionic hydrophilic cream SR...	302191	1
Bombastus	Anionic hydrophilic cream SR...	302192	1
Bombastus	Anionic hydrophilic cream SR...	302193	2
Bombastus	Anionic hydrophilic cream SR...	302194	5
Bombastus	Anionic hydrophilic cream SR...	302195	4
Bombastus	Anionic hydrophilic cream SR...	302196	2
Bombastus	Anionic hydrophlic cream wit...	302197	1
Bombastus	Anionic hydrophilic cream SR...	302198	1
Bombastus	Anionic hydrophilic cream SR...	302199	6
Bombastus	Anionic hydrophilic cream SR...	302200	6
Bombastus	Anionic hydrophilic cream DAB	302452	3
Bombastus	Anionic hydrophilic cream DAB	302453	4
Bombastus	Anionic hydrophilic cream DAB	302454	4
Bombastus	Anionic hydrophilic cream DAB	302456	3
Bombastus	Anionic hydrophilic cream DAB	302457	1
Bombastus	Anionic hydrophilic cream DAB	302459	1
Bombastus	Anionic hydrophilic cream DAB	302460	7
Bombastus	Anionic hydrophilic cream DAB	302461	3
Bombastus	Anionic hydrophilic cream DAB	302462	5
Bombastus	Anionic hydrophilic cream DAB	302463	7
Bombastus	Anionic hydrophilic cream DAB	302464	3
Bombastus	Anionic hydrophilic cream DAB	302465	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream DAB	302466	3
Bombastus	Anionic hydrophilic cream DAB	302467	2
Bombastus	Anionic hydrophilic cream DAB	302468	2
Bombastus	Anionic hydrophilic cream DAB	302469	1
Bombastus	Anionic hydrophilic cream DAB	302470	2
Bombastus	Anionic hydrophilic cream DAB	302471	2
Bombastus	Hydrophilic cream, non-ionic...	302683	3
Bombastus	Hydrophilic cream, non-ionic...	302684	3
Bombastus	Hydrophilic cream, non-ionic...	302685	2
Bombastus	Hydrophilic cream, non-ionic...	302686	3
Bombastus	Hydrophilic cream, non-ionic...	302687	6
Bombastus	Hydrophilic cream, non-ionic...	302688	9
Bombastus	Hydrophilic cream, non-ionic...	302689	2
Bombastus	Hydrophilic cream, non-ionic...	302690	8
Bombastus	Hydrophilic cream, non-ionic...	302691	12
Bombastus	Hydrophilic cream, non-ionic...	302764	1
Bombastus	Base cream, hydrophobic DAC	303083	1
Bombastus	Base cream, hydrophobic DAC	303374	1
Bombastus	Base cream, hydrophobic DAC	303376	5
Bombastus	Base cream, hydrophobic DAC	303377	2
Bombastus	Anionic hydrophilic cream SR...	303726	1
Bombastus	Anionic hydrophilic cream SR...	303728	6
Bombastus	Anionic hydrophilic cream SR...	303729	2
Bombastus	Anionic hydrophilic cream SR...	303731	6
Bombastus	Anionic hydrophilic cream SR...	303732	4
Bombastus	Anionic hydrophilic cream SR...	303733	5
Bombastus	Anionic hydrophilic cream SR...	303734	3
Bombastus	Hydrophilic cream, non-ionic...	303735	12
Bombastus	Anionic hydrophilic cream DAB	303736	9
Bombastus	Hydrophilic cream, non-ionic...	303764	5
Bombastus	Anionic hydrophilic cream DAB	304089	6
Bombastus	Anionic hydrophilic cream DAB	304090	1
Bombastus	Anionic hydrophilic cream DAB	304093	3
Bombastus	Anionic hydrophilic cream DAB	304094	1
Bombastus	Anionic hydrophilic cream DAB	304095	1
Bombastus	Anionic hydrophilic cream DAB	304096	1
Bombastus	Anionic hydrophilic cream DAB	304097	7
Bombastus	Anionic hydrophilic cream DAB	304098	15
Bombastus	Anionic hydrophilic cream DAB	304099	3
Bombastus	Anionic hydrophilic cream DAB	304100	3
Bombastus	Anionic hydrophilic cream DAB	304101	4
Bombastus	Anionic hydrophilic cream DAB	304102	3
Bombastus	Anionic hydrophilic cream DAB	304105	1
Bombastus	Hydrophilic cream, non-ionic...	304771	1
Bombastus	Hydrophilic cream, non-ionic...	304773	10
Bombastus	Hydrophilic cream, non-ionic...	304774	10
Bombastus	Hydrophilic cream, non-ionic...	304775	7
Bombastus	Hydrophilic cream, non-ionic...	304776	7
Bombastus	Hydrophilic cream, non-ionic...	304777	4
Bombastus	Hydrophilic cream, non-ionic...	304778	6
Bombastus	Hydrophilic cream, non-ionic...	304779	3
Bombastus	Anionic hydrophilic cream SR...	305062	1
Bombastus	Anionic hydrophilic cream SR...	305063	1
Bombastus	Anionic hydrophilic cream SR...	305064	7
Bombastus	Anionic hydrophilic cream SR...	305065	4
Bombastus	Anionic hydrophilic cream SR...	305066	3
Bombastus	Anionic hydrophilic cream DAB	305067	5
Bombastus	Anionic hydrophilic cream SR...	305068	12
Bombastus	Anionic hydrophilic cream SR...	305069	9
Bombastus	Base cream, hydrophobic DAC	305080	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Base cream, hydrophobic DAC	305081	1
Bombastus	Base cream, hydrophobic DAC	305082	1
Bombastus	Base cream, hydrophobic DAC	305083	8
Bombastus	Hydrophilic cream, non-ionic...	305143	4
Bombastus	Anionic hydrophilic cream DAB	305368	5
Bombastus	Anionic hydrophilic cream DAB	305369	1
Bombastus	Anionic hydrophilic cream DAB	30537	1
Bombastus	Anionic hydrophilic cream DAB	305370	5
Bombastus	Anionic hydrophilic cream DAB	305371	2
Bombastus	Anionic hydrophilic cream DAB	305373	2
Bombastus	Anionic hydrophilic cream DAB	305374	5
Bombastus	Anionic hydrophilic cream DAB	305375	3
Bombastus	Anionic hydrophilic cream DAB	305376	2
Bombastus	Anionic hydrophilic cream DAB	305377	3
Bombastus	Anionic hydrophilic cream DAB	305378	4
Bombastus	Anionic hydrophilic cream DAB	305379	5
Bombastus	Anionic hydrophilic cream DAB	305380	4
Bombastus	Anionic hydrophilic cream DAB	305381	3
Bombastus	Anionic hydrophilic cream DAB	305383	1
Bombastus	Anionic hydrophilic cream DAB	305384	1
Bombastus	Anionic hydrophilic cream DAB	305385	4
Bombastus	Anionic hydrophilic cream DAB	305386	5
Bombastus	Anionic hydrophilic cream DAB	305638	1
Bombastus	Hydrophilic cream, non-ionic...	306123	1
Bombastus	Hydrophilic cream, non-ionic...	306124	5
Bombastus	Hydrophilic cream, non-ionic...	306125	1
Bombastus	Hydrophilic cream, non-ionic...	306126	9
Bombastus	Hydrophilic cream, non-ionic...	306127	6
Bombastus	Hydrophilic cream, non-ionic...	306128	4
Bombastus	Hydrophilic cream, non-ionic...	306129	5
Bombastus	Hydrophilic cream, non-ionic...	306130	7
Bombastus	Hydrophilic cream, non-ionic...	306131	21
Bombastus	Base cream, hydrophobic DAC	306395	3
Bombastus	Base cream, hydrophobic DAC	306396	2
Bombastus	Base cream, hydrophobic DAC	306397	9
Bombastus	Anionic hydrophilic cream SR...	306434	1
Bombastus	Anionic hydrophilic cream SR...	306435	10
Bombastus	Anionic hydrophilic cream SR...	306436	3
Bombastus	Anionic hydrophilic cream SR...	306437	2
Bombastus	Anionic hydrophilic cream SR...	306438	4
Bombastus	Anionic hydrophilic cream DAB	306439	3
Bombastus	Anionic hydrophilic cream SR...	306440	8
Bombastus	Hydrophilic cream, non-ionic...	30683	1
Bombastus	Anionic hydrophilic cream DAB	307024	1
Bombastus	Anionic hydrophilic cream DAB	307025	2
Bombastus	Anionic hydrophilic cream DAB	307027	7
Bombastus	Anionic hydrophilic cream DAB	307028	3
Bombastus	Anionic hydrophilic cream DAB	307029	10
Bombastus	Anionic hydrophilic cream DAB	307030	9
Bombastus	Anionic hydrophilic cream DAB	307031	5
Bombastus	Anionic hydrophilic cream DAB	307032	1
Bombastus	Anionic hydrophilic cream DAB	307033	1
Bombastus	Anionic hydrophilic cream DAB	307034	2
Bombastus	Anionic hydrophilic cream DAB	307035	2
Bombastus	Anionic hydrophilic cream DAB	307036	6
Bombastus	Anionic hydrophilic cream DAB	307037	2
Bombastus	Anionic hydrophilic cream DAB	307038	1
Bombastus	Anionic hydrophilic cream DAB	307039	6
Bombastus	Anionic hydrophilic cream SR...	307322	1
Bombastus	Anionic hydrophilic cream SR...	307323	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	307324	1
Bombastus	Anionic hydrophilic cream SR...	307326	2
Bombastus	Anionic hydrophilic cream SR...	307327	4
Bombastus	Anionic hydrophilic cream SR...	307328	2
Bombastus	Anionic hydrophilic cream SR...	307329	7
Bombastus	Anionic hydrophilic cream DAB	307330	4
Bombastus	Anionic hydrophilic cream SR...	307331	4
Bombastus	Anionic hydrophilic cream DAB	307332	1
Bombastus	Anionic hydrophilic cream SR...	307332/1(intern)	1
Bombastus	Anionic hydrophilic cream SR...	307332/2(intern)	1
Bombastus	Anionic hydrophilic cream SR...	307333	6
Bombastus	Anionic hydrophilic cream SR...	3073333	1
Bombastus	Anionic hydrophilic cream SR...	307334	7
Bombastus	Hydrophilic cream, non-ionic...	307523	1
Bombastus	Hydrophilic cream, non-ionic...	307524	1
Bombastus	Hydrophilic cream, non-ionic...	307525	9
Bombastus	Hydrophilic cream, non-ionic...	307526	5
Bombastus	Hydrophilic cream, non-ionic...	307527	4
Bombastus	Hydrophilic cream, non-ionic...	307528	3
Bombastus	Hydrophilic cream, non-ionic...	307529	2
Bombastus	Hydrophilic cream, non-ionic...	307530	7
Bombastus	Hydrophilic cream, non-ionic...	307531	24
Bombastus	Base cream, hydrophobic DAC	307765	2
Bombastus	Base cream, hydrophobic DAC	307766	2
Bombastus	Base cream, hydrophobic DAC	307767	1
Bombastus	Base cream, hydrophobic DAC	307768	3
Bombastus	Base cream, hydrophobic DAC	307769	3
Bombastus	Base cream, hydrophobic DAC	307770	4
Bombastus	Base cream, hydrophobic DAC	307771	12
Bombastus	Anionic hydrophilic cream SR...	308210	1
Bombastus	Anionic hydrophilic cream SR...	308213	1
Bombastus	Anionic hydrophilic cream SR...	308214	1
Bombastus	Anionic hydrophilic cream SR...	308215	1
Bombastus	Anionic hydrophilic cream SR...	308217	6
Bombastus	Anionic hydrophilic cream SR...	308218	5
Bombastus	Anionic hydrophilic cream SR...	308219	5
Bombastus	Anionic hydrophilic cream SR...	308220	2
Bombastus	Anionic hydrophilic cream DAB	308221	6
Bombastus	Anionic hydrophilic cream DAB	308392	1
Bombastus	Anionic hydrophilic cream DAB	308393	1
Bombastus	Anionic hydrophilic cream DAB	308396	3
Bombastus	Anionic hydrophilic cream DAB	308397	1
Bombastus	Anionic hydrophilic cream DAB	308398	7
Bombastus	Anionic hydrophilic cream DAB	308399	4
Bombastus	Anionic hydrophilic cream DAB	308400	3
Bombastus	Anionic hydrophilic cream DAB	308401	4
Bombastus	Anionic hydrophilic cream DAB	308402	6
Bombastus	Anionic hydrophilic cream DAB	308403	3
Bombastus	Anionic hydrophilic cream DAB	308404	1
Bombastus	Anionic hydrophilic cream DAB	308405	2
Bombastus	Anionic hydrophilic cream DAB	308406	3
Bombastus	Anionic hydrophilic cream DAB	308407	2
Bombastus	Anionic hydrophilic cream DAB	308408	4
Bombastus	Anionic hydrophilic cream DAB	308480	1
Bombastus	Base cream, hydrophobic DAC	308504	1
Bombastus	Base cream, hydrophobic DAC	308505	2
Bombastus	Base cream, hydrophobic DAC	308506	1
Bombastus	Base cream, hydrophobic DAC	308507	1
Bombastus	Base cream, hydrophobic DAC	308508	7
Bombastus	Base cream, hydrophobic DAC	308509	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrophilic cream, non-ionic…	309902	2
Bombastus	Hydrophilic cream, non-ionic…	309903	5
Bombastus	Hydrophilic cream, non-ionic…	309904	8
Bombastus	Hydrophilic cream, non-ionic…	309905	2
Bombastus	Hydrophilic cream, non-ionic…	309906	2
Bombastus	Hydrophilic cream, non-ionic…	309907	8
Bombastus	Hydrophilic cream, non-ionic…	309908	25
Bombastus	Anionic hydrophilic cream SR…	309911	5
Bombastus	Anionic hydrophilic cream SR…	309912	3
Bombastus	Anionic hydrophilic cream SR…	310012	2
Bombastus	Anionic hydrophilic cream DAB	310217	3
Bombastus	Anionic hydrophilic cream DAB	310218	1
Bombastus	Anionic hydrophilic cream DAB	310220	1
Bombastus	Anionic hydrophilic cream DAB	310221	11
Bombastus	Anionic hydrophilic cream DAB	310222	5
Bombastus	Anionic hydrophilic cream DAB	310265	4
Bombastus	Anionic hydrophilic cream DAB	310266	7
Bombastus	Anionic hydrophilic cream DAB	310267	4
Bombastus	Anionic hydrophilic cream DAB	310269	1
Bombastus	Anionic hydrophilic cream DAB	310270	6
Bombastus	Anionic hydrophilic cream DAB	310271	5
Bombastus	Anionic hydrophilic cream DAB	310272	1
Bombastus	Anionic hydrophilic cream DAB	310273	8
Bombastus	Hydrophilic cream, non-ionic…	310513	1
Bombastus	Hydrophilic cream, non-ionic…	310514	2
Bombastus	Hydrophilic cream, non-ionic…	310515	6
Bombastus	Hydrophilic cream, non-ionic…	310516	3
Bombastus	Hydrophilic cream, non-ionic…	310517	7
Bombastus	Hydrophilic cream, non-ionic…	310518	8
Bombastus	Hydrophilic cream, non-ionic…	310519	5
Bombastus	Hydrophilic cream, non-ionic…	310520	20
Bombastus	Base cream, hydrophobic DAC	310823	6
Bombastus	Base cream, hydrophobic DAC	310824	1
Bombastus	Base cream, hydrophobic DAC	310825	1
Bombastus	Base cream, hydrophobic DAC	310826	3
Bombastus	Base cream, hydrophobic DAC	310827	13
Bombastus	Base cream, hydrophobic DAC	310828	8
Bombastus	Anionic hydrophilic cream SR…	310873	4
Bombastus	Anionic hydrophilic cream SR…	311050	1
Bombastus	Anionic hydrophilic cream SR…	311051	2
Bombastus	Anionic hydrophilic cream SR…	311052	2
Bombastus	Anionic hydrophilic cream SR…	311053	2
Bombastus	Anionic hydrophilic cream DAB	311054	5
Bombastus	Anionic hydrophilic cream SR…	311055	7
Bombastus	Anionic hydrophilic cream DAB	311118	4
Bombastus	Anionic hydrophilic cream DAB	311121	5
Bombastus	Anionic hydrophilic cream DAB	311122	7
Bombastus	Anionic hydrophilic cream DAB	311123	10
Bombastus	Anionic hydrophilic cream DAB	311124	3
Bombastus	Anionic hydrophilic cream DAB	311125	4
Bombastus	Anionic hydrophilic cream DAB	311126	1
Bombastus	Anionic hydrophilic cream DAB	311127	12
Bombastus	Anionic hydrophilic cream DAB	311128	6
Bombastus	Anionic hydrophilic cream DAB	311129	2
Bombastus	Anionic hydrophilic cream DAB	311130	3
Bombastus	Anionic hydrophilic cream DAB	311131	7
Bombastus	Anionic hydrophilic cream DAB	311132	8
Bombastus	Anionic hydrophilic cream DAB	311133	8
Bombastus	Anionic hydrophilic cream DAB	311134	12
Bombastus	Anionic hydrophilic cream DAB	320461	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Anionic hydrophilic cream SR...	3213I-03327	1
Bombastus	Hydrophilic cream, non-ionic...	3x297305	1
Bombastus	Anionic hydrophilic cream DAB	403099	1
Bombastus	Anionic hydrophilic cream SR...	5012E-03327	1
Bombastus	Anionic hydrophilic cream SR...	5B020419	1
Bombastus	Base cream, hydrophobic DAC	60080401	6
Bombastus	Base cream, hydrophobic DAC	60080402	2
Bombastus	Anionic hydrophilic cream DAB	60080601	2
Bombastus	Anionic hydrophilic cream DAB	60080602	7
Bombastus	Anionic hydrophilic cream SR...	60089211	5
Bombastus	Anionic hydrophilic cream SR...	60089212	2
Bombastus	Anionic hydrophilic cream SR...	60089214	1
Bombastus	Hydrophilic cream, non-ionic...	60089511	4
Bombastus	Hydrophilic cream, non-ionic...	60089512	1
Bombastus	Anionic hydrophilic cream DAB	6080602	1
Bombastus	Anionic hydrophilic cream DAB	6861306	1
Bombastus	Hydrophilic cream, non-ionic...	7(20005132)	1
Bombastus	Wolff® base half-fat cream	701080	2
Bombastus	Wolff® base half-fat cream	707370	1
Bombastus	Hydrophilic cream, non-ionic...	8(20005132)	1
Bombastus	Anionic hydrophilic cream SR...	80616-09	1
Bombastus	Hydrophilic cream, non-ionic...	82216	1
Bombastus	Anionic hydrophilic cream SR...	82440	1
Bombastus	Base cream, hydrophobic DAC	9001127	1
Bombastus	Anionic hydrophilic cream SR...	90064651	1
Bombastus	Hydrophilic cream, non-ionic...	90065	1
Bombastus	Anionic hydrophilic cream SR...	91770	1
Bombastus	Hydrophilic cream, non-ionic...	96914	1
Bombastus	Anionic hydrophilic cream SR...	98245	1
Bombastus	Hydrophilic cream, non-ionic...	99320	2
Bombastus	Anionic hydrophilic cream DAB	Bombastus-WerkeAG	1
Bombastuts/Gehe	Anionic hydrophilic cream DAB	308397	4
Bombastuts/Noweda	Anionic hydrophilic cream DAB	307023	2
Bombastu-Werke AG/Gehe	Anionic hydrophilic cream SR...	281866	2
Bombastu-Werke AG/Gehe	Anionic hydrophilic cream SR...	283286	1
Bombastu-Werke AG/Gehe	Anionic hydrophilic cream SR...	286979	1
Bombatus/Phönix	Hydrophilic cream, non-ionic...	302689	1
BOMBATUS	Anionic hydrophilic cream SR...		1
BOMBATUS	Anionic hydrophilic cream SR...	18001457	1
Bombatus	Anionic hydrophilic cream DAB	19002187	1
Bombostus / Noweda	Hydrophilic cream, non-ionic...	295647	1
Bombstus/ Phoenix	Anionic hydrophilic cream DAB	19003986	1
Bombstus/ Phoenix	Hydrophilic cream, non-ionic...	19005190	1
Bombstus/ Phoenix	Hydrophilic cream, non-ionic...	20001009	1
Bombstus/Gehe	Anionic hydrophilic cream DAB	17001306	1
Bombstus/Gehe	Anionic hydrophilic cream DAB	17001311	1
Bombstus/Gehe	Anionic hydrophilic cream DAB	18001560	1
Bombstus/Gehe	Anionic hydrophilic cream DAB	18004839	1
Bombstus/Gehe	Anionic hydrophilic cream DAB	19000616	1
Bombstus/Gehe	Anionic hydrophilic cream DAB	311126	1
Bombstus/San	Base cream, hydrophobic DAC	162168	1
Bombstus/San	Hydrophilic cream, non-ionic...	306131	1
Bombstus/San	Anionic hydrophilic cream DAB	308403	1
Bombstus	Hydrophilic cream, non-ionic...	295654	1
Bombstus	Anionic hydrophilic cream SR...	300957	1
Bombstus	Anionic hydrophilic cream SR...	311055	1
Bomtastus/Kehr	Base cream, hydrophobic DAC	2001676	1
cae	Anionic hydrophilic cream SR...	14182101	1
Caeanlo	Anionic hydrophilic cream wi...	16067601	1
Caeanlo	Anionic hydrophilic cream SR...	16215501	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caeelo / Gehe	Anionic hydrophilic cream wi...	18180901	1
Caeelo / Gehe	Anionic hydrophilic cream DAB	18298901	1
Cael / GEHE	Anionic hydrophilic cream wi...	20000193002	1
Cael/Sanacorp	Base cream, hydrophobic DAC	15421302	1
cael	Anionic hydrophilic cream wi...	17262201	1
Caela/ L2	Anionic hydrophilic cream DAB	16249902	1
Caele	Anionic hydrophilic cream DAB	9002601	1
Caeleo/ Krieger	Anionic hydrophilic cream SR...	19240002	1
Caelo	Base cream, hydrophobic DAC		42
Caelo	Anionic hydrophilic cream DAB	10000311001	1
Caelo	Anionic hydrophilic cream DAB	1000291001	1
Caelo	Anionic hydrophilic cream DAB	10002950012	1
Caelo	Anionic hydrophilic cream wi...	10006820012	1
Caelo	Anionic hydrophilic cream DAB	10009200012	1
Caelo	Anionic hydrophilic cream SR...	1001436002	1
Caelo	Base cream, hydrophobic DAC	10019470012	1
Caelo	Base cream, hydrophobic DAC	10022015F	1
Caelo	Base cream, hydrophobic DAC	10032015B	1
Caelo	Base cream, hydrophobic DAC	1004302	1
Caelo	Anionic hydrophilic cream DAB	10071706	1
Caelo	Anionic hydrophilic cream DAB	10092013A	1
Caelo	Anionic hydrophilic cream SR...	10102865	1
Caelo	Base cream, hydrophobic DAC	1018A-03497	1
Caelo	Anionic hydrophilic cream DAB	1018E-03327	2
Caelo	Base cream, hydrophobic DAC	10396001	1
Caelo	Anionic hydrophilic cream DAB	104/AKD2	1
Caelo	Anionic hydrophilic cream DAB	106057201	1
Caelo	Anionic hydrophilic cream DAB	106102017/17142701	1
Caelo	Anionic hydrophilic cream DAB	1061302	1
Caelo	Wolff® base half-fat cream	10680	2
Caelo	Anionic hydrophilic cream SR...	1070717/17101501	1
Caelo	Anionic hydrophilic cream DAB	108/AKD16	1
Caelo	Anionic hydrophilic cream DAB	109071801	1
Caelo	Hydrophilic cream, non-ionic...	10A140414	1
Caelo	Hydrophilic cream, non-ionic...	10A240418	1
Caelo	Hydrophilic cream, non-ionic...	10B280317	1
Caelo	Anionic hydrophilic cream SR...	1101212540	1
Caelo	Base cream, hydrophobic DAC	11038802	2
Caelo	Anionic hydrophilic cream SR...	1109212540	1
Caelo	Anionic hydrophilic cream SR...	11101301	1
Caelo	Anionic hydrophilic cream DAB	11120201	1
Caelo	Anionic hydrophilic cream DAB	1114U2540	1
Caelo	Base cream, hydrophobic DAC	11153902	1
Caelo	Anionic hydrophilic cream DAB	11170717	1
Caelo	Anionic hydrophilic cream DAB	11180201	1
Caelo	Base cream, hydrophobic DAC	1118Q-03497	1
Caelo	Anionic hydrophilic cream DAB	1119162101	1
Caelo	Anionic hydrophilic cream DAB	1119387	3
Caelo	Anionic hydrophilic cream DAB	1119683	3
Caelo	Anionic hydrophilic cream DAB	1119720	1
Caelo	Anionic hydrophilic cream wi...	1120617/17102101	1
Caelo	Anionic hydrophilic cream wi...	112210016	1
Caelo	Anionic hydrophilic cream DAB	112212540	1
Caelo	Base cream, hydrophobic DAC	11222002	1
Caelo	Base cream, hydrophobic DAC	11222003	1
Caelo	Anionic hydrophilic cream DAB	11229001	2
Caelo	Anionic hydrophilic cream DAB	11253201	1
Caelo	Anionic hydrophilic cream DAB	11253501	1
Caelo	Anionic hydrophilic cream DAB	11258201	1
Caelo	Base cream, hydrophobic DAC	11289204	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	11311101	1
Caelo	Anionic hydrophilic cream DAB	11311501	1
Caelo	Anionic hydrophilic cream DAB	11321101	1
Caelo	Anionic hydrophilic cream DAB	11326701	3
Caelo	Anionic hydrophilic cream DAB	113313001	1
Caelo	Anionic hydrophilic cream DAB	11331501	2
Caelo	Anionic hydrophilic cream DAB	11331601	1
Caelo	Anionic hydrophilic cream DAB	11332001	1
Caelo	Anionic hydrophilic cream DAB	11332101	1
Caelo	Anionic hydrophilic cream DAB	11332401	1
Caelo	Anionic hydrophilic cream DAB	11332501	1
Caelo	Base cream, hydrophobic DAC	113401301	1
Caelo	Base cream, hydrophobic DAC	11341301	2
Caelo	Base cream, hydrophobic DAC	11341402	2
Caelo	Anionic hydrophilic cream wi...	1180216	1
Caelo	Anionic hydrophilic cream SR...	11A010414	1
Caelo	Hydrophilic cream, non-ionic...	11A250418	1
Caelo	Anionic hydrophilic cream DAB	1200717/17084201	1
Caelo	Anionic hydrophilic cream DAB	12010201	1
Caelo	Anionic hydrophilic cream DAB	12010501	1
Caelo	Anionic hydrophilic cream DAB	12010601	1
Caelo	Anionic hydrophilic cream DAB	12010801	1
Caelo	Anionic hydrophilic cream DAB	12010901	1
Caelo	Anionic hydrophilic cream DAB	12011302	2
Caelo	Anionic hydrophilic cream DAB	12012201	1
Caelo	Base cream, hydrophobic DAC	12025002	2
Caelo	Base cream, hydrophobic DAC	12025003	1
Caelo	Base cream, hydrophobic DAC	12064047	1
Caelo	Base cream, hydrophobic DAC	12064703	1
Caelo	Base cream, hydrophobic DAC	12064704	5
Caelo	Base cream, hydrophobic DAC	12064705	6
Caelo	Anionic hydrophilic cream DAB	12081301	1
Caelo	Anionic hydrophilic cream DAB	12081405	1
Caelo	Anionic hydrophilic cream DAB	12083702	1
Caelo	Anionic hydrophilic cream DAB	12083802	1
Caelo	Anionic hydrophilic cream DAB	12084101	3
Caelo	Anionic hydrophilic cream DAB	12098801	1
Caelo	Anionic hydrophilic cream DAB	12099001	2
Caelo	Anionic hydrophilic cream DAB	12099101	1
Caelo	Anionic hydrophilic cream DAB	12099201	3
Caelo	Anionic hydrophilic cream DAB	12099301	1
Caelo	Anionic hydrophilic cream DAB	12100101	1
Caelo	Anionic hydrophilic cream DAB	12100201	1
Caelo	Anionic hydrophilic cream DAB	12100401	2
Caelo	Anionic hydrophilic cream DAB	12100501	1
Caelo	Anionic hydrophilic cream DAB	12100601	5
Caelo	Anionic hydrophilic cream DAB	12100701	2
Caelo	Anionic hydrophilic cream DAB	12100901	5
Caelo	Anionic hydrophilic cream DAB	12101201	1
Caelo	Anionic hydrophilic cream DAB	1211116	1
Caelo	Hydrophilic cream, non-ionic...	1212601	1
Caelo	Anionic hydrophilic cream DAB	12128502	3
Caelo	Anionic hydrophilic cream wi...	1213M-07009	1
Caelo	Base cream, hydrophobic DAC	12151601	9
Caelo	Base cream, hydrophobic DAC	12151602	6
Caelo	Base cream, hydrophobic DAC	1215601	1
Caelo	Anionic hydrophilic cream DAB	1218501	1
Caelo	Anionic hydrophilic cream DAB	12187701	3
Caelo	Anionic hydrophilic cream DAB	12187801	2
Caelo	Anionic hydrophilic cream DAB	12187901	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	12188001	1
Caelo	Anionic hydrophilic cream DAB	12188101	1
Caelo	Anionic hydrophilic cream DAB	12195201	8
Caelo	Anionic hydrophilic cream DAB	12195301	1
Caelo	Anionic hydrophilic cream DAB	12195401	2
Caelo	Anionic hydrophilic cream DAB	12195501	1
Caelo	Anionic hydrophilic cream DAB	12195601	7
Caelo	Anionic hydrophilic cream DAB	1219A-02540	1
Caelo	Base cream, hydrophobic DAC	1219Q-03497	1
Caelo	Anionic hydrophilic cream DAB	12204301	1
Caelo	Anionic hydrophilic cream DAB	12204501	2
Caelo	Anionic hydrophilic cream DAB	12204601	1
Caelo	Anionic hydrophilic cream wi...	12216501	1
Caelo	Base cream, hydrophobic DAC	12217603	6
Caelo	Anionic hydrophilic cream DAB	12217801	6
Caelo	Anionic hydrophilic cream DAB	12217901	1
Caelo	Anionic hydrophilic cream DAB	12218001	2
Caelo	Anionic hydrophilic cream DAB	12218201	2
Caelo	Anionic hydrophilic cream DAB	12218301	2
Caelo	Anionic hydrophilic cream DAB	12218401	2
Caelo	Anionic hydrophilic cream DAB	12218501	1
Caelo	Anionic hydrophilic cream DAB	12218601	2
Caelo	Anionic hydrophilic cream DAB	12218701	2
Caelo	Anionic hydrophilic cream DAB	12218801	3
Caelo	Anionic hydrophilic cream wi...	12221002	7
Caelo	Anionic hydrophilic cream wi...	12221003	3
Caelo	Anionic hydrophilic cream wi...	1222102	1
Caelo	Base cream, hydrophobic DAC	12229302	7
Caelo	Base cream, hydrophobic DAC	12229304	1
Caelo	Anionic hydrophilic cream DAB	12245401	3
Caelo	Anionic hydrophilic cream DAB	12245501	1
Caelo	Anionic hydrophilic cream DAB	12245503	1
Caelo	Anionic hydrophilic cream DAB	12245601	1
Caelo	Anionic hydrophilic cream DAB	12245701	2
Caelo	Anionic hydrophilic cream DAB	12245801	2
Caelo	Anionic hydrophilic cream DAB	12264401	1
Caelo	Anionic hydrophilic cream DAB	12264501	5
Caelo	Anionic hydrophilic cream DAB	12264502	1
Caelo	Anionic hydrophilic cream DAB	12264601	1
Caelo	Anionic hydrophilic cream DAB	12264701	2
Caelo	Anionic hydrophilic cream DAB	12264801	2
Caelo	Anionic hydrophilic cream DAB	12264901	1
Caelo	Anionic hydrophilic cream DAB	12265001	4
Caelo	Anionic hydrophilic cream DAB	12265101	2
Caelo	Anionic hydrophilic cream DAB	12265201	6
Caelo	Anionic hydrophilic cream DAB	12265301	4
Caelo	Anionic hydrophilic cream DAB	12265401	3
Caelo	Anionic hydrophilic cream DAB	12265501	3
Caelo	Anionic hydrophilic cream DAB	12265601	1
Caelo	Anionic hydrophilic cream DAB	12265701	3
Caelo	Anionic hydrophilic cream DAB	12265801	2
Caelo	Anionic hydrophilic cream DAB	12265901	2
Caelo	Anionic hydrophilic cream DAB	12266101	5
Caelo	Anionic hydrophilic cream DAB	12266201	2
Caelo	Anionic hydrophilic cream wi...	1227-11-629	1
Caelo	Anionic hydrophilic cream wi...	12283001	1
Caelo	Anionic hydrophilic cream wi...	12301301	2
Caelo	Anionic hydrophilic cream wi...	12301302	5
Caelo	Base cream, hydrophobic DAC	12308102	4
Caelo	Base cream, hydrophobic DAC	12308103	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream, hydrophobic DAC	12308201	6
Caelo	Base cream, hydrophobic DAC	123082011	1
Caelo	Base cream, hydrophobic DAC	12308202	2
Caelo	Anionic hydrophilic cream DAB	12313202	8
Caelo	Anionic hydrophilic cream DAB	12313301	3
Caelo	Anionic hydrophilic cream DAB	12313501	6
Caelo	Anionic hydrophilic cream DAB	12313601	4
Caelo	Anionic hydrophilic cream DAB	12313701	8
Caelo	Anionic hydrophilic cream DAB	12313901	9
Caelo	Anionic hydrophilic cream DAB	12314001	1
Caelo	Anionic hydrophilic cream DAB	1231401	1
Caelo	Anionic hydrophilic cream DAB	12314101	9
Caelo	Anionic hydrophilic cream DAB	12314201	5
Caelo	Anionic hydrophilic cream DAB	12314301	6
Caelo	Anionic hydrophilic cream DAB	12314401	10
Caelo	Anionic hydrophilic cream DAB	12314404	1
Caelo	Anionic hydrophilic cream DAB	12314501	4
Caelo	Anionic hydrophilic cream DAB	12314601	8
Caelo	Anionic hydrophilic cream DAB	12314701	9
Caelo	Anionic hydrophilic cream DAB	12314801	6
Caelo	Anionic hydrophilic cream DAB	12314901	5
Caelo	Anionic hydrophilic cream DAB	12316001	1
Caelo	Base cream, hydrophobic DAC	1233	1
Caelo	Anionic hydrophilic cream DAB	1234	4
Caelo	Anionic hydrophilic cream DAB	1234301	1
Caelo	Anionic hydrophilic cream wi...	12344401	1
Caelo	Anionic hydrophilic cream DAB	12345	2
Caelo	Anionic hydrophilic cream DAB	123456	2
Caelo	Anionic hydrophilic cream DAB	1234569	1
Caelo	Hydrophilic cream, non-ionic...	123456test	1
Caelo	Anionic hydrophilic cream DAB	1234test	1
Caelo	Anionic hydrophilic cream wi...	12352701	5
Caelo	Anionic hydrophilic cream wi...	12352702	4
Caelo	Anionic hydrophilic cream wi...	12352703	2
Caelo	Base cream, hydrophobic DAC	123588	1
Caelo	Anionic hydrophilic cream DAB	123test	3
Caelo	Anionic hydrophilic cream wi...	1247001	1
Caelo	Anionic hydrophilic cream wi...	1249001	2
Caelo	Anionic hydrophilic cream wi...	125000102	1
Caelo	Anionic hydrophilic cream DAB	1259487	1
Caelo	Anionic hydrophilic cream DAB	1260216	1
Caelo	Anionic hydrophilic cream DAB	1270417	1
Caelo	Anionic hydrophilic cream DAB	127209110	1
Caelo	Anionic hydrophilic cream DAB	12886	1
Caelo	Base cream, hydrophobic DAC	1290318	1
Caelo	Anionic hydrophilic cream SR...	1290916	1
Caelo	Anionic hydrophilic cream SR...	1291015	1
Caelo	Hydrophilic cream, non-ionic...	129711-499	1
Caelo	Base cream, hydrophobic DAC	13012015A	1
Caelo	Base cream, hydrophobic DAC	13019302	6
Caelo	Base cream, hydrophobic DAC	13019303	14
Caelo	Base cream, hydrophobic DAC	13019304	3
Caelo	Anionic hydrophilic cream DAB	1303312540	1
Caelo	Anionic hydrophilic cream DAB	13035901	1
Caelo	Anionic hydrophilic cream DAB	13035902	5
Caelo	Anionic hydrophilic cream DAB	13036001	5
Caelo	Anionic hydrophilic cream DAB	13036301	6
Caelo	Anionic hydrophilic cream DAB	13036302	1
Caelo	Anionic hydrophilic cream DAB	13038301	5
Caelo	Anionic hydrophilic cream wi...	13067601	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	13068504	1
Caelo	Anionic hydrophilic cream DAB	13070301	5
Caelo	Anionic hydrophilic cream DAB	13070401	2
Caelo	Anionic hydrophilic cream DAB	13070502	4
Caelo	Anionic hydrophilic cream DAB	13070601	6
Caelo	Anionic hydrophilic cream SR...	13071202	1
Caelo	Anionic hydrophilic cream DAB	13071304	1
Caelo	Anionic hydrophilic cream wi...	13072301	2
Caelo	Anionic hydrophilic cream wi...	13072302	8
Caelo	Anionic hydrophilic cream wi...	13072303	2
Caelo	Anionic hydrophilic cream wi...	130723301	1
Caelo	Anionic hydrophilic cream wi...	13072401	5
Caelo	Anionic hydrophilic cream DAB	13072501	4
Caelo	Base cream, hydrophobic DAC	13072602	5
Caelo	Base cream, hydrophobic DAC	13085504	3
Caelo	Base cream, hydrophobic DAC	13085601	13
Caelo	Base cream, hydrophobic DAC	13085602	7
Caelo	Base cream, hydrophobic DAC	13085701	21
Caelo	Base cream, hydrophobic DAC	13085702	1
Caelo	Base cream, hydrophobic DAC	13086701	1
Caelo	Base cream, hydrophobic DAC	1309302	1
Caelo	Anionic hydrophilic cream wi...	13101803	1
Caelo	Anionic hydrophilic cream SR...	1310212540	1
Caelo	Anionic hydrophilic cream DAB	131168901	1
Caelo	Base cream, hydrophobic DAC	131211	2
Caelo	Anionic hydrophilic cream DAB	13121718	1
Caelo	Anionic hydrophilic cream wi...	13125901	10
Caelo	Anionic hydrophilic cream wi...	13125902	3
Caelo	Anionic hydrophilic cream wi...	13125903	1
Caelo	Base cream, hydrophobic DAC	13127502	2
Caelo	Anionic hydrophilic cream DAB	13128601	6
Caelo	Anionic hydrophilic cream DAB	13128701	14
Caelo	Anionic hydrophilic cream DAB	1313314401	1
Caelo	Anionic hydrophilic cream DAB	13154101	4
Caelo	Anionic hydrophilic cream DAB	13154201	2
Caelo	Anionic hydrophilic cream DAB	13154202	1
Caelo	Anionic hydrophilic cream DAB	13154301	6
Caelo	Anionic hydrophilic cream DAB	13154401	1
Caelo	Anionic hydrophilic cream DAB	1315Q-02540	1
Caelo	Anionic hydrophilic cream DAB	13164901	3
Caelo	Anionic hydrophilic cream DAB	13165001	9
Caelo	Anionic hydrophilic cream DAB	13165101	4
Caelo	Anionic hydrophilic cream DAB	13165601	1
Caelo	Anionic hydrophilic cream DAB	13165701	9
Caelo	Anionic hydrophilic cream DAB	13165801	6
Caelo	Anionic hydrophilic cream DAB	13165901	4
Caelo	Anionic hydrophilic cream DAB	13166001	4
Caelo	Anionic hydrophilic cream DAB	13167401	2
Caelo	Anionic hydrophilic cream DAB	13167501	12
Caelo	Anionic hydrophilic cream DAB	13167501-3423310192	1
Caelo	Anionic hydrophilic cream DAB	13167501-3439311151	1
Caelo	Anionic hydrophilic cream DAB	13167601	2
Caelo	Anionic hydrophilic cream DAB	13167701	2
Caelo	Anionic hydrophilic cream DAB	13167801	2
Caelo	Anionic hydrophilic cream DAB	13167901	1
Caelo	Anionic hydrophilic cream DAB	13168001	5
Caelo	Anionic hydrophilic cream DAB	13168101	1
Caelo	Anionic hydrophilic cream DAB	13168201	2
Caelo	Anionic hydrophilic cream DAB	13168301	5
Caelo	Anionic hydrophilic cream DAB	13168401	9

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	13168501	8
Caelo	Anionic hydrophilic cream DAB	13168601	14
Caelo	Anionic hydrophilic cream DAB	13168701	5
Caelo	Anionic hydrophilic cream DAB	13168801	4
Caelo	Anionic hydrophilic cream DAB	13168901	6
Caelo	Anionic hydrophilic cream DAB	13169001	7
Caelo	Anionic hydrophilic cream DAB	13169101	4
Caelo	Anionic hydrophilic cream DAB	13169201	5
Caelo	Anionic hydrophilic cream DAB	13169301	8
Caelo	Anionic hydrophilic cream wi...	13172201	1
Caelo	Anionic hydrophilic cream wi...	13172202	7
Caelo	Anionic hydrophilic cream wi...	13172203	4
Caelo	Base cream, hydrophobic DAC	13175901	15
Caelo	Base cream, hydrophobic DAC	13175902	8
Caelo	Base cream, hydrophobic DAC	13176002	2
Caelo	Base cream, hydrophobic DAC	13176003	11
Caelo	Anionic hydrophilic cream wi...	1324401	1
Caelo	Anionic hydrophilic cream wi...	1324402	1
Caelo	Anionic hydrophilic cream wi...	13244201	9
Caelo	Anionic hydrophilic cream wi...	13244301	4
Caelo	Anionic hydrophilic cream wi...	13244302	2
Caelo	Anionic hydrophilic cream wi...	13244401	14
Caelo	Anionic hydrophilic cream wi...	13244401-3471312131	1
Caelo	Anionic hydrophilic cream DAB	13244402	9
Caelo	Anionic hydrophilic cream DAB	13265301	7
Caelo	Anionic hydrophilic cream DAB	13265401	6
Caelo	Anionic hydrophilic cream DAB	13265501	7
Caelo	Anionic hydrophilic cream DAB	13265602	4
Caelo	Anionic hydrophilic cream DAB	13265701	1
Caelo	Anionic hydrophilic cream SR...	13270103	2
Caelo	Anionic hydrophilic cream DAB	13270701	4
Caelo	Anionic hydrophilic cream DAB	13271001	3
Caelo	Anionic hydrophilic cream DAB	13271101	3
Caelo	Base cream, hydrophobic DAC	13274902	2
Caelo	Base cream, hydrophobic DAC	13275301	11
Caelo	Base cream, hydrophobic DAC	13275302	7
Caelo	Base cream, hydrophobic DAC	13275303	5
Caelo	Anionic hydrophilic cream DAB	13275501	1
Caelo	Anionic hydrophilic cream DAB	13275601	2
Caelo	Anionic hydrophilic cream DAB	13277401	9
Caelo	Anionic hydrophilic cream DAB	13277501	2
Caelo	Anionic hydrophilic cream DAB	13280001	3
Caelo	Anionic hydrophilic cream DAB	13280101	19
Caelo	Anionic hydrophilic cream DAB	13280201	13
Caelo	Anionic hydrophilic cream DAB	13280201-3452311172	1
Caelo	Anionic hydrophilic cream DAB	13310001	1
Caelo	Anionic hydrophilic cream DAB	13312801	4
Caelo	Anionic hydrophilic cream DAB	13312901	4
Caelo	Anionic hydrophilic cream DAB	13313001	5
Caelo	Anionic hydrophilic cream DAB	13313101	3
Caelo	Anionic hydrophilic cream DAB	13313201	7
Caelo	Anionic hydrophilic cream DAB	13313301	4
Caelo	Anionic hydrophilic cream DAB	13313401	5
Caelo	Anionic hydrophilic cream DAB	13313501	4
Caelo	Anionic hydrophilic cream DAB	13313601	5
Caelo	Anionic hydrophilic cream DAB	13313701	6
Caelo	Anionic hydrophilic cream DAB	13313901	10
Caelo	Anionic hydrophilic cream DAB	13314001	8
Caelo	Anionic hydrophilic cream DAB	1331401	1
Caelo	Anionic hydrophilic cream DAB	1331402	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	13314101	9
Caelo	Anionic hydrophilic cream DAB	13314201	12
Caelo	Anionic hydrophilic cream DAB	13314302	3
Caelo	Anionic hydrophilic cream DAB	13314401	10
Caelo	Anionic hydrophilic cream DAB	13314601	2
Caelo	Anionic hydrophilic cream DAB	13314701	2
Caelo	Anionic hydrophilic cream DAB	13314801	1
Caelo	Anionic hydrophilic cream DAB	13314901	2
Caelo	Anionic hydrophilic cream DAB	13315001	7
Caelo	Anionic hydrophilic cream DAB	1331501	1
Caelo	Anionic hydrophilic cream DAB	133312901	1
Caelo	Anionic hydrophilic cream wi...	1334302	1
Caelo	Anionic hydrophilic cream wi...	13343301	11
Caelo	Anionic hydrophilic cream wi...	13343401	22
Caelo	Anionic hydrophilic cream wi...	13343402	7
Caelo	Anionic hydrophilic cream wi...	13343501	9
Caelo	Anionic hydrophilic cream wi...	13344301	1
Caelo	Anionic hydrophilic cream DAB	13346001	4
Caelo	Anionic hydrophilic cream DAB	13346101	4
Caelo	Anionic hydrophilic cream DAB	13346201	2
Caelo	Anionic hydrophilic cream DAB	13346301	10
Caelo	Anionic hydrophilic cream DAB	13346401	1
Caelo	Anionic hydrophilic cream DAB	13346501	5
Caelo	Anionic hydrophilic cream DAB	13346601	8
Caelo	Anionic hydrophilic cream DAB	13346701	1
Caelo	Anionic hydrophilic cream DAB	1336301	2
Caelo	Anionic hydrophilic cream DAB	13363201	10
Caelo	Anionic hydrophilic cream DAB	13363301	6
Caelo	Anionic hydrophilic cream DAB	13363401	2
Caelo	Anionic hydrophilic cream DAB	13363601	14
Caelo	Anionic hydrophilic cream DAB	13363701	2
Caelo	Anionic hydrophilic cream DAB	13364001	15
Caelo	Anionic hydrophilic cream DAB	13364101	4
Caelo	Anionic hydrophilic cream DAB	13364201	5
Caelo	Anionic hydrophilic cream DAB	13364301	5
Caelo	Anionic hydrophilic cream DAB	13364401	5
Caelo	Base cream, hydrophobic DAC	13386401	13
Caelo	Base cream, hydrophobic DAC	13386403	3
Caelo	Anionic hydrophilic cream DAB	13409401	1
Caelo	Anionic hydrophilic cream DAB	13409501	2
Caelo	Base cream, hydrophobic DAC	13B04-T17-001037	2
Caelo	Base cream, hydrophobic DAC	13H13-T06-006165	1
Caelo	Hydrophilic cream, non-ionic...	13k15-m09	1
Caelo	Base cream, hydrophobic DAC	14000601	7
Caelo	Base cream, hydrophobic DAC	14000701	21
Caelo	Base cream, hydrophobic DAC	1400701	1
Caelo	Anionic hydrophilic cream DAB	14016601	1
Caelo	Anionic hydrophilic cream DAB	14016602	2
Caelo	Anionic hydrophilic cream DAB	14016701	11
Caelo	Anionic hydrophilic cream DAB	14016801	4
Caelo	Anionic hydrophilic cream DAB	14016901	1
Caelo	Anionic hydrophilic cream DAB	14017001	2
Caelo	Anionic hydrophilic cream DAB	14024901	1
Caelo	Base cream, hydrophobic DAC	14028002	2
Caelo	Base cream, hydrophobic DAC	14028101	23
Caelo	Base cream, hydrophobic DAC	14028102	10
Caelo	Anionic hydrophilic cream wi...	14030401	10
Caelo	Anionic hydrophilic cream wi...	14030501	10
Caelo	Anionic hydrophilic cream wi...	14030601	5
Caelo	Anionic hydrophilic cream wi...	14030701	27

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream wi...	14030702	4
Caelo	Anionic hydrophilic cream SR...	14041403	1
Caelo	Anionic hydrophilic cream DAB	14042201	1
Caelo	Anionic hydrophilic cream DAB	14042401	1
Caelo	Anionic hydrophilic cream DAB	14042501	2
Caelo	Anionic hydrophilic cream DAB	1404251	1
Caelo	Anionic hydrophilic cream DAB	14042601	1
Caelo	Anionic hydrophilic cream SR...	14051805	1
Caelo	Base cream, hydrophobic DAC	1406140	1
Caelo	Base cream, hydrophobic DAC	14061402	5
Caelo	Base cream, hydrophobic DAC	14061501	21
Caelo	Base cream, hydrophobic DAC	14061601	7
Caelo	Anionic hydrophilic cream DAB	14061801	9
Caelo	Anionic hydrophilic cream DAB	14062101	6
Caelo	Anionic hydrophilic cream DAB	14062201	10
Caelo	Anionic hydrophilic cream DAB	14062301	9
Caelo	Anionic hydrophilic cream DAB	14062401	4
Caelo	Anionic hydrophilic cream DAB	14062501	6
Caelo	Anionic hydrophilic cream DAB	14062601	11
Caelo	Anionic hydrophilic cream DAB	14062701	2
Caelo	Anionic hydrophilic cream DAB	14062801	2
Caelo	Anionic hydrophilic cream DAB	14062901	9
Caelo	Hydrophilic cream, non-ionic...	14063001	2
Caelo	Hydrophilic cream, non-ionic...	14063003	1
Caelo	Anionic hydrophilic cream SR...	14063303	2
Caelo	Anionic hydrophilic cream DAB	14068601	1
Caelo	Anionic hydrophilic cream DAB	14070801	1
Caelo	Base cream, hydrophobic DAC	140885	1
Caelo	Anionic hydrophilic cream wi...	141146101	1
Caelo	Anionic hydrophilic cream DAB	14118101	17
Caelo	Anionic hydrophilic cream DAB	14118201	11
Caelo	Anionic hydrophilic cream DAB	14118301	5
Caelo	Anionic hydrophilic cream DAB	14118401	11
Caelo	Anionic hydrophilic cream DAB	14118501	10
Caelo	Base cream, hydrophobic DAC	14120903	3
Caelo	Anionic hydrophilic cream DAB	14137002	6
Caelo	Anionic hydrophilic cream DAB	14138701	3
Caelo	Anionic hydrophilic cream DAB	14138801	5
Caelo	Anionic hydrophilic cream DAB	14138901	7
Caelo	Anionic hydrophilic cream DAB	14138902	5
Caelo	Anionic hydrophilic cream DAB	14139001	3
Caelo	Base cream, hydrophobic DAC	1414301	1
Caelo	Anionic hydrophilic cream DAB	1414401	1
Caelo	Anionic hydrophilic cream DAB	14144301	13
Caelo	Anionic hydrophilic cream DAB	14144401	6
Caelo	Anionic hydrophilic cream DAB	14144501	5
Caelo	Anionic hydrophilic cream DAB	14144601	1
Caelo	Anionic hydrophilic cream DAB	14144701	3
Caelo	Base cream, hydrophobic DAC	1414501	2
Caelo	Base cream, hydrophobic DAC	14145202	5
Caelo	Base cream, hydrophobic DAC	14145301	23
Caelo	Base cream, hydrophobic DAC	14145401	27
Caelo	Base cream, hydrophobic DAC	14145402	1
Caelo	Anionic hydrophilic cream wi...	14146002	15
Caelo	Anionic hydrophilic cream wi...	14146003	6
Caelo	Anionic hydrophilic cream DAB	141460201	1
Caelo	Anionic hydrophilic cream wi...	14146101	13
Caelo	Anionic hydrophilic cream DAB	14146201	5
Caelo	Anionic hydrophilic cream DAB	14146301	4
Caelo	Anionic hydrophilic cream DAB	14146401	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	14146501	2
Caelo	Anionic hydrophilic cream DAB	14146601	1
Caelo	Anionic hydrophilic cream DAB	1415034401	1
Caelo	Anionic hydrophilic cream wi...	1416101	1
Caelo	Anionic hydrophilic cream DAB	1416401	1
Caelo	Anionic hydrophilic cream DAB	1418101	2
Caelo	Anionic hydrophilic cream SR...	14182101	2
Caelo	Anionic hydrophilic cream SR...	14182104	1
Caelo	Anionic hydrophilic cream DAB	14185201	3
Caelo	Anionic hydrophilic cream DAB	14185301	12
Caelo	Anionic hydrophilic cream DAB	14185401	5
Caelo	Anionic hydrophilic cream DAB	14185501	8
Caelo	Anionic hydrophilic cream DAB	14185601	8
Caelo	Anionic hydrophilic cream DAB	14185701	1
Caelo	Anionic hydrophilic cream DAB	14185702	1
Caelo	Anionic hydrophilic cream DAB	14185801	5
Caelo	Anionic hydrophilic cream DAB	14185901	4
Caelo	Anionic hydrophilic cream DAB	14186001	1
Caelo	Anionic hydrophilic cream DAB	1418601	1
Caelo	Anionic hydrophilic cream DAB	14186101	5
Caelo	Anionic hydrophilic cream DAB	14186501	16
Caelo	Anionic hydrophilic cream DAB	14186601	9
Caelo	Anionic hydrophilic cream DAB	14186702	7
Caelo	Anionic hydrophilic cream DAB	14186801	7
Caelo	Anionic hydrophilic cream DAB	142/AKD51	1
Caelo	Base cream, hydrophobic DAC	14207002	3
Caelo	Anionic hydrophilic cream wi...	14214001	4
Caelo	Anionic hydrophilic cream wi...	14214101	8
Caelo	Anionic hydrophilic cream wi...	14214201	36
Caelo	Anionic hydrophilic cream wi...	14214202	7
Caelo	Anionic hydrophilic cream wi...	14214301	6
Caelo	Anionic hydrophilic cream DAB	142144301	1
Caelo	Base cream, hydrophobic DAC	142154	2
Caelo	Base cream, hydrophobic DAC	14215701	9
Caelo	Hydrophilic cream, non-ionic...	14221101	2
Caelo	Hydrophilic cream, non-ionic...	14221102	1
Caelo	Anionic hydrophilic cream DAB	1423201	1
Caelo	Anionic hydrophilic cream DAB	14232801	1
Caelo	Anionic hydrophilic cream DAB	14232901	5
Caelo	Anionic hydrophilic cream DAB	14233001	4
Caelo	Anionic hydrophilic cream DAB	1423301	2
Caelo	Anionic hydrophilic cream DAB	14233101	11
Caelo	Anionic hydrophilic cream DAB	14233201	8
Caelo	Anionic hydrophilic cream DAB	14233202	9
Caelo	Anionic hydrophilic cream DAB	14233301	7
Caelo	Anionic hydrophilic cream DAB	14233401	10
Caelo	Anionic hydrophilic cream DAB	14233501	3
Caelo	Anionic hydrophilic cream DAB	14233601	8
Caelo	Anionic hydrophilic cream DAB	1423901	1
Caelo	Anionic hydrophilic cream SR...	14244701	6
Caelo	Anionic hydrophilic cream DAB	14255401	1
Caelo	Anionic hydrophilic cream DAB	14263901	6
Caelo	Anionic hydrophilic cream DAB	14264001	11
Caelo	Anionic hydrophilic cream DAB	14264101	5
Caelo	Anionic hydrophilic cream DAB	14264201	8
Caelo	Anionic hydrophilic cream DAB	14264301	5
Caelo	Anionic hydrophilic cream DAB	14264302	1
Caelo	Anionic hydrophilic cream DAB	14267401	1
Caelo	Base cream, hydrophobic DAC	14277401	1
Caelo	Anionic hydrophilic cream DAB	14285501	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	14285601	6
Caelo	Anionic hydrophilic cream DAB	14285701	1
Caelo	Anionic hydrophilic cream DAB	14285801	5
Caelo	Anionic hydrophilic cream DAB	14285902	1
Caelo	Anionic hydrophilic cream DAB	14286001	4
Caelo	Anionic hydrophilic cream DAB	14286101	7
Caelo	Anionic hydrophilic cream DAB	14286201	11
Caelo	Anionic hydrophilic cream DAB	14294201	18
Caelo	Anionic hydrophilic cream DAB	14294301	4
Caelo	Anionic hydrophilic cream DAB	14294501	2
Caelo	Anionic hydrophilic cream DAB	14294601	2
Caelo	Anionic hydrophilic cream DAB	14294701	6
Caelo	Anionic hydrophilic cream DAB	14294801	2
Caelo	Anionic hydrophilic cream DAB	14294902	2
Caelo	Anionic hydrophilic cream DAB	14295001	11
Caelo	Anionic hydrophilic cream DAB	14295101	3
Caelo	Anionic hydrophilic cream DAB	14295201	6
Caelo	Anionic hydrophilic cream SR...	14301501	5
Caelo	Hydrophilic cream, non-ionic...	14304902	7
Caelo	Anionic hydrophilic cream wi...	14334201	14
Caelo	Anionic hydrophilic cream wi...	14334301	25
Caelo	Anionic hydrophilic cream wi...	14334501	19
Caelo	Anionic hydrophilic cream wi...	14334502	7
Caelo	Base cream, hydrophobic DAC	14335501	13
Caelo	Base cream, hydrophobic DAC	14335502	14
Caelo	Base cream, hydrophobic DAC	14335601	4
Caelo	Hydrophilic cream, non-ionic...	14336001	4
Caelo	Anionic hydrophilic cream SR...	14336201	1
Caelo	Anionic hydrophilic cream SR...	14336203	3
Caelo	Anionic hydrophilic cream DAB	14341501	5
Caelo	Anionic hydrophilic cream DAB	14341601	7
Caelo	Anionic hydrophilic cream DAB	14341701	8
Caelo	Anionic hydrophilic cream DAB	14341801	1
Caelo	Anionic hydrophilic cream DAB	14341901	2
Caelo	Anionic hydrophilic cream DAB	14342001	2
Caelo	Anionic hydrophilic cream DAB	14342002	3
Caelo	Anionic hydrophilic cream DAB	14342101	9
Caelo	Anionic hydrophilic cream DAB	14342201	5
Caelo	Anionic hydrophilic cream DAB	14342301	2
Caelo	Anionic hydrophilic cream DAB	14342501	6
Caelo	Anionic hydrophilic cream DAB	14342601	6
Caelo	Anionic hydrophilic cream DAB	14342701	6
Caelo	Anionic hydrophilic cream DAB	14342801	15
Caelo	Anionic hydrophilic cream DAB	14342901	3
Caelo	Anionic hydrophilic cream DAB	1434301	1
Caelo	Base cream, hydrophobic DAC	1435501	1
Caelo	Anionic hydrophilic cream DAB	14366301	5
Caelo	Anionic hydrophilic cream DAB	14366801	20
Caelo	Anionic hydrophilic cream DAB	14366802	2
Caelo	Anionic hydrophilic cream DAB	14367001	12
Caelo	Anionic hydrophilic cream DAB	14367401	14
Caelo	Anionic hydrophilic cream DAB	14374801	4
Caelo	Base cream, hydrophobic DAC	14379902	6
Caelo	Anionic hydrophilic cream DAB	1485401	1
Caelo	Anionic hydrophilic cream DAB	14925101	1
Caelo	Base cream, hydrophobic DAC	14L18-T21-018124	2
Caelo	Base cream, hydrophobic DAC	15/13-T01-026887	1
Caelo	Base cream, hydrophobic DAC	15001001	11
Caelo	Base cream, hydrophobic DAC	15001002	12
Caelo	Base cream, hydrophobic DAC	15001003	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	15001101	9
Caelo	Anionic hydrophilic cream DAB	15001201	10
Caelo	Anionic hydrophilic cream DAB	15001301	11
Caelo	Anionic hydrophilic cream DAB	15001401	8
Caelo	Anionic hydrophilic cream DAB	1500141	3
Caelo	Anionic hydrophilic cream DAB	15011301	1
Caelo	Anionic hydrophilic cream SR...	15011413	1
Caelo	Anionic hydrophilic cream SR...	15014801	4
Caelo	Anionic hydrophilic cream SR...	15014804	1
Caelo	Anionic hydrophilic cream DAB	15026901	4
Caelo	Anionic hydrophilic cream DAB	15027001	31
Caelo	Anionic hydrophilic cream DAB	15027002	2
Caelo	Anionic hydrophilic cream DAB	15027101	6
Caelo	Anionic hydrophilic cream DAB	15027201	5
Caelo	Anionic hydrophilic cream DAB	15027301	3
Caelo	Base cream, hydrophobic DAC	15030702	1
Caelo	Anionic hydrophilic cream DAB	15034201	10
Caelo	Anionic hydrophilic cream DAB	15034301	9
Caelo	Anionic hydrophilic cream DAB	15034401	8
Caelo	Anionic hydrophilic cream DAB	15034501	2
Caelo	Anionic hydrophilic cream DAB	15034601	4
Caelo	Hydrophilic cream, non-ionic...	15037703	8
Caelo	Anionic hydrophilic cream DAB	15039001	10
Caelo	Base cream, hydrophobic DAC	150405	2
Caelo	Transdermal base cream	1504065	1
Caelo	Base cream, hydrophobic DAC	15044702	6
Caelo	Anionic hydrophilic cream wi...	15045301	1
Caelo	Base cream, hydrophobic DAC	15046401	12
Caelo	Base cream, hydrophobic DAC	15046402	6
Caelo	Anionic hydrophilic cream wi...	15048301	16
Caelo	Anionic hydrophilic cream wi...	15048401	6
Caelo	Anionic hydrophilic cream wi...	15048501	18
Caelo	Anionic hydrophilic cream wi...	15048502	12
Caelo	Base cream, hydrophobic DAC	15048701	14
Caelo	Base cream, hydrophobic DAC	15048702	3
Caelo	Anionic hydrophilic cream SR...	15069403	1
Caelo	Anionic hydrophilic cream SR...	15069404	1
Caelo	Anionic hydrophilic cream SR...	15069501	3
Caelo	Anionic hydrophilic cream wi...	15071702	1
Caelo	Anionic hydrophilic cream SR...	15111306	1
Caelo	Base cream, hydrophobic DAC	15111401	6
Caelo	Base cream, hydrophobic DAC	15111402	16
Caelo	Base cream, hydrophobic DAC	15111403	4
Caelo	Wolff® base half-fat cream	15121805	1
Caelo	Base cream, hydrophobic DAC	151259	3
Caelo	Anionic hydrophilic cream wi...	1512901	1
Caelo	Base cream, hydrophobic DAC	15132502	6
Caelo	Base cream, hydrophobic DAC	15132503	3
Caelo	Anionic hydrophilic cream wi...	15132701	5
Caelo	Anionic hydrophilic cream wi...	15132801	11
Caelo	Anionic hydrophilic cream wi...	15132901	4
Caelo	Anionic hydrophilic cream wi...	15132902	15
Caelo	Anionic hydrophilic cream wi...	15133001	20
Caelo	Anionic hydrophilic cream wi...	1513301	3
Caelo	Anionic hydrophilic cream SR...	15134602	3
Caelo	Base cream, hydrophobic DAC	1513502	1
Caelo	Hydrophilic cream, non-ionic...	15155904	5
Caelo	Anionic hydrophilic cream SR...	15172901	5
Caelo	Anionic hydrophilic cream DAB	15199801	5
Caelo	Anionic hydrophilic cream DAB	15199901	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	15200001	5
Caelo	Anionic hydrophilic cream DAB	152000201	1
Caelo	Anionic hydrophilic cream DAB	15200101	8
Caelo	Anionic hydrophilic cream DAB	15200201	7
Caelo	Anionic hydrophilic cream DAB	15200202	1
Caelo	Anionic hydrophilic cream DAB	15200301	9
Caelo	Anionic hydrophilic cream DAB	15200401	4
Caelo	Anionic hydrophilic cream DAB	15200501	5
Caelo	Anionic hydrophilic cream DAB	15200601	5
Caelo	Anionic hydrophilic cream SR...	15205501	3
Caelo	Anionic hydrophilic cream SR...	15205502	2
Caelo	Hydrophilic cream, non-ionic...	15210303	6
Caelo	Base cream, hydrophobic DAC	152209	2
Caelo	Base cream, hydrophobic DAC	15221202	24
Caelo	Base cream, hydrophobic DAC	15221301	27
Caelo	Base cream, hydrophobic DAC	15221401	5
Caelo	Base cream, hydrophobic DAC	1522301	1
Caelo	Base cream, hydrophobic DAC	15240801	1
Caelo	Anionic hydrophilic cream DAB	15250201	1
Caelo	Anionic hydrophilic cream DAB	15258901	5
Caelo	Anionic hydrophilic cream DAB	15259001	9
Caelo	Anionic hydrophilic cream DAB	15259101	8
Caelo	Anionic hydrophilic cream DAB	15259301	1
Caelo	Anionic hydrophilic cream DAB	15266901	3
Caelo	Anionic hydrophilic cream DAB	15267001	3
Caelo	Anionic hydrophilic cream DAB	15267101	5
Caelo	Anionic hydrophilic cream DAB	15267201	8
Caelo	Anionic hydrophilic cream DAB	15267301	7
Caelo	Anionic hydrophilic cream DAB	15267401	16
Caelo	Anionic hydrophilic cream DAB	15267601	4
Caelo	Anionic hydrophilic cream DAB	15267701	3
Caelo	Anionic hydrophilic cream DAB	15267801	10
Caelo	Anionic hydrophilic cream SR...	15268001	1
Caelo	Anionic hydrophilic cream SR...	15268002	2
Caelo	Anionic hydrophilic cream wi...	15272901	3
Caelo	Anionic hydrophilic cream wi...	15272902	6
Caelo	Anionic hydrophilic cream wi...	15273001	32
Caelo	Anionic hydrophilic cream wi...	1527301	1
Caelo	Anionic hydrophilic cream wi...	15273101	17
Caelo	Anionic hydrophilic cream wi...	15273201	17
Caelo	Anionic hydrophilic cream wi...	15273301	13
Caelo	Anionic hydrophilic cream DAB	15315501	5
Caelo	Anionic hydrophilic cream DAB	15315601	3
Caelo	Anionic hydrophilic cream DAB	15315701	7
Caelo	Anionic hydrophilic cream DAB	15315801	2
Caelo	Anionic hydrophilic cream DAB	15315901	4
Caelo	Anionic hydrophilic cream DAB	15319101	3
Caelo	Anionic hydrophilic cream DAB	15319201	7
Caelo	Anionic hydrophilic cream DAB	15319301	6
Caelo	Anionic hydrophilic cream DAB	15319501	10
Caelo	Hydrophilic cream, non-ionic...	15325702	6
Caelo	Hydrophilic cream, non-ionic...	15325801	14
Caelo	Hydrophilic cream, non-ionic...	15325802	1
Caelo	Anionic hydrophilic cream SR...	15329501	12
Caelo	Anionic hydrophilic cream SR...	15329601	11
Caelo	Anionic hydrophilic cream DAB	1535101	1
Caelo	Anionic hydrophilic cream DAB	15352901	12
Caelo	Anionic hydrophilic cream DAB	15353101	2
Caelo	Anionic hydrophilic cream DAB	15353201	9
Caelo	Anionic hydrophilic cream DAB	153532010	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	153552901	1
Caelo	Anionic hydrophilic cream DAB	15357101	1
Caelo	Anionic hydrophilic cream DAB	15357201	4
Caelo	Anionic hydrophilic cream DAB	15357301	3
Caelo	Anionic hydrophilic cream DAB	15357401	9
Caelo	Anionic hydrophilic cream DAB	15357501	2
Caelo	Base cream, hydrophobic DAC	153627	1
Caelo	Hydrophilic cream, non-ionic...	15365601	5
Caelo	Anionic hydrophilic cream SR...	15386502	4
Caelo	Anionic hydrophilic cream SR...	15386503	1
Caelo	Anionic hydrophilic cream SR...	15386602	2
Caelo	Anionic hydrophilic cream DAB	15396801	3
Caelo	Anionic hydrophilic cream DAB	15396901	4
Caelo	Anionic hydrophilic cream DAB	15397101	5
Caelo	Anionic hydrophilic cream DAB	15397201	5
Caelo	Anionic hydrophilic cream DAB	15397301	12
Caelo	Anionic hydrophilic cream DAB	15400401	7
Caelo	Anionic hydrophilic cream DAB	15400501	5
Caelo	Anionic hydrophilic cream DAB	15400601	1
Caelo	Anionic hydrophilic cream DAB	15400701	9
Caelo	Anionic hydrophilic cream DAB	154009	1
Caelo	Anionic hydrophilic cream DAB	15400901	6
Caelo	Anionic hydrophilic cream DAB	15401001	6
Caelo	Anionic hydrophilic cream DAB	15401101	7
Caelo	Anionic hydrophilic cream DAB	15401201	5
Caelo	Anionic hydrophilic cream DAB	15401301	6
Caelo	Anionic hydrophilic cream DAB	15401302	5
Caelo	Anionic hydrophilic cream DAB	15401401	20
Caelo	Anionic hydrophilic cream DAB	15401501	2
Caelo	Anionic hydrophilic cream DAB	15401601	1
Caelo	Anionic hydrophilic cream DAB	15401701	9
Caelo	Anionic hydrophilic cream wi...	15405201	6
Caelo	Anionic hydrophilic cream wi...	1540521	1
Caelo	Anionic hydrophilic cream wi...	15405301	12
Caelo	Anionic hydrophilic cream wi...	15405302	9
Caelo	Anionic hydrophilic cream wi...	15405401	22
Caelo	Anionic hydrophilic cream DAB	1541702	1
Caelo	Base cream, hydrophobic DAC	15421201	36
Caelo	Base cream, hydrophobic DAC	15421302	14
Caelo	Base cream, hydrophobic DAC	15421303	2
Caelo	Base cream, hydrophobic DAC	15421401	14
Caelo	Anionic hydrophilic cream DAB	1542801	1
Caelo	Anionic hydrophilic cream DAB	15428102	5
Caelo	Anionic hydrophilic cream DAB	15428201	9
Caelo	Anionic hydrophilic cream DAB	15428301	7
Caelo	Anionic hydrophilic cream DAB	15428401	4
Caelo	Anionic hydrophilic cream DAB	15428501	7
Caelo	Anionic hydrophilic cream DAB	15431701	12
Caelo	Anionic hydrophilic cream DAB	15431702	20
Caelo	Anionic hydrophilic cream DAB	15431801	4
Caelo	Anionic hydrophilic cream DAB	15431901	2
Caelo	Anionic hydrophilic cream DAB	15432001	8
Caelo	Anionic hydrophilic cream DAB	15432101	11
Caelo	Anionic hydrophilic cream wi...	1545401	1
Caelo	Anionic hydrophilic cream wi...	1548301	2
Caelo	Base cream, hydrophobic DAC	1580755	1
Caelo	Anionic hydrophilic cream SR...	1586503	1
Caelo	Hydrophilic cream, non-ionic...	15A200416	1
Caelo	Base cream, hydrophobic DAC	16(18173902)	1
Caelo	Anionic hydrophilic cream SR...	160107502	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream, hydrophobic DAC	160130	3
Caelo	Anionic hydrophilic cream DAB	1601312540	2
Caelo	Base cream, hydrophobic DAC	160136	2
Caelo	Hydrophilic cream, non-ionic...	16017501	8
Caelo	Anionic hydrophilic cream SR...	16019601	4
Caelo	Anionic hydrophilic cream SR...	16019801	5
Caelo	Anionic hydrophilic cream DAB	160312A	1
Caelo	Anionic hydrophilic cream SR...	1603212540	1
Caelo	Anionic hydrophilic cream DAB	16046201	11
Caelo	Anionic hydrophilic cream DAB	16046301	6
Caelo	Anionic hydrophilic cream DAB	16046501	6
Caelo	Anionic hydrophilic cream DAB	16046601	9
Caelo	Anionic hydrophilic cream DAB	16046701	9
Caelo	Anionic hydrophilic cream DAB	16046801	3
Caelo	Anionic hydrophilic cream DAB	16046901	11
Caelo	Anionic hydrophilic cream DAB	160470001	1
Caelo	Anionic hydrophilic cream DAB	16047001	12
Caelo	Anionic hydrophilic cream DAB	16047101	3
Caelo	Anionic hydrophilic cream SR...	16047301	1
Caelo	Hydrophilic cream, non-ionic...	16054101	7
Caelo	Anionic hydrophilic cream DAB	16057201	14
Caelo	Anionic hydrophilic cream DAB	16057301	22
Caelo	Anionic hydrophilic cream DAB	16057401	9
Caelo	Anionic hydrophilic cream DAB	16057501	11
Caelo	Base cream, hydrophobic DAC	160575101	1
Caelo	Anionic hydrophilic cream DAB	16057601	6
Caelo	Anionic hydrophilic cream DAB	16057701	8
Caelo	Anionic hydrophilic cream DAB	16057801	3
Caelo	Anionic hydrophilic cream DAB	16057901	3
Caelo	Anionic hydrophilic cream DAB	16058001	14
Caelo	Anionic hydrophilic cream DAB	16058101	2
Caelo	Anionic hydrophilic cream wi...	16067301	5
Caelo	Anionic hydrophilic cream wi...	16067401	12
Caelo	Anionic hydrophilic cream wi...	16067501	15
Caelo	Anionic hydrophilic cream wi...	16067601	50
Caelo	Anionic hydrophilic cream wi...	16067701	17
Caelo	Anionic hydrophilic cream wi...	16067801	11
Caelo	Anionic hydrophilic cream wi...	16067901	8
Caelo	Anionic hydrophilic cream DAB	16071506	1
Caelo	Base cream, hydrophobic DAC	16074801	15
Caelo	Base cream, hydrophobic DAC	16074802	25
Caelo	Base cream, hydrophobic DAC	16074803	6
Caelo	Base cream, hydrophobic DAC	16074901	25
Caelo	Base cream, hydrophobic DAC	16075003	5
Caelo	Base cream, hydrophobic DAC	16075101	11
Caelo	Base cream, hydrophobic DAC	16075201	12
Caelo	Base cream, hydrophobic DAC	160826	1
Caelo	Anionic hydrophilic cream DAB	160914UEA	1
Caelo	Transdermal base cream	1609813	1
Caelo	Anionic hydrophilic cream DAB	16103101	14
Caelo	Anionic hydrophilic cream DAB	16103201	4
Caelo	Anionic hydrophilic cream DAB	16103301	15
Caelo	Anionic hydrophilic cream DAB	16103401	16
Caelo	Anionic hydrophilic cream DAB	1610341	1
Caelo	Anionic hydrophilic cream DAB	16103501	5
Caelo	Anionic hydrophilic cream SR...	16107501	17
Caelo	Anionic hydrophilic cream SR...	16107502	13
Caelo	Anionic hydrophilic cream SR...	16107503	3
Caelo	Anionic hydrophilic cream DAB	161101UEA/16156401	1
Caelo	Anionic hydrophilic cream DAB	16114102	9

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic cream, non-ionic…	16114201	13
Caelo	Anionic hydrophilic cream SR…	16126701	1
Caelo	Anionic hydrophilic cream DAB	161431	1
Caelo	Anionic hydrophilic cream DAB	16150601	3
Caelo	Anionic hydrophilic cream DAB	16150701	5
Caelo	Anionic hydrophilic cream DAB	16150702	13
Caelo	Anionic hydrophilic cream DAB	16150703	2
Caelo	Anionic hydrophilic cream DAB	16150801	19
Caelo	Anionic hydrophilic cream DAB	16150901	16
Caelo	Anionic hydrophilic cream DAB	16151002	1
Caelo	Anionic hydrophilic cream DAB	16152501	5
Caelo	Anionic hydrophilic cream DAB	16152701	18
Caelo	Anionic hydrophilic cream DAB	16152801	16
Caelo	Anionic hydrophilic cream DAB	16152901	4
Caelo	Base cream, hydrophobic DAC	1615403	1
Caelo	Base cream, hydrophobic DAC	1615500	1
Caelo	Base cream, hydrophobic DAC	1615501	1
Caelo	Anionic hydrophilic cream DAB	16156001	16
Caelo	Anionic hydrophilic cream DAB	16156101	11
Caelo	Anionic hydrophilic cream DAB	16156201	3
Caelo	Anionic hydrophilic cream DAB	16156301	3
Caelo	Anionic hydrophilic cream DAB	1615640	1
Caelo	Anionic hydrophilic cream DAB	16156401	21
Caelo	Anionic hydrophilic cream DAB	16158501	3
Caelo	Anionic hydrophilic cream DAB	16158601	6
Caelo	Anionic hydrophilic cream DAB	16158701	25
Caelo	Anionic hydrophilic cream DAB	16158802	4
Caelo	Anionic hydrophilic cream DAB	16158803	8
Caelo	Anionic hydrophilic cream DAB	16158901	20
Caelo	Base cream, hydrophobic DAC	16165403	30
Caelo	Base cream, hydrophobic DAC	16165501	57
Caelo	Base cream, hydrophobic DAC	16165502	4
Caelo	Base cream, hydrophobic DAC	16165701	11
Caelo	Anionic hydrophilic cream DAB	16169401	1
Caelo	Hydrophilic cream, non-ionic…	16169501	4
Caelo	Base cream, hydrophobic DAC	16174201	15
Caelo	Anionic hydrophilic cream DAB	16179302	1
Caelo	Anionic hydrophilic cream DAB	16179601	21
Caelo	Anionic hydrophilic cream DAB	16179702	13
Caelo	Anionic hydrophilic cream DAB	16179801	20
Caelo	Anionic hydrophilic cream DAB	16179901	9
Caelo	Anionic hydrophilic cream DAB	16180001	18
Caelo	Anionic hydrophilic cream DAB	16180101	3
Caelo	Anionic hydrophilic cream SR…	16188903	1
Caelo	Anionic hydrophilic cream wi…	16191501	7
Caelo	Anionic hydrophilic cream wi…	16191601	50
Caelo	Anionic hydrophilic cream wi…	16191701	15
Caelo	Anionic hydrophilic cream wi…	16191801	10
Caelo	Anionic hydrophilic cream wi…	16191901	13
Caelo	Anionic hydrophilic cream DAB	16200201	1
Caelo	Anionic hydrophilic cream SR…	162115501	1
Caelo	Anionic hydrophilic cream SR…	16215501	12
Caelo	Anionic hydrophilic cream SR…	16215601	9
Caelo	Anionic hydrophilic cream SR…	16215701	1
Caelo	Base cream, hydrophobic DAC	162168	3
Caelo	Base cream, hydrophobic DAC	162170	3
Caelo	Hydrophilic cream, non-ionic…	1622001	1
Caelo	Anionic hydrophilic cream DAB	16220201	1
Caelo	Hydrophilic cream, non-ionic…	16222001	16
Caelo	Hydrophilic cream, non-ionic…	16222102	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	162259601	1
Caelo	Hydrophilic cream, non-ionic...	16231701	1
Caelo	Anionic hydrophilic cream SR...	16245001	1
Caelo	Anionic hydrophilic cream DAB	1624701	1
Caelo	Anionic hydrophilic cream DAB	16249901	2
Caelo	Anionic hydrophilic cream DAB	16249902	9
Caelo	Anionic hydrophilic cream DAB	162500001	1
Caelo	Anionic hydrophilic cream DAB	16250001	41
Caelo	Anionic hydrophilic cream DAB	16250102	3
Caelo	Anionic hydrophilic cream DAB	16250201	16
Caelo	Hydrophilic cream, non-ionic...	16257902	7
Caelo	Anionic hydrophilic cream DAB	16258601	10
Caelo	Anionic hydrophilic cream SR...	16258701	16
Caelo	Anionic hydrophilic cream DAB	16258901	4
Caelo	Anionic hydrophilic cream DAB	16259001	7
Caelo	Anionic hydrophilic cream DAB	1625901	1
Caelo	Anionic hydrophilic cream DAB	16259101	6
Caelo	Anionic hydrophilic cream DAB	16259201	4
Caelo	Anionic hydrophilic cream DAB	16259301	28
Caelo	Anionic hydrophilic cream DAB	16259301-20170704Ma2	1
Caelo	Anionic hydrophilic cream DAB	16259302	6
Caelo	Anionic hydrophilic cream DAB	16259401	20
Caelo	Anionic hydrophilic cream DAB	16259601	13
Caelo	Anionic hydrophilic cream wi...	1625961	1
Caelo	Anionic hydrophilic cream DAB	16259701	19
Caelo	Anionic hydrophilic cream DAB	16259801	16
Caelo	Anionic hydrophilic cream DAB	16259901	20
Caelo	Anionic hydrophilic cream DAB	16259901/1200117	1
Caelo	Anionic hydrophilic cream DAB	1625991	1
Caelo	Anionic hydrophilic cream DAB	16260001	22
Caelo	Anionic hydrophilic cream DAB	16264301	16
Caelo	Anionic hydrophilic cream DAB	16264401	9
Caelo	Anionic hydrophilic cream DAB	1626441	1
Caelo	Anionic hydrophilic cream DAB	16264501	17
Caelo	Anionic hydrophilic cream DAB	16264601	11
Caelo	Anionic hydrophilic cream DAB	16264701	17
Caelo	Anionic hydrophilic cream DAB	16265401	1
Caelo	Anionic hydrophilic cream SR...	16289402	7
Caelo	Anionic hydrophilic cream wi...	16290101	12
Caelo	Anionic hydrophilic cream wi...	16290201	10
Caelo	Hydrophilic cream, non-ionic...	16290301	40
Caelo	Anionic hydrophilic cream wi...	16290302	4
Caelo	Anionic hydrophilic cream wi...	16290401	16
Caelo	Anionic hydrophilic cream wi...	16290501	11
Caelo	Anionic hydrophilic cream wi...	1629051	1
Caelo	Anionic hydrophilic cream wi...	162906301	1
Caelo	Base cream, hydrophobic DAC	16293601	7
Caelo	Base cream, hydrophobic DAC	16293701	45
Caelo	Base cream, hydrophobic DAC	16293701/1020317	1
Caelo	Base cream, hydrophobic DAC	16293901	27
Caelo	Base cream, hydrophobic DAC	16293902	12
Caelo	Anionic hydrophilic cream DAB	163170001	1
Caelo	Anionic hydrophilic cream DAB	16317001	5
Caelo	Anionic hydrophilic cream DAB	16317201	7
Caelo	Hydrophilic cream, non-ionic...	163210701	1
Caelo	Hydrophilic cream, non-ionic...	163214701	1
Caelo	Hydrophilic cream, non-ionic...	16321701	23
Caelo	Anionic hydrophilic cream DAB	16322401	25
Caelo	Anionic hydrophilic cream DAB	16322402	3
Caelo	Anionic hydrophilic cream DAB	16322501	7

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	16322601	6
Caelo	Anionic hydrophilic cream DAB	16322701	5
Caelo	Anionic hydrophilic cream DAB	16322801	30
Caelo	Anionic hydrophilic cream DAB	163228801	1
Caelo	Base cream, hydrophobic DAC	163237	1
Caelo	Anionic hydrophilic cream DAB	1632401	1
Caelo	Anionic hydrophilic cream DAB	16328001	16
Caelo	Anionic hydrophilic cream DAB	16328101	18
Caelo	Anionic hydrophilic cream DAB	16328201	18
Caelo	Anionic hydrophilic cream DAB	16328301	1
Caelo	Anionic hydrophilic cream DAB	16328401	19
Caelo	Base cream, hydrophobic DAC	16330201	20
Caelo	Base cream, hydrophobic DAC	16330203	15
Caelo	Base cream, hydrophobic DAC	16330301	26
Caelo	Base cream, hydrophobic DAC	16330302	4
Caelo	Anionic hydrophilic cream wi...	16332001	12
Caelo	Anionic hydrophilic cream SR...	16332101	9
Caelo	Anionic hydrophilic cream DAB	163322601	1
Caelo	Anionic hydrophilic cream DAB	16359901	1
Caelo	Anionic hydrophilic cream DAB	165057801	1
Caelo	Anionic hydrophilic cream DAB	1659801	1
Caelo	Base cream, hydrophobic DAC	16654403	1
Caelo	Base cream, diluted	1670002	1
Caelo	Anionic hydrophilic cream DAB	1679601	1
Caelo	Hydrophilic cream, non-ionic...	169222102	1
Caelo	Base cream, hydrophobic DAC	16E03-T02-032868	1
Caelo	Base cream, hydrophobic DAC	17(19058401)	1
Caelo	Anionic hydrophilic cream SR...	17000162	1
Caelo	Anionic hydrophilic cream SR...	17000164	3
Caelo	Anionic hydrophilic cream SR...	17000166	1
Caelo	Anionic hydrophilic cream SR...	17000489	1
Caelo	Hydrophilic cream, non-ionic...	17000745	1
Caelo	Hydrophilic cream, non-ionic...	17000749	1
Caelo	Hydrophilic cream, non-ionic...	17000750	1
Caelo	Base cream, hydrophobic DAC	170008	2
Caelo	Base cream, hydrophobic DAC	170009	2
Caelo	Base cream, hydrophobic DAC	170010	1
Caelo	Base cream, hydrophobic DAC	17001093	1
Caelo	Base cream, hydrophobic DAC	17001096	1
Caelo	Anionic hydrophilic cream DAB	17001310	1
Caelo	Anionic hydrophilic cream DAB	17001312	2
Caelo	Anionic hydrophilic cream DAB	17001315	1
Caelo	Anionic hydrophilic cream SR...	17001705	1
Caelo	Anionic hydrophilic cream SR...	17001707	1
Caelo	Hydrophilic cream, non-ionic...	17002159	1
Caelo	Hydrophilic cream, non-ionic...	17002160	1
Caelo	Hydrophilic cream, non-ionic...	1700701	1
Caelo	Hydrophilic cream, non-ionic...	1700750	1
Caelo	Anionic hydrophilic cream SR...	17008901	11
Caelo	Hydrophilic cream, non-ionic...	17009601	11
Caelo	Hydrophilic cream, non-ionic...	17009701	10
Caelo	Hydrophilic cream, non-ionic...	1700971	1
Caelo	Anionic hydrophilic cream SR...	170211701	1
Caelo	Anionic hydrophilic cream wi...	17029901	35
Caelo	Anionic hydrophilic cream wi...	170299015309	1
Caelo	Anionic hydrophilic cream wi...	17029902	12
Caelo	Anionic hydrophilic cream DAB	17030001	18
Caelo	Anionic hydrophilic cream wi...	17030101	22
Caelo	Anionic hydrophilic cream wi...	17030202	9
Caelo	Anionic hydrophilic cream DAB	17030301	56

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream wi…	1703031	1
Caelo	Anionic hydrophilic cream wi…	17030310	1
Caelo	Anionic hydrophilic cream wi…	170318182	1
Caelo	Anionic hydrophilic cream DAB	170411AHC/16264501	1
Caelo	Anionic hydrophilic cream SR…	17041701	1
Caelo	Anionic hydrophilic cream SR…	17041901	6
Caelo	Anionic hydrophilic cream SR…	170419015272	1
Caelo	Anionic hydrophilic cream SR…	17041902	10
Caelo	Hydrophilic cream, non-ionic…	170427NHCSR	1
Caelo	Anionic hydrophilic cream DAB	17045101	10
Caelo	Anionic hydrophilic cream DAB	17045201	14
Caelo	Anionic hydrophilic cream DAB	17045301	22
Caelo	Anionic hydrophilic cream DAB	17045301/5268	1
Caelo	Anionic hydrophilic cream DAB	170453015285	1
Caelo	Anionic hydrophilic cream DAB	17045401	22
Caelo	Anionic hydrophilic cream DAB	17045501	19
Caelo	Anionic hydrophilic cream DAB	170503AHC/16264501	1
Caelo	Anionic hydrophilic cream wi…	170612187	1
Caelo	Anionic hydrophilic cream DAB	170612UEA/16264501	1
Caelo	Anionic hydrophilic cream DAB	17061703	1
Caelo	Anionic hydrophilic cream DAB	170729182	1
Caelo	Base cream, hydrophobic DAC	17073103	4
Caelo	Base cream, hydrophobic DAC	17073201	14
Caelo	Base cream, hydrophobic DAC	17073202	31
Caelo	Anionic hydrophilic cream DAB	170817UEA/17088801	1
Caelo	Anionic hydrophilic cream DAB	17083801	6
Caelo	Anionic hydrophilic cream DAB	17083802	12
Caelo	Anionic hydrophilic cream DAB	170838025326	1
Caelo	Anionic hydrophilic cream DAB	17084001	7
Caelo	Anionic hydrophilic cream DAB	17084101	50
Caelo	Anionic hydrophilic cream DAB	17084201	15
Caelo	Anionic hydrophilic cream DAB	17088501	5
Caelo	Anionic hydrophilic cream DAB	17088601	4
Caelo	Anionic hydrophilic cream DAB	17088701	15
Caelo	Anionic hydrophilic cream DAB	17088801	19
Caelo	Anionic hydrophilic cream DAB	17088901	14
Caelo	Hydrophilic cream, non-ionic…	170909701	1
Caelo	Anionic hydrophilic cream DAB	170919UEA/17143001	1
Caelo	Base cream, hydrophobic DAC	17097709	1
Caelo	Transdermal base cream	1709950/2	2
Caelo	Anionic hydrophilic cream DAB	17101501	16
Caelo	Hydrophilic cream, non-ionic…	171015015313	1
Caelo	Anionic hydrophilic cream SR…	171015015466	1
Caelo	Anionic hydrophilic cream SR…	17101502	17
Caelo	Anionic hydrophilic cream SR…	17101504	1
Caelo	Anionic hydrophilic cream wi…	17102001	6
Caelo	Anionic hydrophilic cream wi…	17102101	10
Caelo	Anionic hydrophilic cream wi…	17102201	23
Caelo	Anionic hydrophilic cream wi…	17102301	20
Caelo	Anionic hydrophilic cream wi…	17102401	18
Caelo	Anionic hydrophilic cream DAB	171107UEA/17143001	1
Caelo	Base cream, hydrophobic DAC	171117HB/17150401	1
Caelo	Anionic hydrophilic cream DAB	17112014B	1
Caelo	Base cream, hydrophobic DAC	171126	1
Caelo	Base cream, hydrophobic DAC	171127	2
Caelo	Base cream, hydrophobic DAC	171128	2
Caelo	Base cream, hydrophobic DAC	17112903	10
Caelo	Base cream, hydrophobic DAC	17113001	2
Caelo	Hydrophilic cream, non-ionic…	17113403	14
Caelo	Anionic hydrophilic cream DAB	171200901	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream, hydrophobic DAC	171219HB/17150401	1
Caelo	Anionic hydrophilic cream DAB	171229UEA/17123001	1
Caelo	Anionic hydrophilic cream DAB	17125802	4
Caelo	Anionic hydrophilic cream DAB	17141901	52
Caelo	Anionic hydrophilic cream DAB	17141901-20180112Ma5	1
Caelo	Anionic hydrophilic cream DAB	171419901	1
Caelo	Anionic hydrophilic cream DAB	17142002	4
Caelo	Anionic hydrophilic cream DAB	171420101	1
Caelo	Anionic hydrophilic cream DAB	17142101	4
Caelo	Anionic hydrophilic cream DAB	17142102	6
Caelo	Anionic hydrophilic cream DAB	17142201	8
Caelo	Anionic hydrophilic cream DAB	17142301	4
Caelo	Anionic hydrophilic cream DAB	17142401	9
Caelo	Anionic hydrophilic cream DAB	17142501	17
Caelo	Anionic hydrophilic cream DAB	17142601	18
Caelo	Anionic hydrophilic cream DAB	171426015334	1
Caelo	Anionic hydrophilic cream DAB	171426015363	1
Caelo	Anionic hydrophilic cream DAB	17142701	14
Caelo	Anionic hydrophilic cream DAB	17142801	24
Caelo	Anionic hydrophilic cream DAB	171428015414	1
Caelo	Anionic hydrophilic cream DAB	17142901	23
Caelo	Anionic hydrophilic cream DAB	17143001	22
Caelo	Anionic hydrophilic cream DAB	17143101	17
Caelo	Anionic hydrophilic cream DAB	17143201	22
Caelo	Anionic hydrophilic cream DAB	17143301	20
Caelo	Anionic hydrophilic cream DAB	17143301/1271117	1
Caelo	Anionic hydrophilic cream DAB	17143401	9
Caelo	Anionic hydrophilic cream DAB	17143501	24
Caelo	Anionic hydrophilic cream DAB	171435021	1
Caelo	Anionic hydrophilic cream DAB	17143510	1
Caelo	Anionic hydrophilic cream DAB	17143601	16
Caelo	Anionic hydrophilic cream DAB	17143701	16
Caelo	Anionic hydrophilic cream DAB	17143801	6
Caelo	Anionic hydrophilic cream DAB	17143802	32
Caelo	Anionic hydrophilic cream DAB	17143802/2220917	1
Caelo	Hydrophilic cream, non-ionic...	17144001	10
Caelo	Hydrophilic cream, non-ionic...	17144003	1
Caelo	Anionic hydrophilic cream DAB	171443501	1
Caelo	Base cream, hydrophobic DAC	1715001	1
Caelo	Base cream, hydrophobic DAC	17150401	32
Caelo	Base cream, hydrophobic DAC	17150401/2041217	1
Caelo	Base cream, hydrophobic DAC	17150402	2
Caelo	Base cream, hydrophobic DAC	1715050	1
Caelo	Base cream, hydrophobic DAC	17150501	15
Caelo	Anionic hydrophilic cream DAB	17153001	1
Caelo	Anionic hydrophilic cream SR...	17153802	1
Caelo	Anionic hydrophilic cream wi...	17156501	6
Caelo	Anionic hydrophilic cream wi...	17156601	15
Caelo	Anionic hydrophilic cream wi...	17156602	12
Caelo	Hydrophilic cream, non-ionic...	17168500	1
Caelo	Hydrophilic cream, non-ionic...	17168502	10
Caelo	Wolff® base half-fat cream	17169002	1
Caelo	Anionic hydrophilic cream SR...	17169301	13
Caelo	Hydrophilic cream, non-ionic...	17175201	1
Caelo	Base cream, hydrophobic DAC	171815	1
Caelo	Base cream, hydrophobic DAC	171816	1
Caelo	Hydrophilic cream, non-ionic...	17183901	13
Caelo	Anionic hydrophilic cream SR...	17184201	7
Caelo	Anionic hydrophilic cream wi...	17185401	14
Caelo	Base cream, hydrophobic DAC	17192002	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	17196713	1
Caelo	Anionic hydrophilic cream DAB	1720001	2
Caelo	Anionic hydrophilic cream DAB	172001801	1
Caelo	Anionic hydrophilic cream DAB	172003703	1
Caelo	Anionic hydrophilic cream DAB	172007001	1
Caelo	Anionic hydrophilic cream DAB	17200701	21
Caelo	Anionic hydrophilic cream DAB	17200701-20180404Ma7	1
Caelo	Anionic hydrophilic cream DAB	17200702	1
Caelo	Anionic hydrophilic cream DAB	17200703	6
Caelo	Anionic hydrophilic cream DAB	17200709	1
Caelo	Anionic hydrophilic cream DAB	17200801	5
Caelo	Anionic hydrophilic cream DAB	17200901	3
Caelo	Anionic hydrophilic cream DAB	17201001	8
Caelo	Anionic hydrophilic cream DAB	17201101	1
Caelo	Anionic hydrophilic cream DAB	17201102	13
Caelo	Anionic hydrophilic cream DAB	17201201	16
Caelo	Anionic hydrophilic cream DAB	17201301	17
Caelo	Anionic hydrophilic cream DAB	17201401	22
Caelo	Anionic hydrophilic cream DAB	17201501	21
Caelo	Anionic hydrophilic cream DAB	172015015495	1
Caelo	Anionic hydrophilic cream DAB	17201601	20
Caelo	Anionic hydrophilic cream DAB	172016015530	1
Caelo	Anionic hydrophilic cream DAB	17201701	27
Caelo	Anionic hydrophilic cream DAB	17201701/5578	1
Caelo	Anionic hydrophilic cream DAB	17201801	24
Caelo	Anionic hydrophilic cream DAB	17201901	24
Caelo	Anionic hydrophilic cream DAB	17201909	1
Caelo	Anionic hydrophilic cream DAB	17202001	26
Caelo	Anionic hydrophilic cream DAB	17202101	22
Caelo	Anionic hydrophilic cream DAB	17202301	19
Caelo	Anionic hydrophilic cream DAB	172031301	1
Caelo	Anionic hydrophilic cream DAB	17208001	1
Caelo	Anionic hydrophilic cream DAB	1720801	1
Caelo	Anionic hydrophilic cream SR...	17211701	4
Caelo	Anionic hydrophilic cream SR...	17211702	11
Caelo	Hydrophilic cream, non-ionic...	17212601	10
Caelo	Hydrophilic cream, non-ionic...	17212602	8
Caelo	Anionic hydrophilic cream DAB	1721401	1
Caelo	Anionic hydrophilic cream SR...	17218102	2
Caelo	Base cream, hydrophobic DAC	172194	2
Caelo	Base cream, hydrophobic DAC	172195	2
Caelo	Anionic hydrophilic cream DAB	17223103	1
Caelo	Anionic hydrophilic cream wi...	17232101	1
Caelo	Anionic hydrophilic cream DAB	1724601	1
Caelo	Anionic hydrophilic cream DAB	1724801	1
Caelo	Anionic hydrophilic cream DAB	17248401	13
Caelo	Anionic hydrophilic cream DAB	17248501	15
Caelo	Anionic hydrophilic cream DAB	17248601	16
Caelo	Anionic hydrophilic cream DAB	17248701	11
Caelo	Anionic hydrophilic cream DAB	17248801	1
Caelo	Base cream, hydrophobic DAC	17255201	27
Caelo	Base cream, hydrophobic DAC	172552010	1
Caelo	Base cream, hydrophobic DAC	17255202	16
Caelo	Base cream, hydrophobic DAC	172552201	1
Caelo	Base cream, hydrophobic DAC	17255301	39
Caelo	Base cream, hydrophobic DAC	17255302	8
Caelo	Base cream, hydrophobic DAC	17255402	8
Caelo	Anionic hydrophilic cream SR...	17256901	18
Caelo	Hydrophilic cream, non-ionic...	17261001	11
Caelo	Hydrophilic cream, non-ionic...	17261002	6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream wi…	17261901	11
Caelo	Anionic hydrophilic cream wi…	17262001	6
Caelo	Anionic hydrophilic cream wi…	17262002	12
Caelo	Anionic hydrophilic cream wi…	17262101	58
Caelo	Anionic hydrophilic cream wi…	17262102	2
Caelo	Anionic hydrophilic cream wi…	17262201	19
Caelo	Anionic hydrophilic cream wi…	172622101	1
Caelo	Anionic hydrophilic cream DAB	17269601	11
Caelo	Anionic hydrophilic cream DAB	17269701	5
Caelo	Anionic hydrophilic cream DAB	17269801	4
Caelo	Anionic hydrophilic cream DAB	17269901	11
Caelo	Anionic hydrophilic cream DAB	17270001	70
Caelo	Anionic hydrophilic cream DAB	1727001	1
Caelo	Anionic hydrophilic cream DAB	17270102	6
Caelo	Anionic hydrophilic cream DAB	17270301	15
Caelo	Anionic hydrophilic cream DAB	17270302	2
Caelo	Anionic hydrophilic cream DAB	17270401	17
Caelo	Anionic hydrophilic cream DAB	17270501	26
Caelo	Hydrophilic cream, non-ionic…	17294002	7
Caelo	Hydrophilic cream, non-ionic…	17294003	1
Caelo	Anionic hydrophilic cream DAB	17294101	1
Caelo	Anionic hydrophilic cream SR…	17294401	7
Caelo	Anionic hydrophilic cream SR…	172944015562	1
Caelo	Anionic hydrophilic cream SR…	17294402	1
Caelo	Anionic hydrophilic cream SR…	17294501	7
Caelo	Anionic hydrophilic cream DAB	17298801	17
Caelo	Anionic hydrophilic cream DAB	17298802	6
Caelo	Anionic hydrophilic cream DAB	17298901	9
Caelo	Anionic hydrophilic cream DAB	17299101	24
Caelo	Anionic hydrophilic cream DAB	172991015608	1
Caelo	Anionic hydrophilic cream DAB	17299201	33
Caelo	Anionic hydrophilic cream DAB	17299301	25
Caelo	Anionic hydrophilic cream DAB	172993015638	1
Caelo	Anionic hydrophilic cream DAB	17299401	11
Caelo	Anionic hydrophilic cream DAB	17299501	30
Caelo	Anionic hydrophilic cream DAB	17299601	36
Caelo	Anionic hydrophilic cream DAB	17299701	35
Caelo	Anionic hydrophilic cream DAB	17299801	30
Caelo	Anionic hydrophilic cream DAB	172999101	1
Caelo	Hydrophilic cream, non-ionic…	17313902	4
Caelo	Hydrophilic cream, non-ionic…	17313903	4
Caelo	Anionic hydrophilic cream SR…	17319502	4
Caelo	Anionic hydrophilic cream SR…	17319503	1
Caelo	Anionic hydrophilic cream DAB	17330401	3
Caelo	Anionic hydrophilic cream wi…	173335401	1
Caelo	Anionic hydrophilic cream wi…	17335301	6
Caelo	Anionic hydrophilic cream wi…	17335401	34
Caelo	Anionic hydrophilic cream wi…	17335402	4
Caelo	Anionic hydrophilic cream wi…	17335501	23
Caelo	Anionic hydrophilic cream wi…	17335601	16
Caelo	Anionic hydrophilic cream wi…	17335701	28
Caelo	Anionic hydrophilic cream wi…	1733601	1
Caelo	Anionic hydrophilic cream wi…	17339401	1
Caelo	Anionic hydrophilic cream wi…	17355701	1
Caelo	Anionic hydrophilic cream wi…	17362201	1
Caelo	Anionic hydrophilic cream DAB	1742701	1
Caelo	Hydrophilic cream, non-ionic…	1744001	1
Caelo	Anionic hydrophilic cream wi…	1756501	1
Caelo	Hydrophilic cream, non-ionic…	1794002	1
Caelo	Anionic hydrophilic cream SR…	17A190618	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream, hydrophobic DAC	17C06-T08-042287	1
Caelo	Base cream, hydrophobic DAC	18(19058401)	1
Caelo	Anionic hydrophilic cream wi...	18/AKD1511	1
Caelo	Anionic hydrophilic cream DAB	18000252	1
Caelo	Anionic hydrophilic cream DAB	18000257	4
Caelo	Anionic hydrophilic cream DAB	18001	1
Caelo	Hydrophilic cream, non-ionic...	18001330	2
Caelo	Hydrophilic cream, non-ionic...	18001331	1
Caelo	Hydrophilic cream, non-ionic...	18001332	1
Caelo	Hydrophilic cream, non-ionic...	18001334	2
Caelo	Anionic hydrophilic cream SR...	18001472	1
Caelo	Anionic hydrophilic cream SR...	18001473	1
Caelo	Anionic hydrophilic cream SR...	18001474	1
Caelo	Anionic hydrophilic cream SR...	18001475	1
Caelo	Anionic hydrophilic cream SR...	18001482	2
Caelo	Anionic hydrophilic cream SR...	18001483	2
Caelo	Anionic hydrophilic cream DAB	18001562	2
Caelo	Base cream, hydrophobic DAC	18002002	1
Caelo	Hydrophilic cream, non-ionic...	18002063	4
Caelo	Hydrophilic cream, non-ionic...	18002064	1
Caelo	Anionic hydrophilic cream SR...	18002223	2
Caelo	Anionic hydrophilic cream SR...	18002226	3
Caelo	Anionic hydrophilic cream SR...	18002227	1
Caelo	Anionic hydrophilic cream DAB	18002356	1
Caelo	Anionic hydrophilic cream DAB	18002360	1
Caelo	Anionic hydrophilic cream DAB	18002361	1
Caelo	Base cream, hydrophobic DAC	18002828	1
Caelo	Base cream, hydrophobic DAC	18002830	1
Caelo	Base cream, hydrophobic DAC	18002831	3
Caelo	Anionic hydrophilic cream DAB	18003588	3
Caelo	Anionic hydrophilic cream SR...	18003778	1
Caelo	Anionic hydrophilic cream SR...	18003781	1
Caelo	Anionic hydrophilic cream SR...	18003783	1
Caelo	Anionic hydrophilic cream DAB	18003784	1
Caelo	Anionic hydrophilic cream DAB	1800401	2
Caelo	Hydrophilic cream, non-ionic...	18004207	1
Caelo	Hydrophilic cream, non-ionic...	18004208	1
Caelo	Hydrophilic cream, non-ionic...	18004212	1
Caelo	Anionic hydrophilic cream DAB	18004835	1
Caelo	Anionic hydrophilic cream SR...	18004840	1
Caelo	Anionic hydrophilic cream DAB	18004842	1
Caelo	Anionic hydrophilic cream SR...	18005158	1
Caelo	Base cream, hydrophobic DAC	18005488	1
Caelo	Hydrophilic cream, non-ionic...	18005874	1
Caelo	Hydrophilic cream, non-ionic...	18005877	1
Caelo	Anionic hydrophilic cream DAB	18006018	2
Caelo	Anionic hydrophilic cream DAB	18006019	1
Caelo	Anionic hydrophilic cream DAB	18006024	1
Caelo	Anionic hydrophilic cream DAB	18006025	1
Caelo	Anionic hydrophilic cream SR...	18006283	1
Caelo	Anionic hydrophilic cream DAB	18007201	1
Caelo	Anionic hydrophilic cream DAB	18010302	9
Caelo	Anionic hydrophilic cream DAB	18010401	59
Caelo	Anionic hydrophilic cream DAB	18010402	5
Caelo	Anionic hydrophilic cream DAB	18010501	6
Caelo	Anionic hydrophilic cream DAB	18010601	6
Caelo	Anionic hydrophilic cream DAB	18010701	6
Caelo	Anionic hydrophilic cream DAB	18010702	16
Caelo	Anionic hydrophilic cream DAB	180107020	1
Caelo	Anionic hydrophilic cream DAB	180107025721	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	180107025746	1
Caelo	Anionic hydrophilic cream DAB	1801072	1
Caelo	Anionic hydrophilic cream DAB	18010801	22
Caelo	Anionic hydrophilic cream DAB	180109001	1
Caelo	Anionic hydrophilic cream DAB	18010901	42
Caelo	Anionic hydrophilic cream DAB	180110001	1
Caelo	Anionic hydrophilic cream DAB	18011001	35
Caelo	Anionic hydrophilic cream DAB	18011011	1
Caelo	Anionic hydrophilic cream DAB	18011101	13
Caelo	Anionic hydrophilic cream DAB	180111015761	1
Caelo	Anionic hydrophilic cream DAB	18011201	7
Caelo	Anionic hydrophilic cream SR...	180167801	1
Caelo	Anionic hydrophilic cream DAB	180220UEA/17200801	1
Caelo	Hydrophilic cream, non-ionic...	180259502	1
Caelo	Anionic hydrophilic cream DAB	18029102	1
Caelo	Hydrophilic cream, non-ionic...	180306UEN/17313902	1
Caelo	Base cream, hydrophobic DAC	180308HB/17255301	1
Caelo	Base cream, hydrophobic DAC	18031505	1
Caelo	Anionic hydrophilic cream DAB	18040401	1
Caelo	Anionic hydrophilic cream SR...	18041104	44
Ĉaelo	Anionic hydrophilic cream SR...	18041104	1
Caelo	Anionic hydrophilic cream SR...	18041105	4
Caelo	Anionic hydrophilic cream SR...	18041106	1
Caelo	Anionic hydrophilic cream wi...	18041401	42
Caelo	Anionic hydrophilic cream DAB	18041402	16
Caelo	Anionic hydrophilic cream wi...	18041501	8
Caelo	Anionic hydrophilic cream wi...	18041502	1
Caelo	Anionic hydrophilic cream DAB	18041601	27
Caelo	Anionic hydrophilic cream DAB	180418MM	1
Caelo	Anionic hydrophilic cream DAB	18045903	3
Caelo	Hydrophilic cream, non-ionic...	18050303	19
Caelo	Hydrophilic cream, non-ionic...	18050304	1
Caelo	Hydrophilic cream, non-ionic...	18050401	8
Caelo	Hydrophilic cream, non-ionic...	18050501	1
Caelo	Base cream, hydrophobic DAC	18051001	55
Caelo	Base cream, hydrophobic DAC	18051101	82
Caelo	Base cream, hydrophobic DAC	18051301	6
Caelo	Base cream, hydrophobic DAC	18051401	14
Caelo	Base cream, hydrophobic DAC	180515	2
Caelo	Hydrophilic cream, non-ionic...	1805401	2
Caelo	Transdermal base cream	1805581/1	2
Caelo	Base cream, hydrophobic DAC	18061805	1
Caelo	Anionic hydrophilic cream DAB	18066601	9
Caelo	Anionic hydrophilic cream DAB	18066701	47
Caelo	Anionic hydrophilic cream DAB	18066703	16
Caelo	Anionic hydrophilic cream DAB	18066802	2
Caelo	Anionic hydrophilic cream DAB	18066803	7
Caelo	Anionic hydrophilic cream DAB	18066901	16
Caelo	Anionic hydrophilic cream DAB	18066902	9
Caelo	Hydrophilic cream, non-ionic...	18067801	48
Caelo	Anionic hydrophilic cream SR...	180678015614	1
Caelo	Anionic hydrophilic cream SR...	180678015671	1
Caelo	Base cream, hydrophobic DAC	180755	8
Caelo	Base cream, hydrophobic DAC	180756	3
Caelo	Base cream, hydrophobic DAC	180860	2
Caelo	Base cream, hydrophobic DAC	18100801	70
Caelo	Base cream, hydrophobic DAC	18100901	11
Caelo	Base cream, hydrophobic DAC	18100902	2
Caelo	Anionic hydrophilic cream DAB	1810402	1
Caelo	Base cream, diluted	18106601	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream, diluted	18106602	1
Caelo	Hydrophilic cream, non-ionic…	18106801	7
Caelo	Hydrophilic cream, non-ionic…	18106901	13
Caelo	Hydrophilic cream, non-ionic…	181069015670	1
Caelo	Hydrophilic cream, non-ionic…	18106903	1
Caelo	Anionic hydrophilic cream SR…	18107001	3
Caelo	Base cream, hydrophobic DAC	1810801	1
Caelo	Anionic hydrophilic cream wi…	18108901	1
Caelo	Anionic hydrophilic cream wi…	18109601	7
Caelo	Anionic hydrophilic cream wi…	18109701	2
Caelo	Anionic hydrophilic cream DAB	18109702	19
Caelo	Anionic hydrophilic cream DAB	18109801	88
Caelo	Anionic hydrophilic cream wi…	18109802	1
Caelo	Anionic hydrophilic cream DAB	18109901	24
Caelo	Anionic hydrophilic cream wi…	181102184	1
Caelo	Anionic hydrophilic cream DAB	1811101	1
Caelo	Anionic hydrophilic cream DAB	18111701	1
Caelo	Anionic hydrophilic cream DAB	18116801	41
Caelo	Anionic hydrophilic cream DAB	18116802	1
Caelo	Anionic hydrophilic cream DAB	18116901	6
Caelo	Anionic hydrophilic cream DAB	181169301	1
Caelo	Anionic hydrophilic cream DAB	18117001	5
Caelo	Anionic hydrophilic cream DAB	18117101	2
Caelo	Anionic hydrophilic cream DAB	18117102	7
Caelo	Anionic hydrophilic cream DAB	18117201	17
Caelo	Base cream, hydrophobic DAC	181194	3
Caelo	Base cream, hydrophobic DAC	181197	2
Caelo	Base cream, hydrophobic DAC	181198	2
Caelo	Base cream, hydrophobic DAC	18119901	23
Caelo	Anionic hydrophilic cream wi…	18120901	1
Caelo	Anionic hydrophilic cream SR…	18121202	1
Caelo	Anionic hydrophilic cream DAB	18129301	1
Caelo	Anionic hydrophilic cream DAB	18139001	1
Caelo	Anionic hydrophilic cream DAB	18139401	10
Caelo	Anionic hydrophilic cream DAB	18139501	25
Caelo	Anionic hydrophilic cream DAB	18139701	1
Caelo	Anionic hydrophilic cream DAB	18139901	8
Caelo	Anionic hydrophilic cream DAB	18140001	3
Caelo	Anionic hydrophilic cream SR…	18147501	34
Caelo	Anionic hydrophilic cream SR…	18147502	30
Caelo	Anionic hydrophilic cream DAB	1814E2540	1
Caelo	Anionic hydrophilic cream DAB	18159901	3
Caelo	Anionic hydrophilic cream DAB	18160001	6
Caelo	Anionic hydrophilic cream DAB	181600010	1
Caelo	Anionic hydrophilic cream DAB	18160101	47
Caelo	Anionic hydrophilic cream DAB	18160201	2
Caelo	Anionic hydrophilic cream DAB	18160202	4
Caelo	Anionic hydrophilic cream DAB	18160301	12
Caelo	Anionic hydrophilic cream DAB	18160302	5
Caelo	Anionic hydrophilic cream DAB	18160402	5
Caelo	Anionic hydrophilic cream DAB	181669301	1
Caelo	Hydrophilic cream, non-ionic…	1816801	1
Caelo	Anionic hydrophilic cream DAB	18168501	14
Caelo	Anionic hydrophilic cream DAB	18168601	12
Caelo	Anionic hydrophilic cream DAB	18168701	28
Caelo	Anionic hydrophilic cream DAB	18168801	20
Caelo	Anionic hydrophilic cream DAB	18168901	11
Caelo	Anionic hydrophilic cream DAB	18169001	17
Caelo	Anionic hydrophilic cream DAB	18169101	22
Caelo	Anionic hydrophilic cream DAB	18169201	7

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	18169301	19
Caelo	Anionic hydrophilic cream DAB	18169401	27
Caelo	Anionic hydrophilic cream DAB	18169501	16
Caelo	Hydrophilic cream, non-ionic…	18172501	1
Caelo	Base cream, hydrophobic DAC	18173902	23
Caelo	Base cream, hydrophobic DAC	18173903	57
Caelo	Base cream, hydrophobic DAC	18174002	1
Caelo	Base cream, hydrophobic DAC	18174101	13
Caelo	Hydrophilic cream, non-ionic…	18175201	20
Caelo	Hydrophilic cream, non-ionic…	18175301	13
Caelo	Anionic hydrophilic cream SR…	18176103	27
Caelo	Anionic hydrophilic cream wi…	18180801	2
Caelo	Anionic hydrophilic cream DAB	18180802	13
Caelo	Anionic hydrophilic cream wi…	18180901	35
Caelo	Anionic hydrophilic cream wi…	18180902	22
Caelo	Anionic hydrophilic cream wi…	18181001	24
Caelo	Anionic hydrophilic cream wi…	18189901	1
Caelo	Base cream, hydrophobic DAC	18193301	1
Caelo	Anionic hydrophilic cream wi…	1819801	1
Caelo	Anionic hydrophilic cream wi…	1820802	2
Caelo	Anionic hydrophilic cream DAB	18210702	1
Caelo	Base cream, hydrophobic DAC	18212501	1
Caelo	Hydrophilic cream, non-ionic…	18218001	18
Caelo	Hydrophilic cream, non-ionic…	18218002	2
Caelo	Anionic hydrophilic cream SR…	18218101	18
Caelo	Anionic hydrophilic cream SR…	18218102	18
Caelo	Anionic hydrophilic cream SR…	18218103	5
Caelo	Base cream, hydrophobic DAC	182220	1
Caelo	Base cream, diluted	18240802	1
Caelo	Base cream, hydrophobic DAC	18242501	26
Caelo	Base cream, hydrophobic DAC	18242502	5
Caelo	Base cream, hydrophobic DAC	18242601	33
Caelo	Base cream, hydrophobic DAC	18242601P190225-2	1
Caelo	Base cream, hydrophobic DAC	18242603	8
Caelo	Anionic hydrophilic cream DAB	18242901	16
Caelo	Anionic hydrophilic cream DAB	18243001	9
Caelo	Anionic hydrophilic cream DAB	18243101	5
Caelo	Anionic hydrophilic cream DAB	18243201	19
Caelo	Anionic hydrophilic cream DAB	18243301	43
Caelo	Anionic hydrophilic cream DAB	18243401	8
Caelo	Anionic hydrophilic cream DAB	18243402	59
Caelo	Anionic hydrophilic cream DAB	1824340202	1
Caelo	Anionic hydrophilic cream DAB	18243501	31
Caelo	Anionic hydrophilic cream DAB	182443402	1
Caelo	Anionic hydrophilic cream DAB	1824501	1
Caelo	Base cream, hydrophobic DAC	1824502	1
Caelo	Base cream, hydrophobic DAC	1824601	2
Caelo	Anionic hydrophilic cream wi…	18248101	53
Caelo	Anionic hydrophilic cream wi…	18248102	5
Caelo	Anionic hydrophilic cream wi…	18248201	1
Caelo	Anionic hydrophilic cream wi…	18248202	10
Caelo	Anionic hydrophilic cream wi…	18248301	18
Caelo	Hydrophilic cream, non-ionic…	1825901	1
Caelo	Hydrophilic cream, non-ionic…	18259501	21
Caelo	Hydrophilic cream, non-ionic…	18259502	28
Caelo	Hydrophilic cream, non-ionic…	18259504	3
Caelo	Anionic hydrophilic cream DAB	18274102	2
Caelo	Base cream, hydrophobic DAC	18286701	39
Caelo	Base cream, hydrophobic DAC	18286702	30
Caelo	Base cream, hydrophobic DAC	18286802	11

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	18292401	1
Caelo	Anionic hydrophilic cream DAB	18296301	1
Caelo	Anionic hydrophilic cream DAB	18297301	26
Caelo	Anionic hydrophilic cream DAB	18297401	20
Caelo	Anionic hydrophilic cream wi...	18297501	49
Caelo	Anionic hydrophilic cream wi...	18297502	2
Caelo	Anionic hydrophilic cream DAB	18297901	8
Caelo	Anionic hydrophilic cream DAB	18297902	46
Caelo	Anionic hydrophilic cream DAB	18297903	1
Caelo	Anionic hydrophilic cream DAB	18298001	10
Caelo	Anionic hydrophilic cream DAB	18298101	27
Caelo	Anionic hydrophilic cream DAB	18298201	24
Caelo	Anionic hydrophilic cream DAB	18298301	15
Caelo	Anionic hydrophilic cream DAB	18298401	29
Caelo	Anionic hydrophilic cream DAB	18298502	7
Caelo	Anionic hydrophilic cream DAB	18298601	15
Caelo	Anionic hydrophilic cream DAB	18298601int2205C	1
Caelo	Anionic hydrophilic cream DAB	18298701	21
Caelo	Anionic hydrophilic cream DAB	18298801	25
Caelo	Anionic hydrophilic cream DAB	18298901	36
Caelo	Anionic hydrophilic cream DAB	18299001	21
Caelo	Anionic hydrophilic cream DAB	18299101	24
Caelo	Anionic hydrophilic cream SR...	18302501	23
Caelo	Anionic hydrophilic cream SR...	18302503	1
Caelo	Anionic hydrophilic cream DAB	183139501	1
Caelo	Anionic hydrophilic cream wi...	18320801	2
Caelo	Anionic hydrophilic cream wi...	18320802	24
Caelo	Anionic hydrophilic cream wi...	18320901	28
Caelo	Anionic hydrophilic cream DAB	18330004	1
Caelo	Hydrophilic cream, non-ionic...	184147501	1
Caelo	Anionic hydrophilic cream wi...	184248101	1
Caelo	Anionic hydrophilic cream DAB	18469301	1
Caelo	Anionic hydrophilic cream SR...	1847502	1
Caelo	Base cream, hydrophobic DAC	18551001	1
Caelo	Anionic hydrophilic cream SR...	1867801	1
Caelo	Anionic hydrophilic cream wi...	18920801	1
Caelo	Anionic hydrophilic cream DAB	1897901	1
Caelo	Anionic hydrophilic cream SR...	18A040516	1
Caelo	Base cream, hydrophobic DAC	18C23-T04-054141	3
Caelo	Base cream, hydrophobic DAC	18G31-T09-058736	3
Caelo	Base cream, hydrophobic DAC	19(20003445002)	1
Caelo	Anionic hydrophilic cream SR...	190000532003	1
Caelo	Base cream, hydrophobic DAC	190002002	1
Caelo	Hydrophilic cream, non-ionic...	19000219	2
Caelo	Hydrophilic cream, non-ionic...	19000220	2
Caelo	Hydrophilic cream, non-ionic...	19000222	1
Caelo	Anionic hydrophilic cream DAB	190003001	1
Caelo	Base cream, hydrophobic DAC	19000414001	21
Caelo	Base cream, hydrophobic DAC	190004150003	1
Caelo	Base cream, hydrophobic DAC	19000415001	31
Caelo	Base cream, hydrophobic DAC	19000415003	14
Caelo	Base cream, hydrophobic DAC	1900041503	1
Caelo	Anionic hydrophilic cream DAB	19000532003	5
Caelo	Anionic hydrophilic cream DAB	19000622	1
Caelo	Base cream, diluted	19000843001	3
Caelo	Base cream, diluted	19000843002	11
Caelo	Base cream, hydrophobic DAC	19001127	2
Caelo	Base cream, hydrophobic DAC	19001128	1
Caelo	Base cream, hydrophobic DAC	19002001	22
Caelo	Base cream, hydrophobic DAC	19002002	34

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Base cream, hydrophobic DAC	19002003	4
Caelo	Anionic hydrophilic cream DAB	19002194	2
Caelo	Anionic hydrophilic cream DAB	19002200	2
Caelo	Anionic hydrophilic cream DAB	19002502	18
Caelo	Anionic hydrophilic cream DAB	19002582	1
Caelo	Anionic hydrophilic cream DAB	19002601	8
Caelo	Anionic hydrophilic cream DAB	19002702	5
Caelo	Anionic hydrophilic cream DAB	19002703	11
Caelo	Anionic hydrophilic cream DAB	19002801	24
Caelo	Anionic hydrophilic cream DAB	19002802	4
Caelo	Anionic hydrophilic cream DAB	19002901	32
Caelo	Anionic hydrophilic cream DAB	19003001	26
Caelo	Anionic hydrophilic cream SR...	19003572	1
Caelo	Hydrophilic cream, non-ionic...	19003821	1
Caelo	Anionic hydrophilic cream DAB	19003988	1
Caelo	Anionic hydrophilic cream DAB	19003989	2
Caelo	Hydrophilic cream, non-ionic...	19006525	1
Caelo	Anionic hydrophilic cream SR...	190093001	1
Caelo	Base cream, hydrophobic DAC	190206	6
Caelo	Anionic hydrophilic cream SR...	19021401	31
Caelo	Anionic hydrophilic cream SR...	19021402	19
Caelo	Anionic hydrophilic cream SR...	19021404	7
Caelo	Anionic hydrophilic cream DAB	19021812	1
Caelo	Anionic hydrophilic cream wi...	19021814	1
Caelo	Anionic hydrophilic cream SR...	190240002	1
Caelo	Anionic hydrophilic cream SR...	190240103	1
Caelo	Base cream, diluted	19025402	1
Caelo	Base cream, diluted	19025901	1
Caelo	Base cream, diluted	19025902	2
Caelo	Anionic hydrophilic cream DAB	19026201	1
Caelo	Anionic hydrophilic cream wi...	19027401	2
Caelo	Anionic hydrophilic cream wi...	19027501	24
Caelo	Anionic hydrophilic cream wi...	19027502	18
Caelo	Anionic hydrophilic cream wi...	190275022	1
Caelo	Anionic hydrophilic cream wi...	19027601	20
Caelo	Base cream, hydrophobic DAC	19032002	5
Caelo	Hydrophilic cream, non-ionic...	190331203	1
Caelo	Anionic hydrophilic cream wi...	190382703	1
Caelo	Base cream, hydrophobic DAC	1905401	1
Caelo	Hydrophilic cream, non-ionic...	19055601	25
Caelo	Hydrophilic cream, non-ionic...	19055602	13
Caelo	Hydrophilic cream, non-ionic...	19055603	2
Caelo	Base cream, hydrophobic DAC	19058301	50
Caelo	Base cream, hydrophobic DAC	19058301P-190926-4	1
Caelo	Base cream, hydrophobic DAC	19058302	2
Caelo	Base cream, hydrophobic DAC	19058401	33
Caelo	Base cream, hydrophobic DAC	19058402	13
Caelo	Base cream, hydrophobic DAC	19058501	13
Caelo	Anionic hydrophilic cream DAB	19061001	1
Caelo	Base cream, hydrophobic DAC	190637	1
Caelo	Base cream, hydrophobic DAC	190640	1
Caelo	Anionic hydrophilic cream wi...	190702806	1
Caelo	Anionic hydrophilic cream DAB	19071501	7
Caelo	Anionic hydrophilic cream DAB	19071601	14
Caelo	Anionic hydrophilic cream DAB	19071701	8
Caelo	Anionic hydrophilic cream DAB	19071801	7
Caelo	Anionic hydrophilic cream DAB	19071903	16
Caelo	Anionic hydrophilic cream DAB	19071904	1
Caelo	Anionic hydrophilic cream DAB	19072001	62
Caelo	Anionic hydrophilic cream DAB	19072002	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	19072101	26
Caelo	Anionic hydrophilic cream DAB	19072102	1
Caelo	Anionic hydrophilic cream DAB	19072201	5
Caelo	Anionic hydrophilic cream DAB	19072301	28
Caelo	Anionic hydrophilic cream DAB	19072401	36
Caelo	Anionic hydrophilic cream DAB	19072501	13
Caelo	Anionic hydrophilic cream DAB	19072601	29
Caelo	Anionic hydrophilic cream DAB	19072701	18
Caelo	Anionic hydrophilic cream DAB	19072801	26
Caelo	Anionic hydrophilic cream DAB	19072901	25
Caelo	Anionic hydrophilic cream DAB	19072907	1
Caelo	Anionic hydrophilic cream SR...	19093001	25
Caelo	Anionic hydrophilic cream SR...	19093002	5
Caelo	Anionic hydrophilic cream wi...	19093601	4
Caelo	Anionic hydrophilic cream wi...	19093602	14
Caelo	Anionic hydrophilic cream wi...	19093701	54
Caelo	Anionic hydrophilic cream wi...	19093702	9
Caelo	Anionic hydrophilic cream wi...	19093801	21
Caelo	Anionic hydrophilic cream wi...	19093901	21
Caelo	Anionic hydrophilic cream wi...	190950409	1
Caelo	Anionic hydrophilic cream DAB	19101301	1
Caelo	Base cream, diluted	19105602	3
Caelo	Base cream, diluted	19105701	4
Caelo	Base cream, hydrophobic DAC	19115901	18
Caelo	Anionic hydrophilic cream wi...	1912001	1
Caelo	Anionic hydrophilic cream SR...	19123702	1
Caelo	Anionic hydrophilic cream SR...	19123802	8
Caelo	Anionic hydrophilic cream DAB	1913Q-02540	1
Caelo	Anionic hydrophilic cream DAB	1913R-02540	1
Caelo	Base cream, hydrophobic DAC	19145601	31
Caelo	Base cream, hydrophobic DAC	19145602	25
Caelo	Base cream, hydrophobic DAC	19145602P200206-5	1
Caelo	Base cream, hydrophobic DAC	19145603	13
Caelo	Base cream, hydrophobic DAC	191458602	1
Caelo	Base cream, hydrophobic DAC	1914602	1
Caelo	Base cream, hydrophobic DAC	191489	1
Caelo	Anionic hydrophilic cream DAB	19161001	13
Caelo	Anionic hydrophilic cream DAB	19161002	3
Caelo	Anionic hydrophilic cream DAB	1916108	1
Caelo	Anionic hydrophilic cream DAB	19161101	12
Caelo	Anionic hydrophilic cream DAB	19161201	15
Caelo	Anionic hydrophilic cream DAB	19161301	8
Caelo	Anionic hydrophilic cream DAB	19161401	6
Caelo	Anionic hydrophilic cream DAB	19161501	12
Caelo	Anionic hydrophilic cream DAB	19161601	8
Caelo	Anionic hydrophilic cream DAB	19161701	10
Caelo	Anionic hydrophilic cream DAB	19161801	16
Caelo	Anionic hydrophilic cream DAB	19161901	39
Caelo	Anionic hydrophilic cream DAB	19162001	32
Caelo	Anionic hydrophilic cream DAB	19162201	1
Caelo	Anionic hydrophilic cream DAB	19162301	2
Caelo	Anionic hydrophilic cream DAB	19162401	4
Caelo	Anionic hydrophilic cream DAB	19162501	4
Caelo	Anionic hydrophilic cream DAB	19162601	9
Caelo	Anionic hydrophilic cream DAB	19167901	1
Caelo	Hydrophilic cream, non-ionic...	19176501	18
Caelo	Hydrophilic cream, non-ionic...	19176502	11
Caelo	Hydrophilic cream, non-ionic...	19176504	3
Caelo	Anionic hydrophilic cream SR...	19177102	7
Caelo	Anionic hydrophilic cream SR...	19177103	8

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic cream, non-ionic…	19177104	8
Caelo	Anionic hydrophilic cream wi…	19182001	1
Caelo	Base cream, diluted	19190402	4
Caelo	Anionic hydrophilic cream wi…	19191901	3
Caelo	Anionic hydrophilic cream wi…	19192001	48
Caelo	Anionic hydrophilic cream wi…	19192002	4
Caelo	Anionic hydrophilic cream wi…	19192101	17
Caelo	Anionic hydrophilic cream wi…	19192201	30
Caelo	Anionic hydrophilic cream DAB	19192301	21
Caelo	Anionic hydrophilic cream wi…	191923012x	1
Caelo	Base cream, hydrophobic DAC	192005101	1
Caelo	Anionic hydrophilic cream DAB	192036301	1
Caelo	Base cream, hydrophobic DAC	19204801	40
Caelo	Base cream, hydrophobic DAC	19204801P-200331-4	1
Caelo	Base cream, hydrophobic DAC	19204802	13
Caelo	Base cream, hydrophobic DAC	19205003	1
Caelo	Base cream, hydrophobic DAC	19205101	12
Caelo	Anionic hydrophilic cream DAB	19206001	18
Caelo	Anionic hydrophilic cream DAB	19206101	24
Caelo	Anionic hydrophilic cream DAB	19206201	22
Caelo	Anionic hydrophilic cream DAB	19206301	22
Caelo	Anionic hydrophilic cream DAB	19206401	25
Caelo	Anionic hydrophilic cream DAB	19206701	19
Caelo	Anionic hydrophilic cream DAB	19206801	24
Caelo	Anionic hydrophilic cream DAB	19206901	6
Caelo	Anionic hydrophilic cream DAB	19207001	2
Caelo	Anionic hydrophilic cream DAB	1920701	1
Caelo	Anionic hydrophilic cream DAB	19207101	5
Caelo	Anionic hydrophilic cream DAB	19207102	9
Caelo	Base cream, hydrophobic DAC	192209001	1
Caelo	Base cream, diluted	19229801	1
Caelo	Base cream, diluted	19229902	5
Caelo	Anionic hydrophilic cream SR…	19240001	14
Caelo	Anionic hydrophilic cream SR…	19240002	48
Caelo	Anionic hydrophilic cream SR…	1924001	1
Caelo	Anionic hydrophilic cream DAB	19240103	7
Caelo	Base cream, diluted	19253701	8
Caelo	Base cream, hydrophobic DAC	1925661	1
Caelo	Base cream, hydrophobic DAC	1925681	2
Caelo	Anionic hydrophilic cream DAB	19259301	1
Caelo	Anionic hydrophilic cream wi…	19268203	26
Caelo	Anionic hydrophilic cream wi…	19268204	2
Caelo	Anionic hydrophilic cream wi…	19268401	10
Caelo	Anionic hydrophilic cream wi…	19268502	3
Caelo	Anionic hydrophilic cream DAB	19272301	4
Caelo	Anionic hydrophilic cream DAB	19272401	5
Caelo	Anionic hydrophilic cream DAB	19272505	12
Caelo	Anionic hydrophilic cream DAB	19272601	24
Caelo	Anionic hydrophilic cream DAB	19272701	27
Caelo	Anionic hydrophilic cream DAB	19272901	22
Caelo	Anionic hydrophilic cream DAB	1927300	2
Caelo	Anionic hydrophilic cream DAB	19273001	4
Caelo	Anionic hydrophilic cream DAB	19273002	45
Caelo	Anionic hydrophilic cream DAB	19273003	8
Caelo	Base cream, diluted	19278901	5
Caelo	Base cream, hydrophobic DAC	195841	1
Caelo	Anionic hydrophilic cream DAB	196161001	1
Caelo	Anionic hydrophilic cream wi…	1968204	1
Caelo	Anionic hydrophilic cream DAB	1971501	1
Caelo	Hydrophilic cream, non-ionic…	1A020119	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophlic cream wit…	1B080118	1
Caelo	Base cream, hydrophobic DAC	20(21000396001)	1
Caelo	Anionic hydrophilic cream DAB	200000027001	1
Caelo	Anionic hydrophilic cream DAB	200000029001	1
Caelo	Anionic hydrophilic cream DAB	20000002901	1
Caelo	Anionic hydrophilic cream DAB	200000032001	1
Caelo	Anionic hydrophilic cream DAB	200000033001	1
Caelo	Anionic hydrophilic cream DAB	200000037001	1
Caelo	Base cream, diluted	2000000701002	1
Caelo	Anionic hydrophilic cream DAB	2000000927001	1
Caelo	Anionic hydrophilic cream wi…	200000190001	1
Caelo	Anionic hydrophilic cream wi…	20000019002	1
Caelo	Anionic hydrophilic cream wi…	200000193001	2
Caelo	Anionic hydrophilic cream wi…	200000193002	1
Caelo	Anionic hydrophilic cream DAB	20000026	1
Caelo	Anionic hydrophilic cream DAB	20000027001	15
Caelo	Anionic hydrophilic cream DAB	20000027002	2
Caelo	Anionic hydrophilic cream DAB	20000028001	21
Caelo	Anionic hydrophilic cream DAB	2000002801	1
Caelo	Anionic hydrophilic cream DAB	20000029001	22
Caelo	Anionic hydrophilic cream DAB	2000002901	1
Caelo	Anionic hydrophilic cream DAB	200000311001	1
Caelo	Anionic hydrophilic cream DAB	200000314001	1
Caelo	Anionic hydrophilic cream DAB	200000317001	1
Caelo	Anionic hydrophilic cream DAB	200000318001	2
Caelo	Anionic hydrophilic cream DAB	20000032001	10
Caelo	Anionic hydrophilic cream DAB	2000003201	1
Caelo	Anionic hydrophilic cream DAB	20000033001	3
Caelo	Anionic hydrophilic cream DAB	20000035	1
Caelo	Anionic hydrophilic cream DAB	20000037001	5
Caelo	Anionic hydrophilic cream DAB	20000038001	12
Caelo	Anionic hydrophilic cream DAB	200000402001	1
Caelo	Base cream, hydrophobic DAC	200000425001	1
Caelo	Base cream, hydrophobic DAC	200000427001	1
Caelo	Anionic hydrophilic cream DAB	20000046001	1
Caelo	Anionic hydrophilic cream DAB	20000046003	5
Caelo	Anionic hydrophilic cream SR…	200000522001	1
Caelo	Anionic hydrophilic cream SR…	200000916003	1
Caelo	Anionic hydrophilic cream DAB	200000924001	2
Caelo	Anionic hydrophilic cream DAB	200000924002	1
Caelo	Anionic hydrophilic cream DAB	200000925001	1
Caelo	Anionic hydrophilic cream DAB	200000927001	2
Caelo	Anionic hydrophilic cream DAB	200000928001	1
Caelo	Anionic hydrophilic cream DAB	200000929001	1
Caelo	Anionic hydrophilic cream DAB	200000931001	1
Caelo	Anionic hydrophilic cream wi…	200001250001	1
Caelo	Anionic hydrophilic cream wi…	200001251001	1
Caelo	Base cream, hydrophobic DAC	200001592001	2
Caelo	Base cream, hydrophobic DAC	200001593002	2
Caelo	Anionic hydrophilic cream SR…	200001781004	1
Caelo	Anionic hydrophilic cream wi…	20000189001	2
Caelo	Anionic hydrophilic cream wi…	2000018901	1
Caelo	Anionic hydrophilic cream wi…	20000190001	23
Caelo	Anionic hydrophilic cream wi…	2000019001	1
Caelo	Anionic hydrophilic cream wi…	20000191001	20
Caelo	Anionic hydrophilic cream wi…	20000192001	25
Caelo	Anionic hydrophilic cream wi…	20000193001	6
Caelo	Anionic hydrophilic cream wi…	20000193002	37
Caelo	Anionic hydrophilic cream wi…	200001979001	1
Caelo	Anionic hydrophilic cream DAB	200002080001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	200002082001	2
Caelo	Hydrophilic cream, non-ionic…	200002461003	1
Caelo	Hydrophilic cream, non-ionic…	200002461004	2
Caelo	Anionic hydrophilic cream DAB	2000027001	1
Caelo	Base cream, hydrophobic DAC	2000028520001	1
Caelo	Base cream, hydrophobic DAC	200002854003	2
Caelo	Anionic hydrophilic cream DAB	2000029001	1
Caelo	Anionic hydrophilic cream DAB	200002946001	1
Caelo	Anionic hydrophilic cream DAB	200002947001	1
Caelo	Anionic hydrophilic cream DAB	2000030001	1
Caelo	Anionic hydrophilic cream SR…	200003015003	1
Caelo	Anionic hydrophilic cream DAB	2000031001	1
Caelo	Anionic hydrophilic cream DAB	20000311001	22
Caelo	Anionic hydrophilic cream DAB	20000312001	18
Caelo	Anionic hydrophilic cream DAB	20000313001	22
Caelo	Anionic hydrophilic cream DAB	20000314001	13
Caelo	Anionic hydrophilic cream DAB	20000315001	14
Caelo	Anionic hydrophilic cream DAB	20000316001	10
Caelo	Anionic hydrophilic cream DAB	20000317001	15
Caelo	Anionic hydrophilic cream DAB	20000318001	22
Caelo	Anionic hydrophilic cream DAB	20000319001	10
Caelo	Anionic hydrophilic cream DAB	20000320001	25
Caelo	Anionic hydrophilic cream DAB	2000032001	2
Caelo	Anionic hydrophilic cream DAB	200003216001	1
Caelo	Anionic hydrophilic cream wi…	200003307001	1
Caelo	Base cream, hydrophobic DAC	200003445001/14042102	1
Caelo	Base cream, hydrophobic DAC	200003445003	1
Caelo	Anionic hydrophilic cream DAB	2000038001	1
Caelo	Anionic hydrophilic cream DAB	20000399001	9
Caelo	Anionic hydrophilic cream DAB	20000400001	5
Caelo	Anionic hydrophilic cream DAB	20000401001	2
Caelo	Anionic hydrophilic cream DAB	2000040101	1
Caelo	Anionic hydrophilic cream DAB	20000402001	5
Caelo	Anionic hydrophilic cream DAB	20000403001	5
Caelo	Base cream, hydrophobic DAC	20000425001	22
Caelo	Base cream, hydrophobic DAC	20000425001P-200602	1
Caelo	Base cream, hydrophobic DAC	20000426001	59
Caelo	Base cream, hydrophobic DAC	20000426002	3
Caelo	Base cream, hydrophobic DAC	20000426002P200709-7	1
Caelo	Base cream, hydrophobic DAC	200004266001	1
Caelo	Base cream, hydrophobic DAC	20000427001	62
Caelo	Base cream, hydrophobic DAC	20000428001	2
Caelo	Anionic hydrophilic cream DAB	200004461001	1
Caelo	Base cream, hydrophobic DAC	20000448	2
Caelo	Anionic hydrophilic cream DAB	2000049001	1
Caelo	Anionic hydrophilic cream DAB	20000494001	29
Caelo	Anionic hydrophilic cream SR…	20000522001	26
Caelo	Anionic hydrophilic cream SR…	20000522002	1
Caelo	Hydrophilic cream, non-ionic…	20000522003	30
Caelo	Base cream, diluted	20000701001	2
Caelo	Base cream, diluted	20000701002	8
Caelo	Anionic hydrophilic cream SR…	20000719	1
Caelo	Anionic hydrophilic cream DAB	20000904002	1
Caelo	Anionic hydrophilic cream SR…	20000916003	10
Caelo	Anionic hydrophilic cream SR…	20000916004	17
Caelo	Anionic hydrophilic cream DAB	20000916005	3
Caelo	Anionic hydrophilic cream DAB	200009206001	1
Caelo	Anionic hydrophilic cream DAB	20000924001	10
Caelo	Anionic hydrophilic cream DAB	20000924002	28
Caelo	Anionic hydrophilic cream DAB	20000925001	15

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	2000092501	1
Caelo	Anionic hydrophilic cream DAB	20000926001	21
Caelo	Anionic hydrophilic cream DAB	20000927001	21
Caelo	Anionic hydrophilic cream DAB	20000928001	18
Caelo	Anionic hydrophilic cream DAB	2000092801	1
Caelo	Anionic hydrophilic cream DAB	20000929001	19
Caelo	Anionic hydrophilic cream DAB	20000930001	17
Caelo	Anionic hydrophilic cream DAB	20000931001	17
Caelo	Anionic hydrophilic cream DAB	20000932001	22
Caelo	Anionic hydrophilic cream DAB	2000093201	1
Caelo	Hydrophilic cream, non-ionic…	20000949002	1
Caelo	Anionic hydrophilic cream DAB	2000095001	1
Caelo	Anionic hydrophilic cream SR…	200010034001	1
Caelo	Hydrophilic cream, non-ionic…	20001015	1
Caelo	Anionic hydrophilic cream SR…	20001034001	11
Caelo	Anionic hydrophilic cream SR…	2000103401	1
Caelo	Base cream, diluted	20001059001	7
Caelo	Base cream, diluted	20001059002	2
Caelo	Anionic hydrophilic cream wi…	200011979001	1
Caelo	Base cream, hydrophobic DAC	20001231	1
Caelo	Anionic hydrophilic cream wi…	2000124600	1
Caelo	Anionic hydrophilic cream wi…	20001246001	2
Caelo	Anionic hydrophilic cream wi…	20001247002	3
Caelo	Anionic hydrophilic cream wi…	20001248001	11
Caelo	Anionic hydrophilic cream wi…	20001249001	8
Caelo	Anionic hydrophilic cream wi…	20001250001	12
Caelo	Anionic hydrophilic cream wi…	20001251001	61
Caelo	Anionic hydrophilic cream DAB	20001452001	3
Caelo	Anionic hydrophilic cream DAB	20001453002	1
Caelo	Anionic hydrophilic cream DAB	20001454001	4
Caelo	Anionic hydrophilic cream DAB	200014540010119720	1
Caelo	Anionic hydrophilic cream DAB	20001455001	1
Caelo	Anionic hydrophilic cream DAB	20001469001	5
Caelo	Anionic hydrophilic cream DAB	20001470001	5
Caelo	Anionic hydrophilic cream DAB	2000147001	1
Caelo	Anionic hydrophilic cream DAB	20001471001	19
Caelo	Anionic hydrophilic cream DAB	20001474001	10
Caelo	Anionic hydrophilic cream DAB	20001475001	21
Caelo	Anionic hydrophilic cream DAB	20001480001	14
Caelo	Anionic hydrophilic cream DAB	20001480002	6
Caelo	Base cream, hydrophobic DAC	20001590001	12
Caelo	Base cream, hydrophobic DAC	2000159001	1
Caelo	Base cream, hydrophobic DAC	20001591001	18
Caelo	Base cream, hydrophobic DAC	20001592001	59
Caelo	Base cream, hydrophobic DAC	20001593002	33
Caelo	Base cream, diluted	20001667001	12
Caelo	Base cream, diluted	20001668001	3
Caelo	Base cream, diluted	20001669001	1
Caelo	Base cream, diluted	20001670002	20
Caelo	Base cream, diluted	20001670003	2
Caelo	Anionic hydrophilic cream DAB	20001675001	8
Caelo	Anionic hydrophilic cream DAB	20001675002	38
Caelo	Anionic hydrophilic cream DAB	20001676001	6
Caelo	Anionic hydrophilic cream DAB	20001676002	15
Caelo	Anionic hydrophilic cream SR…	2000178004	1
Caelo	Anionic hydrophilic cream SR…	20001781001	1
Caelo	Anionic hydrophilic cream SR…	200017810014	1
Caelo	Anionic hydrophilic cream SR…	20001781003	11
Caelo	Anionic hydrophilic cream SR…	20001781004	11
Caelo	Anionic hydrophilic cream wi…	2000190001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream wi…	2000191001	2
Caelo	Anionic hydrophilic cream wi…	2000193002	2
Caelo	Anionic hydrophilic cream wi…	20001978001	11
Caelo	Anionic hydrophilic cream wi…	20001979001	22
Caelo	Anionic hydrophilic cream wi…	20001979002	3
Caelo	Anionic hydrophilic cream DAB	20002080001	21
Caelo	Anionic hydrophilic cream DAB	2000208001	1
Caelo	Anionic hydrophilic cream DAB	20002081001	10
Caelo	Anionic hydrophilic cream DAB	20002082001	14
Caelo	Anionic hydrophilic cream DAB	20002082001/0721	1
Caelo	Anionic hydrophilic cream wi…	20002257001	6
Caelo	Anionic hydrophilic cream SR…	200023005	1
Caelo	Anionic hydrophilic cream SR…	20002423003	1
Caelo	Anionic hydrophilic cream SR…	20002423004	10
Caelo	Hydrophilic cream, non-ionic…	20002423005	7
Caelo	Hydrophilic cream, non-ionic…	20002461001	1
Caelo	Hydrophilic cream, non-ionic…	20002461003	17
Caelo	Hydrophilic cream, non-ionic…	20002461004	9
Caelo	Base cream, diluted	20002515002	2
Caelo	Base cream, diluted	20002515003	1
Caelo	Base cream, diluted	20002515004	6
Caelo	Anionic hydrophilic cream DAB	20002541	2
Caelo	Base cream, hydrophobic DAC	20002852001	9
Caelo	Base cream, hydrophobic DAC	20002853001	6
Caelo	Base cream, hydrophobic DAC	200028540003	1
Caelo	Base cream, hydrophobic DAC	20002854002	19
Caelo	Base cream, hydrophobic DAC	20002854003	21
Caelo	Anionic hydrophilic cream DAB	2000294001	1
Caelo	Anionic hydrophilic cream DAB	20002942001	28
Caelo	Anionic hydrophilic cream DAB	20002943001	4
Caelo	Anionic hydrophilic cream DAB	20002944001	2
Caelo	Anionic hydrophilic cream DAB	20002945002	15
Caelo	Anionic hydrophilic cream DAB	20002946001	12
Caelo	Anionic hydrophilic cream DAB	20002947000	1
Caelo	Anionic hydrophilic cream DAB	20002947001	16
Caelo	Anionic hydrophilic cream DAB	20002948001	18
Caelo	Anionic hydrophilic cream DAB	20002949001	4
Caelo	Anionic hydrophilic cream DAB	20002949002	7
Caelo	Anionic hydrophilic cream SR…	20003015001	13
Caelo	Anionic hydrophilic cream SR…	20003015003	2
Caelo	Hydrophilic cream, non-ionic…	20003016002	4
Caelo	Hydrophilic cream, non-ionic…	20003016003	1
Caelo	Anionic hydrophilic cream DAB	2000311001	1
Caelo	Anionic hydrophilic cream DAB	2000313001	1
Caelo	Anionic hydrophilic cream DAB	2000319001	2
Caelo	Anionic hydrophilic cream wi…	20003306001	1
Caelo	Anionic hydrophilic cream wi…	20003306002	1
Caelo	Anionic hydrophilic cream wi…	20003307001	12
Caelo	Anionic hydrophilic cream wi…	20003308001	9
Caelo	Anionic hydrophilic cream wi…	20003309001	27
Caelo	Anionic hydrophilic cream wi…	20003309002	1
Caelo	Base cream, hydrophobic DAC	20003445001	26
Caelo	Base cream, hydrophobic DAC	20003445002	12
Caelo	Base cream, hydrophobic DAC	20003445003	1
Caelo	Base cream, hydrophobic DAC	20003446002	4
Caelo	Base cream, diluted	20003509001	6
Caelo	Base cream, diluted	20003510001	11
Caelo	Base cream, diluted	20003510002	3
Caelo	Base cream, diluted	2000351001	1
Caelo	Anionic hydrophilic cream SR…	20003746001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic cream, non-ionic…	20003746003	13
Caelo	Anionic hydrophilic cream SR…	20003746004	17
Caelo	Hydrophilic cream, non-ionic…	20003954002	1
Caelo	Hydrophilic cream, non-ionic…	20003955001	2
Caelo	Hydrophilic cream, non-ionic…	20003955002	7
Caelo	Base cream, hydrophobic DAC	2000427001	2
Caelo	Anionic hydrophilic cream wi…	20004291001	10
Caelo	Anionic hydrophilic cream wi…	20004292001	10
Caelo	Anionic hydrophilic cream wi…	20004293001	31
Caelo	Anionic hydrophilic cream wi…	20004293002	2
Caelo	Anionic hydrophilic cream DAB	20004456001	14
Caelo	Anionic hydrophilic cream DAB	200044561001	1
Caelo	Anionic hydrophilic cream DAB	20004457001	12
Caelo	Anionic hydrophilic cream DAB	20004457002	4
Caelo	Anionic hydrophilic cream DAB	200044577002	1
Caelo	Anionic hydrophilic cream DAB	20004458001	10
Caelo	Anionic hydrophilic cream DAB	20004458001/12042101	1
Caelo	Anionic hydrophilic cream DAB	20004459001	10
Caelo	Anionic hydrophilic cream DAB	20004460001	10
Caelo	Anionic hydrophilic cream DAB	20004461001	14
Caelo	Anionic hydrophilic cream DAB	20004462001	2
Caelo	Anionic hydrophilic cream SR…	2000522001	1
Caelo	Anionic hydrophilic cream SR…	2000522002	1
Caelo	Anionic hydrophilic cream DAB	2000924001	1
Caelo	Anionic hydrophilic cream DAB	2000928001	1
Caelo	Anionic hydrophilic cream wi…	2001246001	1
Caelo	Anionic hydrophilic cream wi…	2001250001	1
Caelo	Anionic hydrophilic cream wi…	200125001	2
Caelo	Anionic hydrophilic cream wi…	2001251001	1
Caelo	Anionic hydrophilic cream DAB	200147001	1
Caelo	Anionic hydrophilic cream DAB	2001471001	1
Caelo	Base cream, hydrophobic DAC	2001592001	1
Caelo	Base cream, hydrophobic DAC	2001593002	1
Caelo	Base cream, diluted	2001667001	1
Caelo	Anionic hydrophilic cream DAB	2001675002	1
Caelo	Anionic hydrophilic cream SR…	2001781004	1
Caelo	Anionic hydrophilic cream DAB	2002082001	1
Caelo	Anionic hydrophilic cream DAB	20021311	1
Caelo	Anionic hydrophilic cream SR…	2002423005	1
Caelo	Hydrophilic cream, non-ionic…	2002461003	1
Caelo	Base cream, hydrophobic DAC	2002854002	2
Caelo	Anionic hydrophilic cream DAB	2002949002	1
Caelo	Anionic hydrophilic cream wi…	2003308001	1
Caelo	Anionic hydrophilic cream wi…	2004292001	1
Caelo	Anionic hydrophilic cream wi…	200491001	1
Caelo	Anionic hydrophilic cream SR…	20061205	1
Caelo	Anionic hydrophilic cream wi…	20071504	1
Caelo	Hydrophilic cream, non-ionic…	201015	2
Caelo	Anionic hydrophilic cream DAB	20111294001	1
Caelo	Anionic hydrophilic cream SR…	2013111213	1
Caelo	Base cream, hydrophobic DAC	20160222	1
Caelo	Anionic hydrophilic cream DAB	20301012-3	1
Caelo	Anionic hydrophilic cream DAB	204312540	1
Caelo	Hydrophilic cream, non-ionic…	2070219176501	1
Caelo	Anionic hydrophilic cream SR…	207071784201	1
Caelo	Anionic hydrophilic cream SR…	2091403	1
Caelo	Anionic hydrophilic cream SR…	20A080513	1
Caelo	Hydrophilic cream, non-ionic…	20A200618	1
Caelo	Base cream, hydrophobic DAC	21(21001222003)	1
Caelo	Anionic hydrophilic cream DAB	210000293001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	210000375002	1
Caelo	Base cream, hydrophobic DAC	210000396001	1
Caelo	Anionic hydrophilic cream wi…	210000683001	1
Caelo	Anionic hydrophilic cream DAB	210000924001	1
Caelo	Anionic hydrophilic cream DAB	210000925001	1
Caelo	Anionic hydrophilic cream DAB	2100023001	1
Caelo	Anionic hydrophilic cream DAB	21000287001	2
Caelo	Anionic hydrophilic cream DAB	21000288001	9
Caelo	Anionic hydrophilic cream DAB	21000289001	6
Caelo	Anionic hydrophilic cream DAB	210002890012x	2
Caelo	Anionic hydrophilic cream DAB	21000290001	7
Caelo	Anionic hydrophilic cream DAB	21000291001	8
Caelo	Anionic hydrophilic cream DAB	21000292001	1
Caelo	Anionic hydrophilic cream DAB	21000293001	5
Caelo	Anionic hydrophilic cream DAB	21000294001	3
Caelo	Anionic hydrophilic cream DAB	21000295001	3
Caelo	Anionic hydrophilic cream SR…	21000339001	5
Caelo	Anionic hydrophilic cream DAB	21000339002	7
Caelo	Anionic hydrophilic cream DAB	21000339003	12
Caelo	Base cream, hydrophobic DAC	210003455001	1
Caelo	Base cream, hydrophobic DAC	210003696002	1
Caelo	Anionic hydrophilic cream DAB	21000372001	2
Caelo	Anionic hydrophilic cream DAB	21000373001	4
Caelo	Anionic hydrophilic cream DAB	21000374001	4
Caelo	Anionic hydrophilic cream DAB	2100037401	1
Caelo	Anionic hydrophilic cream DAB	21000375001	1
Caelo	Anionic hydrophilic cream DAB	21000375002	7
Caelo	Anionic hydrophilic cream DAB	21000376002	8
Caelo	Anionic hydrophilic cream DAB	21000377001	19
Caelo	Base cream, hydrophobic DAC	210003960001	1
Caelo	Base cream, hydrophobic DAC	21000396001	24
Caelo	Base cream, hydrophobic DAC	21000396002	3
Caelo	Base cream, hydrophobic DAC	21000397003	16
Caelo	Base cream, hydrophobic DAC	21000398001	1
Caelo	Base cream, hydrophobic DAC	21000399001	4
Caelo	Base cream, hydrophobic DAC	2100039901	1
Caelo	Hydrophilic cream, non-ionic…	210005003	1
Caelo	Hydrophilic cream, non-ionic…	21000505001	7
Caelo	Hydrophilic cream, non-ionic…	21000505003	3
Caelo	Anionic hydrophilic cream SR…	21000525/20003746004	1
Caelo	Anionic hydrophilic cream wi…	21000582001	1
Caelo	Anionic hydrophilic cream wi…	21000681001	11
Caelo	Anionic hydrophilic cream wi…	21000682001	30
Caelo	Anionic hydrophilic cream wi…	21000683001	9
Caelo	Anionic hydrophilic cream wi…	21000684001	7
Caelo	Anionic hydrophilic cream wi…	21000685002	3
Caelo	Base cream, diluted	21000785001	4
Caelo	Base cream, diluted	21000785002	3
Caelo	Anionic hydrophilic cream SR…	21000806003	3
Caelo	Anionic hydrophilic cream SR…	21000806004	6
Caelo	Anionic hydrophilic cream DAB	21000920001	17
Caelo	Anionic hydrophilic cream DAB	21000921001	7
Caelo	Anionic hydrophilic cream DAB	21000921002	4
Caelo	Anionic hydrophilic cream DAB	21000921003	7
Caelo	Anionic hydrophilic cream DAB	21000922001	2
Caelo	Anionic hydrophilic cream DAB	21000923001	1
Caelo	Anionic hydrophilic cream DAB	21000924001	16
Caelo	Anionic hydrophilic cream DAB	21000925001	21
Caelo	Anionic hydrophilic cream DAB	21000926001	12
Caelo	Anionic hydrophilic cream DAB	21000927001	18

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	21000928001	6
Caelo	Anionic hydrophilic cream DAB	21000929001	9
Caelo	Anionic hydrophilic cream DAB	21001201001	1
Caelo	Base cream, hydrophobic DAC	2100121001	1
Caelo	Base cream, hydrophobic DAC	2100122003	2
Caelo	Base cream, hydrophobic DAC	21001221001	7
Caelo	Base cream, hydrophobic DAC	21001222003	20
Caelo	Base cream, hydrophobic DAC	2100122203	1
Caelo	Base cream, hydrophobic DAC	21001223001	25
Caelo	Base cream, hydrophobic DAC	21001223002	3
Caelo	Base cream, diluted	21001312001	2
Caelo	Base cream, diluted	21001313001	9
Caelo	Base cream, diluted	21001314001	4
Caelo	Base cream, diluted	21001314002	4
Caelo	Hydrophilic cream, non-ionic…	21001333001	3
Caelo	Hydrophilic cream, non-ionic…	21001333002	2
Caelo	Hydrophilic cream, non-ionic…	210013333002	1
Caelo	Anionic hydrophilic cream SR…	21001436001	2
Caelo	Anionic hydrophilic cream SR…	21001436002	5
Caelo	Anionic hydrophilic cream DAB	21001493002	1
Caelo	Anionic hydrophilic cream DAB	21001494001	2
Caelo	Anionic hydrophilic cream DAB	21001495001	1
Caelo	Anionic hydrophilic cream DAB	21001496001	1
Caelo	Anionic hydrophilic cream DAB	21001496002	3
Caelo	Anionic hydrophilic cream DAB	21001497001	5
Caelo	Anionic hydrophilic cream DAB	210014972	1
Caelo	Anionic hydrophilic cream DAB	21001498001	4
Caelo	Anionic hydrophilic cream DAB	21001499001	6
Caelo	Anionic hydrophilic cream DAB	21001500001	9
Caelo	Anionic hydrophilic cream DAB	21001501001	2
Caelo	Anionic hydrophilic cream DAB	21001502001	6
Caelo	Anionic hydrophilic cream DAB	21001503001	3
Caelo	Anionic hydrophilic cream DAB	21001503002	3
Caelo	Anionic hydrophilic cream DAB	21001504001	1
Caelo	Anionic hydrophilic cream DAB	21001505001	8
Caelo	Anionic hydrophilic cream SR…	2100175200	1
Caelo	Anionic hydrophilic cream SR…	21001752002	5
Caelo	Anionic hydrophilic cream SR…	21001752003	13
Caelo	Anionic hydrophilic cream DAB	21001810001	1
Caelo	Anionic hydrophilic cream DAB	21001811001	3
Caelo	Anionic hydrophilic cream DAB	21001812002	6
Caelo	Anionic hydrophilic cream DAB	21001813001	2
Caelo	Anionic hydrophilic cream DAB	21001813002	7
Caelo	Anionic hydrophilic cream DAB	21001813003	12
Caelo	Anionic hydrophilic cream DAB	21001814001	7
Caelo	Anionic hydrophilic cream DAB	21001815001	7
Caelo	Anionic hydrophilic cream DAB	21001816001	8
Caelo	Base cream, diluted	21001869001	2
Caelo	Base cream, diluted	21001870001	3
Caelo	Base cream, diluted	21001871001	1
Caelo	Base cream, diluted	21001871002	4
Caelo	Anionic hydrophilic cream wi…	21001941002	3
Caelo	Anionic hydrophilic cream wi…	21001942001	5
Caelo	Anionic hydrophilic cream wi…	21001943001	14
Caelo	Anionic hydrophilic cream wi…	21001943002	4
Caelo	Base cream, hydrophobic DAC	21001947001	29
Caelo	Base cream, hydrophobic DAC	21001947002	11
Caelo	Base cream, hydrophobic DAC	21001949001	6
Caelo	Base cream, hydrophobic DAC	21001950001	6
Caelo	Hydrophilic cream, non-ionic…	21002193003	6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic cream, non-ionic…	21002193004	4
Caelo	Anionic hydrophilic cream SR…	21002250001	3
Caelo	Base cream, diluted	21002416001	1
Caelo	Base cream, diluted	21002417001	1
Caelo	Anionic hydrophilic cream DAB	21002623001	5
Caelo	Anionic hydrophilic cream DAB	21002624001	6
Caelo	Anionic hydrophilic cream DAB	21002626002	1
Caelo	Anionic hydrophilic cream DAB	21002628001	2
Caelo	Anionic hydrophilic cream DAB	21002630001	2
Caelo	Anionic hydrophilic cream DAB	2100263002	1
Caelo	Anionic hydrophilic cream DAB	21002631001	2
Caelo	Anionic hydrophilic cream DAB	21002632002	3
Caelo	Anionic hydrophilic cream DAB	21002633001	4
Caelo	Anionic hydrophilic cream DAB	21002634001	5
Caelo	Anionic hydrophilic cream DAB	21002635001	1
Caelo	Anionic hydrophilic cream DAB	21002636001	4
Caelo	Anionic hydrophilic cream DAB	21002637001	4
Caelo	Anionic hydrophilic cream DAB	21002638001	3
Caelo	Anionic hydrophilic cream DAB	21002639001	1
Caelo	Anionic hydrophilic cream DAB	21002640001	3
Caelo	Anionic hydrophilic cream DAB	21002641001	3
Caelo	Anionic hydrophilic cream DAB	21002642001	1
Caelo	Anionic hydrophilic cream wi…	21002644001	5
Caelo	Anionic hydrophilic cream wi…	21002645002	11
Caelo	Anionic hydrophilic cream wi…	21002646001	3
Caelo	Anionic hydrophilic cream DAB	2100289001	1
Caelo	Base cream, hydrophobic DAC	21002902001	7
Caelo	Base cream, hydrophobic DAC	21002902002	12
Caelo	Base cream, hydrophobic DAC	21002903002	2
Caelo	Anionic hydrophilic cream SR…	21003004002	6
Caelo	Anionic hydrophilic cream SR…	21003004003	8
Caelo	Base cream, diluted	2100313001	1
Caelo	Anionic hydrophilic cream SR…	21003705001	6
Caelo	Anionic hydrophilic cream SR…	21003705002	2
Caelo	Anionic hydrophilic cream SR…	21003705003	1
Caelo	Anionic hydrophilic cream DAB	21003798001	6
Caelo	Anionic hydrophilic cream wi…	21003799001	2
Caelo	Anionic hydrophilic cream wi…	21003800002	4
Caelo	Hydrophilic cream, non-ionic…	21003888001	2
Caelo	Hydrophilic cream, non-ionic…	21003888002	1
Caelo	Base cream, hydrophobic DAC	21003889001	2
Caelo	Base cream, hydrophobic DAC	21003890003	2
Caelo	Base cream, hydrophobic DAC	21003891001	1
Caelo	Base cream, hydrophobic DAC	21003891003	8
Caelo	Anionic hydrophilic cream DAB	21003943001	4
Caelo	Anionic hydrophilic cream DAB	2100394401	1
Caelo	Anionic hydrophilic cream DAB	21003948001	1
Caelo	Anionic hydrophilic cream DAB	21003949002	3
Caelo	Anionic hydrophilic cream DAB	21003950001	1
Caelo	Anionic hydrophilic cream DAB	21003951001	1
Caelo	Anionic hydrophilic cream DAB	21003952001	2
Caelo	Anionic hydrophilic cream DAB	21003954001	5
Caelo	Anionic hydrophilic cream DAB	21003955001	5
Caelo	Anionic hydrophilic cream DAB	21003956001	1
Caelo	Anionic hydrophilic cream DAB	21003957001	2
Caelo	Anionic hydrophilic cream wi…	21004210002	4
Caelo	Anionic hydrophilic cream SR…	2100499001	1
Caelo	Anionic hydrophilic cream DAB	2100500001	1
Caelo	Anionic hydrophilic cream DAB	2100635001	1
Caelo	Anionic hydrophilic cream SR…	2100806003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream wi…	2101943001	1
Caelo	Anionic hydrophilic cream DAB	2103312540	1
Caelo	Anionic hydrophilic cream DAB	210395101	1
Caelo	Anionic hydrophilic cream SR…	21041720	1
Caelo	Anionic hydrophilic cream SR…	21081201	1
Caelo	Base cream, diluted	210906(21001869001)	1
Caelo	Base cream, diluted	210923(21001869001)	1
Caelo	Anionic hydrophilic cream DAB	211102(21000927001)	1
Caelo	Base cream, diluted	211108(21001870001)	1
Caelo	Anionic hydrophilic cream SR…	21111202	1
Caelo	Base cream, hydrophobic DAC	2111201	1
Caelo	Anionic hydrophilic cream DAB	211125U	2
Caelo	Anionic hydrophilic cream DAB	2111401	1
Caelo	Base cream, hydrophobic DAC	21122013B	1
Caelo	Anionic hydrophilic cream DAB	2112212540	1
Caelo	Anionic hydrophilic cream wi…	2114M25401	1
Caelo	Hydrophilic cream, non-ionic…	2115E-03195NP	1
Caelo	Anionic hydrophilic cream SR…	212000806003	1
Caelo	Base cream, diluted	21490200016702	1
Caelo	Anionic hydrophilic cream DAB	215697	1
Caelo	Anionic hydrophilic cream SR…	21A220617	1
Caelo	Hydrophilic cream, non-ionic…	21B141116	1
Caelo	Hydrophilic cream, non-ionic…	21B151220	1
Caelo	Anionic hydrophilic cream SR…	22000013002	3
Caelo	Anionic hydrophilic cream SR…	22000014002	5
Caelo	Hydrophilic cream, non-ionic…	22000034002	2
Caelo	Hydrophilic cream, non-ionic…	22000034003	3
Caelo	Anionic hydrophilic cream DAB	22000352001	1
Caelo	Anionic hydrophilic cream DAB	22000353001	5
Caelo	Anionic hydrophilic cream DAB	22000355001	1
Caelo	Anionic hydrophilic cream DAB	22000357001	3
Caelo	Anionic hydrophilic cream DAB	22000359001	1
Caelo	Anionic hydrophilic cream DAB	22000360001	1
Caelo	Anionic hydrophilic cream DAB	22000361001	2
Caelo	Anionic hydrophilic cream DAB	22000363001	1
Caelo	Base cream, diluted	22000373003	1
Caelo	Anionic hydrophilic cream wi…	22001180001	1
Caelo	Base cream, diluted	22001362001	1
Caelo	Anionic hydrophilic cream DAB	22001387001	1
Caelo	Anionic hydrophilic cream DAB	220118(21002640001)	1
Caelo	Hydrophilic cream, non-ionic…	22011801	1
Caelo	Base cream, diluted	220209(21004061001)	1
Caelo	Anionic hydrophilic cream DAB	220315(21002642001)	1
Caelo	Hydrophilic cream, non-ionic…	220329	1
Caelo	Anionic hydrophilic cream DAB	220401UEA	1
Caelo	Base cream, diluted	220428(21004060001)	1
Caelo	Anionic hydrophilic cream DAB	220516(22000352001)	1
Caelo	Anionic hydrophilic cream SR…	22061205	1
Caelo	Base cream, diluted	220628(21004060001)	1
Caelo	Anionic hydrophilic cream DAB	220719(22001387001)	1
Caelo	Anionic hydrophilic cream DAB	22091202	1
Caelo	Anionic hydrophilic cream DAB	2220218/17319502	1
Caelo	Anionic hydrophilic cream SR…	22A040718	1
Caelo	Hydrophilic cream, non-ionic…	22A050917	1
Caelo	Anionic hydrophilic cream SR…	22A160615	2
Caelo	Base cream, hydrophobic DAC	230115/2	1
Caelo	Anionic hydrophilic cream SR…	23021706	1
Caelo	Base cream, hydrophobic DAC	23021712	1
Caelo	Anionic hydrophilic cream SR…	23041307	1
Caelo	Anionic hydrophilic cream wi…	23051807	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	23051808	1
Caelo	Anionic hydrophilic cream DAB	23051810	1
Caelo	Hydrophilic cream, non-ionic…	23061812	1
Caelo	Anionic hydrophilic cream DAB	23061814	1
Caelo	Base cream, hydrophobic DAC	230713	3
Caelo	Anionic hydrophilic cream SR…	23121411	1
Caelo	Wolff® base half-fat cream	235200	1
Caelo	Wolff® base half-fat cream	238560	1
Caelo	Anionic hydrophilic cream SR…	23A030919	1
Caelo	Anionic hydrophilic cream DAB	24021401	1
Caelo	Anionic hydrophilic cream DAB	2405212540	1
Caelo	Anionic hydrophilic cream DAB	2413Q02540	1
Caelo	Anionic hydrophilic cream DAB	2414E2540	1
Caelo	Anionic hydrophilic cream SR…	24A100718	1
Caelo	Anionic hydrophilic cream SR…	24A120717	2
Caelo	Anionic hydrophilic cream SR…	25021413	1
Caelo	Anionic hydrophilic cream wi…	2514U25401	1
Caelo	Base cream, hydrophobic DAC	26011603	1
Caelo	Anionic hydrophilic cream wi…	26011908	1
Caelo	Base cream, hydrophobic DAC	26051807	1
Caelo	Hydrophilic cream, non-ionic…	267186	1
Caelo	Anionic hydrophilic cream SR…	26A020817	1
Caelo	Anionic hydrophilic cream SR…	26A211020	1
Caelo	Anionic hydrophilic cream SR…	26A270618	1
Caelo	Anionic hydrophilic cream wi…	27031504	1
Caelo	Anionic hydrophilic cream DAB	27041512	1
Caelo	Anionic hydrophilic cream DAB	2704212540	1
Caelo	Anionic hydrophilic cream DAB	27091305	1
Caelo	Anionic hydrophilic cream DAB	270943	2
Caelo	Anionic hydrophilic cream DAB	2729	1
Caelo	Hydrophilic cream, non-ionic…	274223	1
Caelo	Anionic hydrophilic cream SR…	274377	2
Caelo	Base cream, hydrophobic DAC	2754	1
Caelo	Anionic hydrophilic cream SR…	276077	1
Caelo	Anionic hydrophilic cream DAB	276319	1
Caelo	Anionic hydrophilic cream DAB	276409	1
Caelo	Hydrophilic cream, non-ionic…	276596	1
Caelo	Anionic hydrophilic cream SR…	2770	1
Caelo	Anionic hydrophilic cream DAB	277461	1
Caelo	Anionic hydrophilic cream DAB	2775	1
Caelo	Anionic hydrophilic cream SR…	277565	1
Caelo	Anionic hydrophilic cream SR…	277636	1
Caelo	Anionic hydrophilic cream SR…	277637	3
Caelo	Hydrophilic cream, non-ionic…	277877	1
Caelo	Hydrophilic cream, non-ionic…	277878	1
Caelo	Anionic hydrophilic cream wi…	2788	1
Caelo	Anionic hydrophilic cream DAB	278848	3
Caelo	Anionic hydrophilic cream DAB	278851	1
Caelo	Base cream, hydrophobic DAC	2793	1
Caelo	Hydrophilic cream, non-ionic…	27A130917	1
Caelo	Anionic hydrophilic cream DAB	28031319	1
Caelo	Anionic hydrophilic cream DAB	2807	1
Caelo	Anionic hydrophilic cream SR…	28072014A	1
Caelo	Hydrophilic cream, non-ionic…	280991	1
Caelo	Anionic hydrophilic cream SR…	281738	2
Caelo	Anionic hydrophilic cream SR…	281739	3
Caelo	Anionic hydrophilic cream DAB	281999	1
Caelo	Anionic hydrophilic cream DAB	282005	1
Caelo	Base cream, hydrophobic DAC	282163	1
Caelo	Anionic hydrophilic cream DAB	283478	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic cream, non-ionic…	283634	1
Caelo	Anionic hydrophilic cream SR…	285894	1
Caelo	Hydrophilic cream, non-ionic…	286327	1
Caelo	Base cream, hydrophobic DAC	286515	1
Caelo	Base cream, hydrophobic DAC	286516	4
Caelo	Anionic hydrophilic cream SR…	286976	1
Caelo	Anionic hydrophilic cream SR…	286979	1
Caelo	Anionic hydrophilic cream SR…	286980	1
Caelo	Anionic hydrophilic cream DAB	287562	1
Caelo	Anionic hydrophilic cream DAB	2879	1
Caelo	Anionic hydrophilic cream SR…	288235	1
Caelo	Anionic hydrophilic cream SR…	288307	2
Caelo	Anionic hydrophilic cream SR…	288310	3
Caelo	Base cream, hydrophobic DAC	2893	1
Caelo	Anionic hydrophilic cream SR…	289331	1
Caelo	Anionic hydrophilic cream SR…	289332	1
Caelo	Base cream, hydrophobic DAC	289720	1
Caelo	Hydrophilic cream, non-ionic…	289942	1
Caelo	Hydrophilic cream, non-ionic…	289944	1
Caelo	Anionic hydrophilic cream DAB	290145	1
Caelo	Anionic hydrophilic cream SR…	2906212540	1
Caelo	Hydrophilic cream, non-ionic…	291388	1
Caelo	Anionic hydrophilic cream wi…	2913M25401	1
Caelo	Anionic hydrophilic cream SR…	291529	1
Caelo	Anionic hydrophilic cream DAB	291732	2
Caelo	Anionic hydrophilic cream SR…	293103	1
Caelo	Anionic hydrophilic cream SR…	293104	2
Caelo	Anionic hydrophilic cream SR…	293135	1
Caelo	Base cream, hydrophobic DAC	293162	1
Caelo	Base cream, hydrophobic DAC	293163	1
Caelo	Anionic hydrophilic cream DAB	293437	1
Caelo	Hydrophilic cream, non-ionic…	294310	2
Caelo	Anionic hydrophilic cream DAB	294645	1
Caelo	Anionic hydrophilic cream DAB	294649	2
Caelo	Base cream, hydrophobic DAC	294682	1
Caelo	Base cream, hydrophobic DAC	294686	3
Caelo	Anionic hydrophilic cream SR…	295232	1
Caelo	Anionic hydrophilic cream DAB	295400	1
Caelo	Hydrophilic cream, non-ionic…	295649	1
Caelo	Anionic hydrophilic cream SR…	296408	1
Caelo	Hydrophilic cream, non-ionic…	297309	1
Caelo	Hydrophilic cream, non-ionic…	297374	2
Caelo	Anionic hydrophilic cream DAB	297669	1
Caelo	Anionic hydrophilic cream DAB	297672	1
Caelo	Anionic hydrophilic cream DAB	297674	1
Caelo	Anionic hydrophilic cream DAB	297677	1
Caelo	Anionic hydrophilic cream DAB	297680	1
Caelo	Anionic hydrophilic cream SR…	297912	1
Caelo	Anionic hydrophilic cream SR…	299255	1
Caelo	Hydrophilic cream, non-ionic…	2B110219	1
Caelo	Hydrophilic cream, non-ionic…	2B310118	1
Caelo	Anionic hydrophilic cream wi…	2x18297301	1
Caelo	Anionic hydrophilic cream wi…	2x18297401	1
Caelo	Anionic hydrophilic cream wi…	2x19027601	1
Caelo	Anionic hydrophilic cream wi…	2x19268401	1
Caelo	Anionic hydrophilic cream DAB	2x21000377001	1
Caelo	Anionic hydrophilic cream SR…	3(20000916004)	1
Caelo	Anionic hydrophilic cream SR…	30011503	1
Caelo	Anionic hydrophilic cream DAB	300353	1
Caelo	Anionic hydrophilic cream DAB	300365	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic cream, non-ionic…	300762	1
Caelo	Anionic hydrophilic cream DAB	30081303	1
Caelo	Base cream, hydrophobic DAC	30081812	1
Caelo	Anionic hydrophilic cream DAB	30091403	1
Caelo	Anionic hydrophilic cream SR…	300956	2
Caelo	Anionic hydrophilic cream SR…	300957	1
Caelo	Base cream, hydrophobic DAC	301457	1
Caelo	Hydrophilic cream, non-ionic…	301627	4
Caelo	Base cream, hydrophobic DAC	302134	1
Caelo	Anionic hydrophilic cream SR…	302196	4
Caelo	Anionic hydrophilic cream SR…	302199	1
Caelo	Anionic hydrophilic cream SR…	302200	2
Caelo	Anionic hydrophilic cream DAB	302453	1
Caelo	Anionic hydrophilic cream DAB	302456	1
Caelo	Anionic hydrophilic cream DAB	302461	2
Caelo	Base cream, hydrophobic DAC	303374	1
Caelo	Base cream, hydrophobic DAC	303376	3
Caelo	Base cream, hydrophobic DAC	303377	1
Caelo	Anionic hydrophilic cream SR…	303734	1
Caelo	Anionic hydrophilic cream SR…	303736	1
Caelo	Anionic hydrophilic cream DAB	304017200702	1
Caelo	Anionic hydrophilic cream DAB	304096	2
Caelo	Anionic hydrophilic cream DAB	304098	2
Caelo	Anionic hydrophilic cream DAB	304105	1
Caelo	Anionic hydrophilic cream DAB	304118298701	1
Caelo	Anionic hydrophilic cream DAB	304118299101	1
Caelo	Anionic hydrophilic cream DAB	3042200044561	1
Caelo	Anionic hydrophilic cream SR…	305066	1
Caelo	Anionic hydrophilic cream SR…	305069	1
Caelo	Anionic hydrophilic cream DAB	305372	1
Caelo	Anionic hydrophilic cream DAB	305374	1
Caelo	Anionic hydrophilic cream DAB	305378	2
Caelo	Base cream, hydrophobic DAC	305808	1
Caelo	Hydrophilic cream, non-ionic…	306128	1
Caelo	Anionic hydrophilic cream DAB	3061302	1
Caelo	Anionic hydrophilic cream DAB	3061702	1
Caelo	Anionic hydrophilic cream SR…	306439	1
Caelo	Anionic hydrophilic cream DAB	307028	1
Caelo	Anionic hydrophilic cream SR…	307327	1
Caelo	Anionic hydrophilic cream SR…	307328	1
Caelo	Anionic hydrophilic cream SR…	307332	1
Caelo	Anionic hydrophilic cream SR…	307334	2
Caelo	Hydrophilic cream, non-ionic…	307531	4
Caelo	Base cream, hydrophobic DAC	307771	1
Caelo	Anionic hydrophilic cream SR…	308211	1
Caelo	Anionic hydrophilic cream SR…	308217	3
Caelo	Anionic hydrophilic cream DAB	308397	1
Caelo	Anionic hydrophilic cream DAB	308406	1
Caelo	Base cream, hydrophobic DAC	308507	1
Caelo	Base cream, hydrophobic DAC	308508	1
Caelo	Hydrophilic cream, non-ionic…	309903	1
Caelo	Hydrophilic cream, non-ionic…	309905	1
Caelo	Hydrophilic cream, non-ionic…	309906	1
Caelo	Anionic hydrophilic cream SR…	309912	1
Caelo	Anionic hydrophilic cream SR…	30A160816	1
Caelo	Anionic hydrophilic cream SR…	3101212540	1
Caelo	Hydrophilic cream, non-ionic…	310515	1
Caelo	Anionic hydrophilic cream SR…	31071301	1
Caelo	Base cream, hydrophobic DAC	310826	1
Caelo	Wolff® base half-fat cream	31101811	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream SR...	311055	1
Caelo	Anionic hydrophilic cream DAB	311128	1
Caelo	Anionic hydrophilic cream DAB	311134	2
Caelo	Anionic hydrophilic cream wi...	3125902	1
Caelo	Anionic hydrophilic cream DAB	314Q2540	1
Caelo	Anionic hydrophilic cream SR...	31A230914	1
Caelo	Hydrophilic cream, non-ionic...	31A301019	1
Caelo	Anionic hydrophilic cream wi...	32/AKD2	1
Caelo	Base cream, hydrophobic DAC	3247	1
Caelo	Anionic hydrophilic cream DAB	3255	1
Caelo	Wolff® base half-fat cream	3258	1
Caelo	Anionic hydrophilic cream DAB	3261	1
Caelo	Anionic hydrophilic cream wi...	3288	1
Caelo	Anionic hydrophilic cream DAB	3290	1
Caelo	Anionic hydrophilic cream DAB	3313U-02540	1
Caelo	Anionic hydrophilic cream DAB	3321	1
Caelo	Wolff® base half-fat cream	333620	3
Caelo	Wolff® base half-fat cream	333930	1
Caelo	Anionic hydrophilic cream SR...	33A171017	1
Caelo	Anionic hydrophilic cream DAB	3413M-02540	1
Caelo	Base cream, hydrophobic DAC	3422	1
Caelo	Anionic hydrophilic cream DAB	3436	1
Caelo	Anionic hydrophilic cream wi...	3446	1
Caelo	Anionic hydrophilic cream DAB	3447	1
Caelo	Anionic hydrophilic cream wi...	3448	1
Caelo	Anionic hydrophilic cream SR...	34A060813	2
Caelo	Hydrophilic cream, non-ionic...	36A140514	1
Caelo	Anionic hydrophilic cream DAB	3713A02540	1
Caelo	Hydrophilic cream, non-ionic...	37A300915	1
Caelo	Hydrophilic cream, non-ionic...	38A121216	1
Caelo	Hydrophilic cream, non-ionic...	38A241017	1
Caelo	Anionic hydrophilic cream DAB	3960/V07/15	1
Caelo	Anionic hydrophilic cream DAB	3965/V07/15	1
Caelo	Hydrophilic cream, non-ionic...	3A030119	1
Caelo	Hydrophilic cream, non-ionic...	3A100320	1
Caelo	Anionic hydrophilic cream SR...	3A310117	1
Caelo	Base cream, hydrophobic DAC	4004302	4
Caelo	Base cream, hydrophobic DAC	4004319	3
Caelo	Anionic hydrophilic cream DAB	4051506	1
Caelo	Anionic hydrophilic cream SR...	4061406	1
Caelo	Base cream, hydrophobic DAC	410211-1-P	1
Caelo	Anionic hydrophilic cream DAB	4131I-02540	1
Caelo	Anionic hydrophilic cream DAB	413I-02540	1
Caelo	Wolff® base half-fat cream	431240	2
Caelo	Anionic hydrophilic cream DAB	4313I-02540	1
Caelo	Wolff® base half-fat cream	434360	3
Caelo	Anionic hydrophilic cream wi...	45/AKD7	1
Caelo	Anionic hydrophilic cream DAB	4513E2540	1
Caelo	Anionic hydrophilic cream DAB	4513U2540	1
Caelo	Base cream, hydrophobic DAC	46074802	1
Caelo	Anionic hydrophilic cream SR...	4617M-03327	1
Caelo	Hydrophilic cream, non-ionic...	47A071014	1
Caelo	Anionic hydrophlic cream wit...	4B220518	1
Caelo	Anionic hydrophilic cream wi...	5/2021	1
Caelo	Base cream, hydrophobic DAC	5013q-03497	1
Caelo	Wolff® base half-fat cream	501470	6
Caelo	Base cream, hydrophobic DAC	5017E-03497	1
Caelo	Anionic hydrophilic cream DAB	5031508	1
Caelo	Wolff® base half-fat cream	506361	1
Caelo	Hydrophilic cream, non-ionic...	50A111113	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	51(17143601)	1
Caelo	Wolff® base half-fat cream	511420	3
Caelo	Anionic hydrophilic cream SR...	518E-03327	1
Caelo	Anionic hydrophilic cream DAB	52(17299101)	1
Caelo	Anionic hydrophilic cream DAB	52(17299201)	1
Caelo	Anionic hydrophilic cream SR...	522001	1
Caelo	Anionic hydrophilic cream DAB	53(01119683)	1
Caelo	Anionic hydrophilic cream DAB	54(18298401)	1
Caelo	Anionic hydrophilic cream wi...	54/AKD12	1
Caelo	Base cream, hydrophobic DAC	5421201	1
Caelo	Anionic hydrophilic cream DAB	55(19002802)	1
Caelo	Anionic hydrophilic cream DAB	56(19072901)	1
Caelo	Anionic hydrophilic cream wi...	56/AKD15	1
Caelo	Anionic hydrophilic cream DAB	57601	1
Caelo	Anionic hydrophilic cream DAB	59(20000316001)	1
Caelo	Anionic hydrophlic cream wit...	5B250618	1
Caelo	Base cream, diluted	6(20001670003)	1
Caelo	Anionic hydrophilic cream DAB	60(20002081001)	1
Caelo	Anionic hydrophilic cream DAB	60080604	1
Caelo	Wolff® base half-fat cream	601880	1
Caelo	Wolff® base half-fat cream	602050	1
Caelo	Anionic hydrophilic cream DAB	6021405	1
Caelo	Anionic hydrophilic cream DAB	6021406	1
Caelo	Wolff® base half-fat cream	602290	1
Caelo	Anionic hydrophilic cream DAB	6051701	1
Caelo	Wolff® base half-fat cream	606050	1
Caelo	Anionic hydrophilic cream DAB	6061501	1
Caelo	Anionic hydrophilic cream SR...	6061502	1
Caelo	Anionic hydrophilic cream DAB	6061805	1
Caelo	Anionic hydrophilic cream wi...	6067401	1
Caelo	Wolff® base half-fat cream	609950	1
Caelo	Anionic hydrophilic cream DAB	6121304	1
Caelo	Anionic hydrophilic cream SR...	618E-03327	1
Caelo	Anionic hydrophilic cream DAB	6259601	1
Caelo	Anionic hydrophilic cream wi...	64/AKD16	1
Caelo	Anionic hydrophilic cream DAB	654879	1
Caelo	Hydrophilic cream, non-ionic...	6A130318	1
Caelo	Base cream, diluted	7(20003510003)	1
Caelo	Anionic hydrophilic cream wi...	7011403	1
Caelo	Wolff® base half-fat cream	702500	3
Caelo	Wolff® base half-fat cream	703031	1
Caelo	Wolff® base half-fat cream	704050	3
Caelo	Wolff® base half-fat cream	705760	1
Caelo	Wolff® base half-fat cream	707370	1
Caelo	Wolff® base half-fat cream	707500	1
Caelo	Wolff® base half-fat cream	71120	1
Caelo	Wolff® base half-fat cream	711240	1
Caelo	Wolff® base half-fat cream	711250	2
Caelo	Anionic hydrophilic cream DAB	714M2540	1
Caelo	Wolff® base half-fat cream	7742	1
Caelo	Anionic hydrophilic cream SR...	7A2702213	1
Caelo	Anionic hydrophlic cream wit...	7B040918	1
Caelo	Wolff® base half-fat cream	801140	2
Caelo	Skin care ointment W/L SR	80115	1
Caelo	Wolff® base half-fat cream	804080	2
Caelo	Anionic hydrophilic cream DAB	8051301	1
Caelo	Wolff® base half-fat cream	805720	3
Caelo	Anionic hydrophilic cream SR...	8061203	1
Caelo	Wolff® base half-fat cream	807580	4
Caelo	Wolff® base half-fat cream	807640	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Anionic hydrophilic cream DAB	8111301	1
Caelo	Anionic hydrophilic cream DAB	8243101	1
Caelo	Anionic hydrophilic cream DAB	8696	1
Caelo	Anionic hydrophilic cream DAB	8709	1
Caelo	Anionic hydrophilic cream DAB	8816-250-345	1
Caelo	Hydrophilic cream, non-ionic...	8A050319	1
Caelo	Anionic hydrophilic cream SR...	8A140317	1
Caelo	Anionic hydrophilic cream DAB	9/AKD13	1
Caelo	Anionic hydrophilic cream DAB	9/AKD15	1
Caelo	Anionic hydrophilic cream SR...	9011304	1
Caelo	Wolff® base half-fat cream	901920	4
Caelo	Wolff® base half-fat cream	901930	1
Caelo	Anionic hydrophilic cream DAB	9041505	1
Caelo	Wolff® base half-fat cream	909810	1
Caelo	Anionic hydrophilic cream SR...	9101202	1
Caelo	Anionic hydrophilic cream wi...	9192001	1
Caelo	Wolff® base half-fat cream	9560	1
Caelo	Anionic hydrophilic cream wi...	9771644	4
Caelo	Base cream, hydrophobic DAC	9AKD15	1
Caelo	Anionic hydrophilic cream DAB	AKD10	1
Caelo	Anionic hydrophilic cream DAB	CH13314001	1
Caelo	Anionic hydrophilic cream wi...	CHB13343401	1
Caelo	Anionic hydrophilic cream DAB	CHB18243201	1
Caelo	Anionic hydrophilic cream SR...	CH-B18302501	1
Caelo	Anionic hydrophilic cream SR...	CHB19177102	1
Caelo	Anionic hydrophilic cream SR...	CH-B19177102	1
Caelo	Anionic hydrophilic cream SR...	CHB19240002	1
Caelo	Anionic hydrophilic cream SR...	CHB-20001034001	1
Caelo	Anionic hydrophilic cream DAB	Mh090716Lo1	1
Caelo	Base cream, hydrophobic DAC	P192712-1H	1
Caelo	Anionic hydrophilic cream DAB	P2018/107	1
Caelo	Anionic hydrophilic cream DAB	P-25111921/19161001	1
Caelo	Anionic hydrophilic cream DAB	P-624/18067801	1
Caelo	Anionic hydrophilic cream DAB	pzn01119720	1
Caelo	Anionic hydrophilic cream wi...	Test	1
Caelo	Anionic hydrophilic cream DAB	Testmessung	1
Caelo	Anionic hydrophilic cream DAB	U-030513-1	1
Caelo	Anionic hydrophilic cream wi...	U-160120-1	1
Caelo	Anionic hydrophilic cream DAB	U-310513-1	1
Caeo/ Phoenix	Anionic hydrophilic cream DAB	19072401	1
Caeol/AHD	Anionic hydrophilic cream wi...	15405301	1
Caeol/Noweda	Hydrophilic cream, non-ionic...	18050303	1
Caeol/Noweda	Base cream, hydrophobic DAC	19058301	2
Caeol/Phoenix	Anionic hydrophilic cream wi...	16067601	1
Caeol/Sanacorp	Anionic hydrophilic cream DAB	21000375002	1
Caeol/Sanacorp	Base cream, hydrophobic DAC	2100122302	1
Caeolo/Krieger	Base cream, hydrophobic DAC	16330301	1
Caeolo/Krieger	Anionic hydrophilic cream DAB	17143501	1
Caeolo/Noweda	Anionic hydrophilic cream DAB	17201901	1
Caeolo/Noweda	Anionic hydrophilic cream DAB	17299501	1
Caeolo/Phoenix	Hydrophilic cream, non-ionic...	18175201	1
Caeolo/Sanacorp	Anionic hydrophilic cream wi...	18041401	1
Caeolo	Anionic hydrophilic cream SR...	16046301	1
Caeöp	Base cream, diluted	20003510002	1
Caesa / Alliance Health...	Anionic hydrophilic cream DAB	18168701	1
Caesa / Alliance Health...	Anionic hydrophilic cream wi...	18248102	1
Caesar & Lorenz GmbH	Anionic hydrophilic cream DAB	19161601	1
Caesar & Lorenz	Base cream, hydrophobic DAC	14028002	1
Caesar & Lorenz	Base cream, hydrophobic DAC	14061501	1
Caesar & Loretz GmbH / ...	Base cream, hydrophobic DAC	16165501	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH / ...	Base cream, diluted	20001667001	1
Caesar & Loretz GmbH / ...	Hydrophilic cream, non-ionic...	20002461003	1
Caesar & Loretz GmbH / ...	Base cream, hydrophobic DAC	18242502	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	18243301	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream wi...	18297401	1
Caesar & Loretz GmbH / ...	Base cream, hydrophobic DAC	19115901	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	20000027002	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	20000029001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream wi...	20000190001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream wi...	20001979001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream SR...	20000916005	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	200000931001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream SR...	21000339002	1
Caesar & Loretz GmbH / ...	Base cream, hydrophobic DAC	18119901	1
Caesar & Loretz GmbH / ...	Base cream, hydrophobic DAC	18173903	1
Caesar & Loretz GmbH / ...	Base cream, hydrophobic DAC	18286702	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	18297902	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	18298201	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	18299101	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19002703	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19072101	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19072601	2
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19072901	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19161601	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream wi...	20000193002	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	20000320001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19072001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19002901	1
Caesar & Loretz GmbH / ...	Base cream, hydrophobic DAC	19058402	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19072501	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19161601	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19161801	1
Caesar & Loretz GmbH / ...	Base cream, hydrophobic DAC	19000414001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19072001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19161901	2
Caesar & Loretz GmbH / ...	Base cream, hydrophobic DAC	19205101	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	20000028001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	20002942001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	20002946001	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream wi...	20004291001	2
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	18243301	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	18298301	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	18298701	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	18298901	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	18299101	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19072301	2
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream wi...	19093602	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream wi...	19093801	2
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19161101	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19161201	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19206401	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19272505	2
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	19272901	2
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream SR...	20001781004	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream SR...	20002423005	1
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream SR...	20003015001	2
Caesar & Loretz GmbH / ...	Anionic hydrophilic cream DAB	21000924001	1
Caesar & Loretz GmbH 40...	Anionic hydrophilic cream DAB	11253201	1
Caesar & Loretz GmbH D-...	Anionic hydrophilic cream DAB	11326701	1
Caesar & Loretz GmbH Hi...	Base cream, hydrophobic DAC	115421302	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH Hi…	Anionic hydrophilic cream DAB	13346401	1
Caesar & Loretz GmbH Hi…	Anionic hydrophilic cream DAB	15432001	2
Caesar & Loretz GmbH Hi…	Anionic hydrophilic cream DAB	280291	1
Caesar & Loretz GmbH Hi…	Hydrophilic cream, non-ionic…	282216	1
Caesar & Loretz GmbH Hi…	Anionic hydrophilic cream wi…	B1334301	1
Caesar & Loretz GmbH Je…	Anionic hydrophilic cream DAB	20002081001	2
Caesar & Loretz GmbH Je…	Anionic hydrophilic cream DAB	20002942001	2
Caesar & Loretz GmbH No…	Anionic hydrophilic cream DAB	21001814001	1
Caesar & Loretz GmbH Ph…	Anionic hydrophilic cream DAB	22001393002	1
Caesar & Loretz GmbH Ph…	Anionic hydrophilic cream DAB	21001501001	2
Caesar & Loretz GmbH Ph…	Anionic hydrophilic cream wi…	21001943001	1
Caesar & Loretz GmbH Sa…	Anionic hydrophilic cream DAB	20000930001	2
Caesar & Loretz GmbH Sa…	Base cream, hydrophobic DAC	20001592001	1
Caesar & Loretz GmbH, 4…	Base cream, hydrophobic DAC	11289203	1
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream DAB	11311101	3
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream DAB	12100601	1
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream DAB	12195201	2
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream DAB	12264501	1
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream DAB	12313202	2
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream wi…	12352702	1
Caesar & Loretz GmbH, 4…	Base cream, hydrophobic DAC	13019303	1
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream wi…	13072302	3
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream wi…	13125901	2
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream wi…	13244201	1
Caesar & Loretz GmbH, 4…	Anionic hydrophilic cream wi…	13244401	1
Caesar & Loretz GmbH, A…	Anionic hydrophilic cream SR…	18066902	1
Caesar & Loretz GmbH, A…	Anionic hydrophilic cream SR…	18168501	1
Caesar & Loretz GmbH, P…	Anionic hydrophilic cream SR…	17202101	1
Caesar & Loretz GmbH, P…	Anionic hydrophilic cream wi…	21000685002	2
Caesar & Loretz GmbH, P…	Anionic hydrophilic cream SR…	19003001	1
Caesar & Loretz GmbH, P…	Anionic hydrophilic cream SR…	18298801	1
Caesar & Loretz GmbH, P…	Anionic hydrophilic cream SR…	19072701	2
Caesar & Loretz GmbH, P…	Anionic hydrophilic cream SR…	18243201	1
Caesar & Loretz GmbH, P…	Anionic hydrophilic cream SR…	17142801	1
Caesar & Loretz GmbH,Ph…	Anionic hydrophilic cream SR…	18010901	1
Caesar & Loretz GmbH/ A…	Anionic hydrophilic cream DAB	20000032001	1
Caesar & Loretz GmbH/ A…	Anionic hydrophilic cream DAB	20000930001	1
Caesar & Loretz GmbH/ A…	Anionic hydrophilic cream DAB	20002949002	1
Caesar & Loretz GmbH/ A…	Anionic hydrophilic cream DAB	19162601	1
Caesar & Loretz GmbH/ F…	Base cream, hydrophobic DAC	18174101	1
Caesar & Loretz GmbH/ F…	Anionic hydrophilic cream DAB	20002081001	1
Caesar & Loretz GmbH/ F…	Anionic hydrophilic cream SR…	21000505001	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream DAB	18299001	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream DAB	19161601	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream wi…	19268203	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream DAB	1927505	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream DAB	20000032001	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream SR…	20000522003	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream DAB	20000928001	1
Caesar & Loretz GmbH/ G…	Base cream, hydrophobic DAC	20003446002	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream SR…	20003746004	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream SR…	21000339003	1
Caesar & Loretz GmbH/ G…	Anionic hydrophilic cream DAB	21000924001	1
Caesar & Loretz GmbH/ J…	Anionic hydrophilic cream DAB	20000403001	1
Caesar & Loretz GmbH/ K…	Anionic hydrophilic cream DAB	20000925001	1
Caesar & Loretz GmbH/ K…	Anionic hydrophilic cream DAB	19072501	1
Caesar & Loretz GmbH/ K…	Anionic hydrophilic cream wi…	20001978001	1
Caesar & Loretz GmbH/ K…	Anionic hydrophilic cream wi…	20004291001	1
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	18299001	1
Caesar & Loretz GmbH/ N…	Base cream, hydrophobic DAC	19000415001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	19003001	1
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	19072601	1
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	19206801	1
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	20000037001	1
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream wi…	20000190001	1
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	20000312001	1
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	20000316001	1
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	20001471001	2
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	20002081001	1
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	21000921003	2
Caesar & Loretz GmbH/ N…	Anionic hydrophilic cream DAB	21001497001	2
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream DAB	20002945002	1
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream DAB	21000372001	1
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream wi…	21001942001	2
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream DAB	21002642001	1
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream wi…	21003798001	1
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream DAB	18298101	1
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream DAB	18299101	1
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream wi…	19192001	1
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream DAB	20000046003	1
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream wi…	20000193002	1
Caesar & Loretz GmbH/ P…	Anionic hydrophilic cream DAB	20001469001	2
Caesar & Loretz GmbH/ P…	Base cream, hydrophobic DAC	20003445002	1
Caesar & Loretz GmbH/ S…	Anionic hydrophilic cream wi…	20000193002	1
Caesar & Loretz GmbH/ S…	Anionic hydrophilic cream DAB	20001480001	1
Caesar & Loretz GmbH/ S…	Base cream, hydrophobic DAC	19145602	1
Caesar & Loretz GmbH/ S…	Anionic hydrophilic cream SR…	19240001	1
Caesar & Loretz GmbH/ S…	Anionic hydrophilic cream wi…	2000125	1
Caesar & Loretz GmbH/ S…	Anionic hydrophilic cream wi…	20003309001	1
Caesar & Loretz GmbH/AEP	Anionic hydrophilic cream DAB	20000029001	1
Caesar & Loretz GmbH/AEP	Anionic hydrophilic cream DAB	20000924002	6
Caesar & Loretz GmbH/AHC	Anionic hydrophilic cream wi…	18297501	1
Caesar & Loretz GmbH/AHD	Anionic hydrophilic cream wi…	19192001	1
Caesar & Loretz GmbH/AHD	Anionic hydrophilic cream DAB	19206001	2
Caesar & Loretz GmbH/AHD	Anionic hydrophilic cream DAB	19272505	1
Caesar & Loretz GmbH/AHD	Anionic hydrophilic cream DAB	19272701	1
Caesar & Loretz GmbH/AHD	Anionic hydrophilic cream DAB	20000932001	1
Caesar & Loretz GmbH/AHD	Anionic hydrophilic cream DAB	20002949002	2
Caesar & Loretz GmbH/AHD	Anionic hydrophilic cream DAB	20004461001	1
Caesar & Loretz GmbH/AHD	Anionic hydrophilic cream SR…	2000522003	1
Caesar & Loretz GmbH/AHD	Anionic hydrophilic cream DAB	21000293001	1
Caesar & Loretz GmbH/AHD	Base cream, hydrophobic DAC	22000800003	1
Caesar & Loretz GmbH/Al…	Anionic hydrophilic cream DAB	19206301	1
Caesar & Loretz GmbH/Al…	Base cream, hydrophobic DAC	200001591001	1
Caesar & Loretz GmbH/Al…	Base cream, hydrophobic DAC	20000426002	1
Caesar & Loretz GmbH/Al…	Base cream, hydrophobic DAC	20002853001	1
Caesar & Loretz GmbH/Al…	Anionic hydrophilic cream wi…	21000683001	1
Caesar & Loretz GmbH/Al…	Anionic hydrophilic cream DAB	21001497001	1
Caesar & Loretz GmbH/An…	Anionic hydrophilic cream DAB	19162001	3
Caesar & Loretz GmbH/An…	Anionic hydrophilic cream DAB	20000929001	1
Caesar & Loretz GmbH/An…	Anionic hydrophilic cream SR…	20003746004	1
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	19072701	1
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	18298101	1
Caesar & Loretz GmbH/Fi…	Base cream, hydrophobic DAC	19000414001	1
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	19002802	1
Caesar & Loretz GmbH/Fi…	Base cream, hydrophobic DAC	19058501	2
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	19072301	1
Caesar & Loretz GmbH/Fi…	Base cream, hydrophobic DAC	19145602	1
Caesar & Loretz GmbH/Fi…	Base cream, hydrophobic DAC	1925681	1
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	20000028001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	20000038001	1
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream SR…	20000522001	2
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	20000929001	1
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	20001480001	1
Caesar & Loretz GmbH/Fi…	Base cream, hydrophobic DAC	20002854003	1
Caesar & Loretz GmbH/Fi…	Hydrophilic cream, non-ionic…	20003016002	1
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	20004458001	1
Caesar & Loretz GmbH/Fi…	Base cream, hydrophobic DAC	21000396001	1
Caesar & Loretz GmbH/Fi…	Anionic hydrophilic cream DAB	21002623002	1
Caesar & Loretz GmbH/G	Anionic hydrophilic cream wi…	18297501	1
Caesar & Loretz GmbH/gehe	Anionic hydrophilic cream wi…	18248101	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream wi…	18248101	1
Caesar & Loretz GmbH/GEHE	Anionic hydrophilic cream wi…	18297501	1
Caesar & Loretz GmbH/Gehe	Base cream, hydrophobic DAC	19000414001	1
Caesar & Loretz GmbH/Gehe	Base cream, hydrophobic DAC	19000415001	1
Caesar & Loretz GmbH/Gehe	Base cream, hydrophobic DAC	19002003	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	19002802	1
Caesar & Loretz GmbH/Gehe	Base cream, hydrophobic DAC	19058401	1
Caesar & Loretz GmbH/Gehe	Base cream, hydrophobic DAC	19058402	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	19072101	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	19072701	1
Caesar & Loretz GmbH/GEHE	Anionic hydrophilic cream wi…	19093701	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	19161901	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	19162001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream wi…	19192201	1
Caesar & Loretz GmbH/Gehe	Base cream, hydrophobic DAC	19204801	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream SR…	19240002	1
Caesar & Loretz GmbH/GEHE	Anionic hydrophilic cream SR…	19240103	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream wi…	19268401	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	19272504	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20000028001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20000314001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20000318001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20000320001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20000399001	2
Caesar & Loretz GmbH/Gehe	Base cream, hydrophobic DAC	20000427001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream SR…	20000916004	1
Caesar & Loretz GmbH/GEHE	Anionic hydrophilic cream DAB	20000928001	2
Caesar & Loretz GmbH/GEHE	Anionic hydrophilic cream DAB	20001470001	2
Caesar & Loretz GmbH/Gehe	Base cream, hydrophobic DAC	20001590001	1
Caesar & Loretz GmbH/GEHE	Base cream, hydrophobic DAC	20001593002	2
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20001675002	1
Caesar & Loretz GmbH/GEHE	Anionic hydrophilic cream wi…	20001979001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20002080001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20002942001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20002947001	1
Caesar & Loretz GmbH/GEHE	Anionic hydrophilic cream DAB	20002949001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream wi…	20003309001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream wi…	20004293001	2
Caesar & Loretz GmbH/GEHE	Anionic hydrophilic cream DAB	20004457002	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	20004459001	1
Caesar & Loretz GmbH/Gehe	Hydrophilic cream, non-ionic…	21000505001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	21000921003	1
Caesar & Loretz GmbH/GEHE	Base cream, hydrophobic DAC	21001223001	1
Caesar & Loretz GmbH/GEHE	Anionic hydrophilic cream DAB	21001503001	2
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	21001505001	1
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream wi…	21001943001	2
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream DAB	21002641001	2
Caesar & Loretz GmbH/Gehe	Anionic hydrophilic cream wi…	21003800002	1
Caesar & Loretz GmbH/Ge…	Anionic hydrophilic cream DAB	19206801	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Ho…	Anionic hydrophilic cream DAB	20000314001	1
Caesar & Loretz GmbH/Ho…	Anionic hydrophilic cream DAB	21000924001	1
Caesar & Loretz GmbH/Ho…	Hydrophilic cream, non-ionic…	21001333001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	19003001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	19072101	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	19072701	2
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream wi…	19093801	1
Caesar & Loretz GmbH/Je…	Base cream, hydrophobic DAC	19145602	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	19161701	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	19206001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	19206801	3
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream SR…	19240002	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream wi…	19268401	2
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	19272901	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	20000028001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	20000038001	2
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	20000312001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	20000313001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	20000320001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	20000494001	2
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream SR…	20000522001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	20000930001	1
Caesar & Loretz GmbH/Je…	Base cream, diluted	20001667001	1
Caesar & Loretz GmbH/je…	Anionic hydrophilic cream DAB	20002082001	1
Caesar & Loretz GmbH/Je…	Base cream, diluted	20003510002	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream SR…	20003746001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	21000375001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream wi…	21000682001	1
Caesar & Loretz GmbH/Je…	Base cream, hydrophobic DAC	21001222003	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	21001816001	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream wi…	21003800002	1
Caesar & Loretz GmbH/Je…	Anionic hydrophilic cream DAB	21003957001	2
Caesar & Loretz GmbH/Kehr	Anionic hydrophilic cream wi…	19192001	1
Caesar & Loretz GmbH/Kehr	Anionic hydrophilic cream DAB	20001480002	1
Caesar & Loretz GmbH/Kehr	Anionic hydrophilic cream DAB	21000927001	1
Caesar & Loretz GmbH/Kehr	Anionic hydrophilic cream DAB	21002639001	1
Caesar & Loretz GmbH/Kr…	Base cream, hydrophobic DAC	19000415001	1
Caesar & Loretz GmbH/Kr…	Anionic hydrophilic cream DAB	22000352001	1
Caesar & Loretz GmbH/Mi…	Anionic hydrophilic cream DAB	19072001	1
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	18286702	3
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	18298701	2
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	19058301	3
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	19058401	2
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	19115901	2
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	19161401	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	19161501	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	19161901	2
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	19162001	2
Caesar & Loretz GmbH/No…	Hydrophilic cream, non-ionic…	19176501	1
Caesar & Loretz GmbH/No…	Base cream, diluted	19190403	2
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	19204802	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	19273001	2
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	19273002	1
Caesar & Loretz GmbH/No…	Base cream, diluted	19278901	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	20000318001	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	20000319001	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	20000402001	2
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	20000427001	2
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream SR…	20000522001	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	20000928001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	20000929001	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	20001480002	1
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	20001590001	1
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	20001592001	2
Caesar & Loretz GmbH/No…	Base cream, diluted	20001670002	3
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	20001676002	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	20002082001	2
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream SR…	20002226	1
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	20002854003	3
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	20002949002	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream wi…	20003309001	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream wi…	2000429001	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream wi…	20004292001	1
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	21000396001	1
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	21001223001	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	21001499001	1
Caesar & Loretz GmbH/No…	Anionic hydrophilic cream DAB	21001812002	1
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	21002902001	1
Caesar & Loretz GmbH/No…	Base cream, hydrophobic DAC	21002902002	1
Caesar & Loretz GmbH/P	Anionic hydrophilic cream DAB	19072801	1
Caesar & Loretz GmbH/P	Anionic hydrophilic cream wi…	19192201	2
Caesar & Loretz GmbH/P	Anionic hydrophilic cream wi…	19268401	1
Caesar & Loretz GmbH/Phoe	Base cream, hydrophobic DAC	21001223001	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20001676002	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream SR…	20002423005	3
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20002942001	4
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	20003445002	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	18297501	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	18299101	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	19027502	1
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	19058301	1
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	19058401	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	19072201	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	19072701	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	19093801	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	19192001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	19192101	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	19265401	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	19268203	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	19272601	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	20000193002	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20000313001	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream SR…	20000522001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	20001251001	2
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	20002854002	3
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	20003309001	2
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	21000396001	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	21000683001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21000925001	1
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	21001222003	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21001502001	1
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	21001947001	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21002635001	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21003956001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	22000034003	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	22000357001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream SR…	19206001	3
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	18248101	1
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	19000415001	2
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	19032002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	19072501	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	19161901	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	19206101	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	19268203	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	19273002	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20000029001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20000319001	1
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	20000425001	2
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	20000427001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20000932001	1
Caesar & Loretz GmbH/Ph…	Base cream, diluted	20001059001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20001480001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20002942001	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20002948001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	20003309001	2
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	20003445001	1
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	20003445002	3
Caesar & Loretz GmbH/Ph…	Base cream, diluted	20003510001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream SR…	20003746003	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	20004293001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20004456001	6
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	20004457001	3
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21000290001	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21000291001	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21000372001	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21000920001	3
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21001813001	1
Caesar & Loretz GmbH/Ph…	Base cream, diluted	21001871001	1
Caesar & Loretz GmbH/Ph…	Base cream, hydrophobic DAC	21001947001	1
Caesar & Loretz GmbH/Ph…	Hydrophilic cream, non-ionic…	21002193003	1
Caesar & Loretz GmbH/Ph…	Hydrophilic cream, non-ionic…	21002193004	2
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream wi…	21003800002	1
Caesar & Loretz GmbH/Ph…	Anionic hydrophilic cream DAB	21003945001	1
Caesar & Loretz GmbH/Px	Anionic hydrophilic cream wi…	18320901	1
Caesar & Loretz GmbH/S	Anionic hydrophilic cream SR…	20000522003	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream SR…	18147501	2
Caesar & Loretz GmbH/Sa…	Base cream, diluted	19000843001	1
Caesar & Loretz GmbH/Sa…	Hydrophilic cream, non-ionic…	19055601	3
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	19071801	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	19072701	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	19072801	1
Caesar & Loretz GmbH/Sa…	Base cream, hydrophobic DAC	19145601	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	19161101	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream SR…	19177103	2
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	1920611	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	19206701	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream SR…	19240001	3
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream wi…	19268203	2
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	19272601	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	20000038001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	20000312001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	20000320001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	20000929001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	20001475001	1
Caesar & Loretz GmbH/Sa…	Base cream, hydrophobic DAC	20001593002	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	20001675002	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	20001676002	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream wi…	20001979001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream SR…	20003015001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream wi…	20003309001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	20004462001	1
Caesar & Loretz GmbH/Sa…	Base cream, hydrophobic DAC	21000396001	2
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream wi…	21000682001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	21000920001	2
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	21000921001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	21000924001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	21000929001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	21002635001	1
Caesar & Loretz GmbH/Sa…	Hydrophilic cream, non-ionic…	21003888002	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	21003943001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream DAB	21003945001	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream SR…	AP210205-01	1
Caesar & Loretz GmbH/Sa…	Anionic hydrophilic cream wi…	AP210622-07	1
Caesar & Loretz GmbH/Sp…	Anionic hydrophilic cream SR…	18302501	1
Caesar & Loretz GmbH/Sp…	Anionic hydrophilic cream SR…	19093001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	12101101	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	12313501	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	13275302	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	13386401	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	13409401	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	14000701	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	14016901	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	14061501	3
caesar & Loretz GmbH	Base cream, hydrophobic DAC	14061601	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	14062401	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	14185801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	14232801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	14294201	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	14335501	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	15027301	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	15046401	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	15048701	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	15111402	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	15221401	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	15400601	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	15421201	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	16074901	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	16174201	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	16330203	1
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	17000750	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	17112903	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	17141901	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	17202001	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	17255201	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	17270001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	17270501	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	17299101	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	17299301	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	17299601	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	17299701	2
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	17319502	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	17327510	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18004840	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18010401	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18010801	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18041601	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18066901	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	18100801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18109601	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18109701	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18109801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18109901	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18116801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18139701	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	18147501	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18160101	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18168601	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18168801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18169001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18169101	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18169201	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18169301	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18169401	3
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	18173903	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	18174101	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18180801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18180901	2
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	18218102	4
Caesar & Loretz GmbH	Base cream, diluted	18240802	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	18242501	3
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	18242502	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	18242601	6
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	18242603	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18242901	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18243101	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18243201	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18243301	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18243402	9
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18243501	7
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18248101	5
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18248201	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18248202	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18248301	1
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	18259501	5
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	18259502	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	1828301	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	18286702	4
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	18286802	4
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18297301	6
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18297401	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18297501	5
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18297502	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18297902	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18298101	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18298201	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18298301	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18298401	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18298502	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18298701	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18298801	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18298901	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18299001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	18299101	3
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	18302501	10
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18320801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18320802	14
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18320803	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	18320901	8
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	1862282	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19000414001	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19000415001	4
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19000415003	3
Caesar & Loretz GmbH	Base cream, diluted	19000843001	1
Caesar & Loretz GmbH	Base cream, diluted	19000843002	3
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19002001	8
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19002002	4
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19002003	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19002502	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19002601	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19002703	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19002801	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19002802	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19002901	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19003001	2
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic...	19003824	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19003978	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19021401	12
Caesar & Loretz GmbH	Anionic hydrophilic cream SR...	19021402	6
Caesar & Loretz GmbH	Anionic hydrophilic cream SR...	19021404	1
Caesar & Loretz GmbH	Base cream, diluted	19025901	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19027401	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19027501	5
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19027502	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19027601	6
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19032002	4
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic...	19055601	7
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic...	19055602	7
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19058301	21
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19058401	15
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19058402	4
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19058501	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19071501	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19071601	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19071701	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19071801	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072001	10
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072101	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072201	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072301	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072401	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072501	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072601	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072701	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072801	16
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19072901	2
Caesar & Loretz GmbH	Anionic hydrophilic cream SR...	19093001	11
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic...	19093002	4
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19093601	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19093602	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19093701	17
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19093702	5
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19093801	7
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19093901	4
Caesar & Loretz GmbH	Base cream, diluted	19105602	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19115901	3
Caesar & Loretz GmbH	Anionic hydrophilic cream SR...	19123802	6
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19145601	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19145602	7
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19145603	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161001	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161101	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161201	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161301	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161401	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161501	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161601	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161701	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19161901	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19162001	10
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19162201	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19162301	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19162401	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19162601	1
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic...	19176501	4
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic...	19176502	7
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic...	19176504	2
Caesar & Loretz GmbH	Anionic hydrophilic cream SR...	19177102	5
Caesar & Loretz GmbH	Anionic hydrophilic cream SR...	19177103	3
Caesar & Loretz GmbH	Anionic hydrophilic cream SR...	19177104	1
Caesar & Loretz GmbH	Base cream, diluted	19190401	1
Caesar & Loretz GmbH	Base cream, diluted	19190403	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19191901	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19192001	7
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19192101	5
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19192201	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19192301	3
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19204801	13
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	19204802	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19206001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19206101	18
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19206201	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19206301	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19206401	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19206701	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19206801	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19206901	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19207001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19207101	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19207102	2
Caesar & Loretz GmbH	Base cream, diluted	19229801	2
Caesar & Loretz GmbH	Base cream, diluted	19229902	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19240001	6
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic...	19240002	12
Caesar & Loretz GmbH	Anionic hydrophilic cream SR...	19240103	3
Caesar & Loretz GmbH	Base cream, diluted	19253701	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	1925661	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19268202	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19268203	12
Caesar & Loretz GmbH	Anionic hydrophilic cream wi...	19268502	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19272301	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19272401	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19272505	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	1927260	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19272601	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19272701	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19272901	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19273001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	19273002	8
Caesar & Loretz GmbH	Base cream, diluted	19278901	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000027001	2
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20000027002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000028001	10
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	2000002801	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000029001	11
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000029100	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000031	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000032001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000033001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000037001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000038001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	200001675002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20000189001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20000190001	16
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20000191001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20000192001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20000193001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20000193002	18
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000311001	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000312001	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000313001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000314001	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000315001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000316001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000317001	9
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000318001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000319001	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000320001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000399001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000400001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000401001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000402001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000403001	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20000425001	3
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20000426001	12
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20000426002	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20000427001	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000494001	7
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20000522001	7
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20000522003	10
Caesar & Loretz GmbH	Base cream, diluted	20000701002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20000916003	3
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20000916004	7
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20000916005	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000924001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000924002	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000925001	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000926001	9
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000927001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000928001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000929001	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000930001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000931001	9
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20000932001	9
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	2000094002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20001034001	1
Caesar & Loretz GmbH	Base cream, diluted	20001059001	3
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20001228	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20001247001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20001248001	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20001249001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20001250001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20001251001	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001452001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001454001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001455001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001469001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001471001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001474001	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001475001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001480001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001480002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	2000148001	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20001590001	6
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20001591001	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20001592001	12
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20001593002	9
CAESAR & LORETZ GMBH	Base cream, diluted	20001667001	1
Caesar & Loretz GmbH	Base cream, diluted	20001669001	3
Caesar & Loretz GmbH	Base cream, diluted	20001670002	2
Caesar & Loretz GmbH	Base cream, diluted	20001670003	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001675001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001675002	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001676001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001676002	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20001781003	6
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20001781004	4
CAESAR & LORETZ GMBH	Anionic hydrophilic cream SR…	20001781004	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20001978001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20001979001	9
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20001979002	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002080001	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002081001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002082001	6
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20002226	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20002257001	3
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20002423004	5
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20002423005	2
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20002461003	5
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20002461004	1
Caesar & Loretz GmbH	Base cream, diluted	20002515002	1
Caesar & Loretz GmbH	Base cream, diluted	20002515004	4
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20002852001	4
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20002854002	3
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20002854003	10
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002942001	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002943001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002944001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002945002	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002946001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002947001	9
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002948001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002949001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20002949002	4
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20003015001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20003015003	1
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20003016002	3
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20003016003	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20003307001	13
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20003308001	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20003309001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20003309002	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20003445001	9
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20003445002	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20003445003	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	20003446002	2
Caesar & Loretz GmbH	Base cream, diluted	20003510001	2
Caesar & Loretz GmbH	Base cream, diluted	20003510002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20003746001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	20003746003	6
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20003746004	8
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20003955001	2
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	20003955002	5
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20004291001	6
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20004292001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20004293001	11
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20004293002	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	20004294001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20004456001	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20004457000	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20004457001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20004457002	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20004458001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20004459001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20004460001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20004461001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	20004462001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	2018018109701	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000287001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000290001	2
CAESAR & LORETZ GMBH	Anionic hydrophilic cream DAB	21000290001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000291001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000292001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000293001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000294001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000295001	2
CAESAR & LORETZ GMBH	Anionic hydrophilic cream DAB	21000295001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	21000339001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	21000339002	3
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	21000339003	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000374001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000375001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000375002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000376002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000377001	4
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21000396001	7
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21000397003	4
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21000399001	3
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	21000505001	5
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	21000505003	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	210006383001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21000681001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21000682001	7
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21000683001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21000684001	4
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21000685002	6
Caesar & Loretz GmbH	Base cream, diluted	21000785001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	21000806004	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000920001	9
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000921001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000921002	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000921003	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000922001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000923001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000924001	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000925001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000926001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000927001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000928001	7
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21000929001	4
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21001221001	3
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21001222003	7
CAESAR & LORETZ GMBH	Base cream, hydrophobic DAC	21001222003	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21001223001	5
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21001223002	3
Caesar & Loretz GmbH	Base cream, diluted	21001313001	1
Caesar & Loretz GmbH	Base cream, diluted	21001314001	3
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	21001333001	3
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	21001333002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	21001436001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001495001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001497001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001498001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001501001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001502001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001505001	4
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	21001752002	8
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001752003	4
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	21001808	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001810001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001812002	4
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001813001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001813002	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001814001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001815001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21001816001	4
Caesar & Loretz GmbH	Base cream, diluted	21001871001	5
Caesar & Loretz GmbH	Base cream, diluted	21001871002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21001941002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21001942001	6
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21001943001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21001943002	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21001947001	8
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21001947002	6
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21001949001	4
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	21002193003	5
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	21002193004	2
Caesar & Loretz GmbH	Base cream, diluted	21002416001	5
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21002623001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21002624001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21002629001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21002632002	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21002633001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21002635001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21002637001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21002641001	3
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21002644001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21002645002	6
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21002646001	2
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21002902001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21002902002	4
CAESAR & LORETZ GMBH	Anionic hydrophilic cream SR…	21003004002	2
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	21003004003	2
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	21003705003	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21003798001	7
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21003799001	5
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21003890001	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21003891001	3
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	21003891003	6
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21003944001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21003945001	10
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21003946001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21003947001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21003950001	2
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21003954001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21003955001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	21003957001	2
Caesar & Loretz GmbH	Base cream, diluted	21004060001	2
CAESAR & LORETZ GMBH	Base cream, diluted	21004062001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	21004209001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	22000013002	3
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	22000014003	2
Caesar & Loretz GmbH	Hydrophilic cream, non-ionic…	22000034003	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	22000345002	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	22000351001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	22000352001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	22000353001	1
Caesar & Loretz GmbH	Base cream, diluted	22000373001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	22001388001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	22001396002	1
Caesar & Loretz GmbH	Base cream, hydrophobic DAC	22002219001	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	289329	1
Caesar & Loretz GmbH	Wolff® base half-fat cream	810201	2
Caesar & Loretz GmbH	Wolff® base half-fat cream	810800	2
Caesar & Loretz GmbH	Anionic hydrophilic cream wi…	AP210204-02	1
Caesar & Loretz GmbH	Anionic hydrophilic cream SR…	AP210701-01	1
Caesar & Loretz GmbH	Anionic hydrophilic cream DAB	Caelo	1
Caesar & Loretz Hilden/…	Base cream, diluted	20001670002	1
Caesar & Loretz Hilden	Anionic hydrophilic cream DAB	18011001	1
Caesar & Loretz Hilden	Base cream, hydrophobic DAC	18173902	1
Caesar & Loretz Hilden	Base cream, hydrophobic DAC	1824501	1
Caesar & Loretz Hilden	Anionic hydrophilic cream wi…	18248101	1
Caesar & Loretz Hilden	Base cream, hydrophobic DAC	19000415001	1
Caesar & Loretz Hilden	Anionic hydrophilic cream DAB	19072301	1
Caesar & Loretz Hilden	Base cream, diluted	19229902	1
Caesar & Loretz Hilden	Base cream, hydrophobic DAC	20000427001	1
Caesar & Loretz Hilden2…	Base cream, hydrophobic DAC	20001592001	1
Caesar & Loretz/ Noweda	Anionic hydrophilic cream DAB	17299201	1
Caesar & Loretz/AHD	Anionic hydrophilic cream DAB	15319101	1
Caesar & Loretz/AHD	Base cream, hydrophobic DAC	16074901	1
Caesar & Loretz/AHD	Anionic hydrophilic cream DAB	17202001	1
Caesar & Loretz/Gehe	Base cream, hydrophobic DAC	19145601	1
Caesar & Loretz/Gehe	Anionic hydrophilic cream DAB	19206201	1
Caesar & Loretz/Gehe	Anionic hydrophilic cream SR…	19240001	1
Caesar & Loretz/Geilenk…	Anionic hydrophilic cream DAB	18298401	1
Caesar & Loretz/Geilenk…	Base cream, hydrophobic DAC	19000415001	1
Caesar & Loretz/Geilenk…	Anionic hydrophilic cream DAB	19162001	1
Caesar & Loretz/Geilenk…	Base cream, hydrophobic DAC	20002854003	1
Caesar & Loretz/Geilenk…	Anionic hydrophilic cream DAB	21000920001	1
Caesar & Loretz/Noweda	Base cream, hydrophobic DAC	16074802	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz/Noweda	Anionic hydrophilic cream DAB	16158901	1
Caesar & Loretz/Noweda	Anionic hydrophilic cream DAB	17088901	1
Caesar & Loretz/Noweda	Anionic hydrophilic cream SR...	19123802	1
Caesar & Loretz/Noweda	Hydrophilic cream, non-ionic...	295648	1
Caesar & Loretz/Phönix	Anionic hydrophilic cream DAB	19161101	1
Caesar & Loretz/Phönix	Base cream, hydrophobic DAC	19204802	1
Caesar & Loretz	Anionic hydrophilic cream DAB	13313301	1
Caesar & Loretz	Base cream, hydrophobic DAC	16075201	1
Caesar & Loretz	Base cream, hydrophobic DAC	16174201	1
Caesar & Loretz	Base cream, hydrophobic DAC	16293601	1
Caesar & Loretz	Anionic hydrophilic cream DAB	16322801	1
Caesar & Loretz	Anionic hydrophilic cream DAB	16328201	1
Caesar & Loretz	Anionic hydrophilic cream DAB	17088801	1
Caesar & Loretz	Hydrophilic cream, non-ionic...	17113403	1
Caesar & Loretz	Anionic hydrophilic cream DAB	17142601	1
Caesar & Loretz	Anionic hydrophilic cream DAB	17142801	1
Caesar & Loretz	Anionic hydrophilic cream DAB	17143501	1
Caesar & Loretz	Anionic hydrophilic cream DAB	17202101	1
Caesar & Loretz	Base cream, hydrophobic DAC	17255202	1
Caesar & Loretz	Hydrophilic cream, non-ionic...	17261002	1
Caesar & Loretz	Hydrophilic cream, non-ionic...	17294003	1
Caesar & Loretz	Anionic hydrophilic cream DAB	17299201	1
Caesar & Loretz	Anionic hydrophilic cream DAB	172992017	1
Caesar & Loretz	Anionic hydrophilic cream DAB	18010901	1
Caesar & Loretz	Hydrophilic cream, non-ionic...	18050501	1
Caesar & Loretz	Base cream, hydrophobic DAC	18051301	1
Caesar & Loretz	Anionic hydrophilic cream DAB	18139401	1
Caesar & Loretz	Anionic hydrophilic cream DAB	18169001	1
Caesar & Loretz	Base cream, hydrophobic DAC	18174101	1
Caesar & Loretz	Anionic hydrophilic cream wi...	18180901	1
Caesar & Loretz	Hydrophilic cream, non-ionic...	18218002	2
Caesar & Loretz	Anionic hydrophilic cream DAB	18242901	1
Caesar & Loretz	Anionic hydrophilic cream DAB	19071501	1
Caesar & Loretz	Base cream, diluted	20001667001	1
Caesar & Loretz	Base cream, hydrophobic DAC	20002854003	1
Caesar & Loretz7pHÖNIX	Anionic hydrophilic cream DAB	18243301	1
Caesar &Loretz GmbH	Hydrophilic cream, non-ionic...		1
Caesar Loretz	Anionic hydrophilic cream SR...	20001781004	1
Caesar Loretz	Anionic hydrophilic cream DAB	20002082001	1
Caesar Loretz	Base cream, hydrophobic DAC	20002853001	2
Caesar Loretz	Anionic hydrophilic cream DAB	21000927001	2
Caesar Loretz	Base cream, hydrophobic DAC	21001223002	1
Caesar und Loretz GmbH	Anionic hydrophilic cream DAB	19000618	1
Caesar und Loretz	Base cream, hydrophobic DAC	18100801	1
Caesar und Loretz	Base cream, hydrophobic DAC	19145602	1
Caesar&Lorenz	Anionic hydrophilic cream DAB	21002640001	1
Caesar&Loretz GmbH /Anzag	Base cream, hydrophobic DAC	15221301	1
Caesar&Loretz GmbH,26.0...	Anionic hydrophilic cream SR...	17045401	1
Caesar&Loretz GmbH,Phön...	Anionic hydrophilic cream SR...	16046501	1
caesar&Loretz GmbH,Phön...	Base cream, hydrophobic DAC	16165701	1
Caesar&Loretz GmbH,PHön...	Anionic hydrophilic cream SR...	17088801	1
Caesar&Loretz GmbH/Anzag	Base cream, hydrophobic DAC	14145301	1
Caesar&Loretz GmbH	Base cream, hydrophobic DAC	15221301	1
Caesar&Loretz GmbH	Anionic hydrophilic cream DAB	15357401	1
Caesar&Loretz GmbH	Anionic hydrophilic cream SR...	15386602	1
Caesar&Loretz GmbH	Anionic hydrophilic cream SR...	16019601	1
Caesar&Loretz GmbH	Anionic hydrophilic cream SR...	16107502	1
caesar&loretz GmbH	Hydrophilic cream, non-ionic...	18050401	2
Caesar&Loretz GmbH	Anionic hydrophilic cream SR...	18176103	1
Caesar&Loretz GmbH	Anionic hydrophilic cream DAB	20004457002	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar&loretz,Anzag	Anionic hydrophilic cream DAB	15258901	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	11320801	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	12010501	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	12314201	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	13128701	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	13363601	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	13364301	1
Caesar&loretz,Phoenix	Base cream, hydrophobic DAC	13386401	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream wi...	14030701	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	14118201	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	14139001	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	14233601	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	14285601	1
Caesar&loretz,Phoenix	Anionic hydrophilic cream DAB	14294801	1
Caesar&loretz,Phoenix	Base cream, hydrophobic DAC	14335502	1
Caesar&loretz,Phoenix	Base cream, hydrophobic DAC	15001002	1
Caesar&loretz,phönix,11...	Anionic hydrophilic cream SR...	16103101	3
Caesar&loretz,phönix	Anionic hydrophilic cream DAB	14186702	1
caesar&loretz,Phönix	Anionic hydrophilic cream DAB	15034301	1
Caesar&LoretzGmbH,11,03...	Anionic hydrophilic cream SR...	16322701	1
Caesar/Noweda	Base cream, hydrophobic DAC	15001002	1
Caeser und Loretz GmbH	Hydrophilic cream, non-ionic...	18259502	1
Caeser und Loretz GmbH	Anionic hydrophilic cream DAB	19161201	1
Caleo/ Ebert	Anionic hydrophilic cream DAB	18066701	1
Caleo/ Noweda	Hydrophilic cream, non-ionic...	19055602	1
Caleo/gehe	Anionic hydrophilic cream DAB	17248601	1
Caleo/Phoenix	Anionic hydrophilic cream SR...	21001752003	1
Caleo	Anionic hydrophilic cream DAB	17088701	1
caleo	Anionic hydrophilic cream DAB	17141901	2
Caleo	Base cream, hydrophobic DAC	17150402	1
Calo, Hilden/ Phönix	Anionic hydrophilic cream DAB	19206001	1
Calo/Sanacorp	Anionic hydrophilic cream DAB	16259302	1
calo	Base cream, hydrophobic DAC	13072602	3
calo	Anionic hydrophilic cream DAB	17269701	1
Calo	Hydrophilic cream, non-ionic...	203016002	1
Caolo / Kehr	Anionic hydrophilic cream DAB	20002081001	1
Cealo / Anzag	Base cream, diluted	2111217(21002417001)	1
Cealo / Anzag	Base cream, diluted	220321(2100406001)	1
Cealo / Anzag	Base cream, diluted	220906(22001361001)	1
Cealo / Jenne	Anionic hydrophilic cream DAB	211118(21001505001)	1
Cealo / Otto Geilenkirc...	Anionic hydrophilic cream wi...	19027501	1
Cealo / Otto Geilenkirc...	Anionic hydrophilic cream wi...	19027601	1
Cealo / Otto Geilenkirc...	Anionic hydrophilic cream wi...	19093702	1
Cealo/ AHD	Anionic hydrophilic cream SR...	16258601	1
Cealo/ Noweda	Base cream, diluted	19105604	2
Cealo/ Noweda	Base cream, diluted	19190403	1
Cealo/AHD	Anionic hydrophilic cream SR...	16107501	1
Cealo/AHD	Anionic hydrophilic cream DAB	19072401	1
Cealo/Anzag	Anionic hydrophilic cream DAB	15200401	1
Cealo/Anzag	Base cream, hydrophobic DAC	17255202	1
Cealo/GEHE	Base cream, hydrophobic DAC	18051101	1
Cealo/GEHE	Hydrophilic cream, non-ionic...	181775301	1
Cealo/Gehe	Anionic hydrophilic cream wi...	19093901	1
Cealo/Jenne	Anionic hydrophilic cream DAB	220322(21003956001)	1
Cealo/Jenne	Anionic hydrophilic cream DAB	220906(22001391001)	1
Cealo/Phönix	Wolff® base half-fat cream	339140	1
Cealo/Sanacorp	Anionic hydrophilic cream DAB	13275501	1
Cealo/Sanacorp	Anionic hydrophilic cream DAB	13364201	1
Cealo/Sanacorp	Anionic hydrophilic cream DAB	17248401	1
Cealo/Sanacorp	Anionic hydrophilic cream wi...	200000193002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Cealo	Anionic hydrophilic cream SR...	10A150517	1
Cealo	Anionic hydrophilic cream SR...	10A280317	1
Cealo	Anionic hydrophilic cream wi...	13165001	1
cealo	Base cream, hydrophobic DAC	13274902	1
Cealo	Anionic hydrophilic cream DAB	14118201	1
Cealo	Anionic hydrophilic cream wi...	14214201	1
Cealo	Anionic hydrophilic cream DAB	16250001	1
Cealo	Anionic hydrophilic cream wi...	1726202	1
cealo	Anionic hydrophilic cream DAB	18298401	1
Cealo	Anionic hydrophilic cream DAB	19161001	1
Cealo	Anionic hydrophilic cream DAB	20000402001	1
Cealo	Anionic hydrophilic cream DAB	21000920001	1
Cealo	Base cream, hydrophobic DAC	21001223001	1
Cealo	Anionic hydrophilic cream SR...	285899	1
Celo/Jenne	Base cream, hydrophobic DAC	21001223002	1
Celo	Anionic hydrophilic cream DAB	16250001	4
Chiesi / Sanacorp/EK: 6...	Wolff® base half-fat cream	506360	1
Chiesi GmbH	Wolff® base half-fat cream	703031	1
Chiesi	Wolff® base half-fat cream	1455A	1
Chiesi	Wolff® base half-fat cream	601880	1
Chiesi	Wolff® base half-fat cream	71370A	1
COM/Phoenix	Anionic hydrophilic cream DAB	20000927001	1
DAB 2008	Anionic hydrophilic cream DAB	12099901	1
DAB 2008	Anionic hydrophilic cream DAB	14264001	1
DAB	Anionic hydrophilic cream DAB	270951	1
Defektur Erythromycin W...	Wolff® base half-fat cream	K112022	2
Defektur	Anionic hydrophilic cream SR...	271711	1
devesa/Phönix	Wolff® base half-fat cream	801140	6
Doppeleiche Apotheke	Base cream, diluted	200714001	1
Dr Wolff / Anzag	Wolff® base half-fat cream	608180	1
Dr Wolff / Phönix	Wolff® base half-fat cream	801140	1
Dr Wolff / Sanacorp	Wolff® base half-fat cream	905120	2
Dr Wolff Arzneimittel	Wolff® base half-fat cream	704050	1
Dr Wolff Arzneimittel	Wolff® base half-fat cream	901920	1
Dr Wolff/ Alliance	Wolff® base half-fat cream	904880	1
Dr Wolff/ Gehe	Wolff® base half-fat cream	234791	1
Dr Wolff/ Gehe	Wolff® base half-fat cream	333930	1
Dr Wolff/ Sanacorp	Wolff® base half-fat cream	339140	1
Dr Wolff/Noweda	Wolff® base half-fat cream	511420	3
Dr Wolff/Noweda	Wolff® base half-fat cream	605700	4
dr wolff	Wolff® base half-fat cream	147400	1
Dr Wolff	Wolff® base half-fat cream	410400	1
Dr Wolff	Wolff® base half-fat cream	48882171377	1
Dr Wolff	Wolff® base half-fat cream	501080	1
Dr Wolff	Wolff® base half-fat cream	501470	2
Dr Wolff	Wolff® base half-fat cream	510400	1
Dr Wolff	Wolff® base half-fat cream	602050	1
Dr Wolff	Wolff® base half-fat cream	606050	3
Dr Wolff	Wolff® base half-fat cream	610991	1
Dr Wolff	Wolff® base half-fat cream	704220	1
Dr Wolff	Wolff® base half-fat cream	901920	3
Dr Wolff	Wolff® base half-fat cream	905120	1
Dr Wolff	Wolff® base half-fat cream	908620	1
Dr Wolff	Wolff® base half-fat cream	909810	1
DR Wolff	Wolff® base half-fat cream	909810	2
Dr, Wolff	Wolff® base half-fat cream	3542	1
Dr. A. Wolff GmbH & Co....	Wolff® base half-fat cream	905120	1
Dr. A. Wolff/Kehr	Wolff® base half-fat cream	438340	2
Dr. A.Wolff GmbH/Noweda	Wolff® base half-fat cream	608180	1
Dr. August Wolf GmbH&Co...	Wolff® base half-fat cream	807640	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Dr. August Wolf GmbH&Co...	Wolff® base half-fat cream	901920	3
Dr. August Wolf/Kehr	Wolff® base half-fat cream	910460	1
Dr. August Wolff / Nowe...	Wolff® base half-fat cream	10550	1
Dr. August Wolff Gmbh &...	Wolff® base half-fat cream		1
Dr. August Wolff GmbH &...	Wolff® base half-fat cream		1
Dr. August Wolff GmbH &...	Wolff® base half-fat cream	170519WBC/610991	1
Dr. August Wolff GmbH &...	Wolff® base half-fat cream	171113WBC/701451	1
Dr. August Wolff GmbH &...	Wolff® base half-fat cream	180312WB/705760	1
Dr. August Wolff GmbH &...	Wolff® base half-fat cream	807640	2
Dr. August Wolff GmbH &...	Wolff® base half-fat cream	711250	1
Dr. August Wolff GmbH &...	Wolff® base half-fat cream	606050	1
Dr. August Wolff GmbH &...	Wolff® base half-fat cream	143650	1
Dr. August Wolff GmbH /...	Wolff® base half-fat cream	7742	1
Dr. August Wolff GmbH /...	Wolff® base half-fat cream	147400	2
Dr. August Wolff GmbH /...	Wolff® base half-fat cream	152840	1
Dr. August Wolff GmbH /...	Wolff® base half-fat cream	7742	1
Dr. August Wolff GmbH /...	Wolff® base half-fat cream	801470	1
Dr. August Wolff GmbH B...	Wolff® base half-fat cream	10680	1
Dr. August Wolff GmbH B...	Wolff® base half-fat cream	147400	1
Dr. August Wolff GmbH/ ...	Wolff® base half-fat cream	705760	2
Dr. August Wolff GmbH/	Wolff® base half-fat cream	149110	2
Dr. August Wolff GmbH/P...	Wolff® base half-fat cream	10680	1
Dr. August Wolff GmbH/S...	Wolff® base half-fat cream	506361	1
Dr. August Wolff GmbH/S...	Wolff® base half-fat cream	810800	3
Dr. August Wolff GmbH/S...	Wolff® base half-fat cream	905120	2
Dr. August Wolff GmbH	Wolff® base half-fat cream	10680	3
Dr. August Wolff GmbH	Wolff® base half-fat cream	1110	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	140340	2
Dr. August Wolff GmbH	Wolff® base half-fat cream	141811	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	141812	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	152840	1
DR. August Wolff GmbH	Wolff® base half-fat cream	235200	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	506360	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	510400	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	511420	2
Dr. August Wolff GmbH	Wolff® base half-fat cream	602050	2
Dr. August Wolff GmbH	Wolff® base half-fat cream	606050	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	6480	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	703031	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	707500	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	7742	4
Dr. August Wolff GmbH	Wolff® base half-fat cream	805720	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	810800	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	905120	2
Dr. August Wolff GmbH	Wolff® base half-fat cream	910460	4
Dr. August Wolff GmbH	Wolff® base half-fat cream	911220	1
Dr. August Wolff GmbH	Wolff® base half-fat cream	D10550	1
Dr. August Wolff/ Phönix	Wolff® base half-fat cream	807640	1
Dr. August Wolff/Noweda	Wolff® base half-fat cream	141811	1
Dr. August Wolff/Noweda	Wolff® base half-fat cream	807580	1
Dr. August Wolff/Noweda	Wolff® base half-fat cream	904880	1
Dr. August Wolff/Phönix	Wolff® base half-fat cream	10680	6
Dr. August Wolff/Phönix	Wolff® base half-fat cream	707500	1
Dr. August Wolff/Phönix	Wolff® base half-fat cream	711250	2
Dr. August Wolff/Phönix	Wolff® base half-fat cream	805720	5
Dr. August Wolff/Phönix	Wolff® base half-fat cream	810800	5
Dr. August Wolff/Phönix	Wolff® base half-fat cream	904880	1
Dr. August Wolff/Phönix	Wolff® base half-fat cream	905120	2
Dr. August Wolff/Phönix	Wolff® base half-fat cream	910460	5
Dr. August Wolff/Sanaco...	Wolff® base half-fat cream	337260	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Dr. August Wolff/Sanaco...	Wolff® base half-fat cream	901920	1
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	10680	4
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	1110	1
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	140340	1
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	141812	1
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	143600	2
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	7742	1
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	901140	1
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	90488	1
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	904880	2
Dr. August Wolff/Sanacorp	Wolff® base half-fat cream	911220	1
Dr. August Wolff	Wolff® base half-fat cream	10550	2
Dr. August Wolff	Wolff® base half-fat cream	10680	2
Dr. August Wolff	Wolff® base half-fat cream	141811	1
Dr. August Wolff	Wolff® base half-fat cream	332040	5
Dr. August Wolff	Wolff® base half-fat cream	333930	2
Dr. August Wolff	Wolff® base half-fat cream	3542	3
Dr. August Wolff	Wolff® base half-fat cream	501080	2
Dr. August Wolff	Wolff® base half-fat cream	510400	4
Dr. August Wolff	Wolff® base half-fat cream	602050	5
Dr. August Wolff	Wolff® base half-fat cream	606050	1
Dr. August Wolff	Wolff® base half-fat cream	608180	2
Dr. August Wolff	Wolff® base half-fat cream	609950	1
Dr. August Wolff	Wolff® base half-fat cream	704050	1
Dr. August Wolff	Wolff® base half-fat cream	7091713	1
Dr. August Wolff	Wolff® base half-fat cream	804080	1
Dr. August Wolff	Wolff® base half-fat cream	901140	2
Dr. August Wolff	Wolff® base half-fat cream	904880	4
Dr. August Wolff	Wolff® base half-fat cream	906620	1
Dr. August Wolff	Wolff® base half-fat cream	908620	4
Dr. August Wolff	Wolff® base half-fat cream	909810	2
Dr. August Wolff	Wolff® base half-fat cream	911220	2
Dr. Augustus Wolff GmbH	Wolff® base half-fat cream	801140	1
Dr. Wolf/Phoenix	Wolff® base half-fat cream	704050	5
Dr. Wolf	Wolff® base half-fat cream	331551	1
Dr. Wolf	Wolff® base half-fat cream	6480	1
Dr. Wolff / Anzag	Wolff® base half-fat cream	601880	1
Dr. Wolff / Gehe	Wolff® base half-fat cream	801140	2
Dr. Wolff / Gehe	Wolff® base half-fat cream	805720	1
Dr. Wolff / Gehe	Wolff® base half-fat cream	807580	1
Dr. Wolff / Gehe	Wolff® base half-fat cream	810800	1
Dr. Wolff / Gehe	Wolff® base half-fat cream	901140	1
Dr. Wolff / Gehe	Wolff® base half-fat cream	904670	1
Dr. Wolff / GEHE	Wolff® base half-fat cream	909810	1
Dr. Wolff / Jenne	Wolff® base half-fat cream	908620	1
Dr. Wolff / Jenne	Wolff® base half-fat cream	911220	1
Dr. Wolff / Kehr	Wolff® base half-fat cream	438160	1
Dr. Wolff / Kehr	Wolff® base half-fat cream	510621	1
Dr. Wolff / Kehr	Wolff® base half-fat cream	602290	1
Dr. Wolff / Kehr	Wolff® base half-fat cream	605700	3
Dr. Wolff / Noweda	Wolff® base half-fat cream	1110	1
Dr. Wolff / Noweda	Wolff® base half-fat cream	810201	1
Dr. Wolff / Noweda	Wolff® base half-fat cream	901140	1
Dr. Wolff / Noweda	Wolff® base half-fat cream	901930	1
Dr. Wolff / OG	Wolff® base half-fat cream	608180	1
Dr. Wolff / Phönix	Wolff® base half-fat cream	3542	1
Dr. Wolff / Phönix	Wolff® base half-fat cream	801140	1
Dr. Wolff / Sanacorp	Wolff® base half-fat cream	810800	4
Dr. Wolff / Sanacorp	Wolff® base half-fat cream	905120	1
Dr. Wolff /Anzag	Wolff® base half-fat cream	232593	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Dr. Wolff /Anzag	Wolff® base half-fat cream	432611	1
Dr. Wolff /Noweda	Wolff® base half-fat cream	601880	1
Dr. Wolff GmbH/ Allianc...	Wolff® base half-fat cream	506360	1
Dr. Wolff GmbH/ Allianc...	Wolff® base half-fat cream	810800	1
Dr. Wolff GmbH/Fiebig	Wolff® base half-fat cream	807580	1
Dr. Wolff GmbH/Phönix	Wolff® base half-fat cream	711250	6
Dr. Wolff GmbH	Wolff® base half-fat cream	141811	1
Dr. Wolff GmbH	Wolff® base half-fat cream	501080	1
Dr. Wolff GmbH	Wolff® base half-fat cream	506360	3
Dr. Wolff GmbH	Wolff® base half-fat cream	909810	1
Dr. Wolff l/Noweda	Wolff® base half-fat cream	438340	2
Dr. Wolff l/Noweda	Wolff® base half-fat cream	901140	1
Dr. Wolff Spangro 26.08...	Wolff® base half-fat cream	238560	1
Dr. Wolff über Phönix	Wolff® base half-fat cream	10680	1
Dr. Wolff über Phönix	Wolff® base half-fat cream	141812	1
Dr. Wolff/ AHD	Wolff® base half-fat cream	143600	1
Dr. Wolff/ Alliance	Wolff® base half-fat cream	511420	1
Dr. Wolff/ Alliance	Wolff® base half-fat cream	608180	1
Dr. Wolff/ Alliance	Wolff® base half-fat cream	807640	1
Dr. Wolff/ Fiebig	Wolff® base half-fat cream	701080	1
Dr. Wolff/ Gehe	Wolff® base half-fat cream	143600	1
Dr. Wolff/ Gehe	Wolff® base half-fat cream	430880	1
Dr. Wolff/ Noweda	Wolff® base half-fat cream	605700	1
Dr. Wolff/ Noweda	Wolff® base half-fat cream	901930	1
Dr. Wolff/ Noweda	Wolff® base half-fat cream	904670	3
Dr. Wolff/ Noweda	Wolff® base half-fat cream	904880	1
Dr. Wolff/ Phoenix/ 25....	Wolff® base half-fat cream	140340	1
Dr. Wolff/ Sanacorp	Wolff® base half-fat cream	141811	1
Dr. Wolff/ Sanacorp	Wolff® base half-fat cream	143600	1
Dr. Wolff/ Sanacorp	Wolff® base half-fat cream	434360	1
Dr. Wolff/ Sanacorp	Wolff® base half-fat cream	7742	1
Dr. Wolff/ Sanacorp	Wolff® base half-fat cream	810201	1
Dr. Wolff/ Sanacorp	Wolff® base half-fat cream	904880	1
Dr. Wolff/ Sanacorp	Wolff® base half-fat cream	905120	7
Dr. Wolff/ Sanacorp	Wolff® base half-fat cream	910460	8
Dr. Wolff/AEP	Wolff® base half-fat cream	910460	1
Dr. Wolff/AHD	Wolff® base half-fat cream	332040	4
Dr. Wolff/Alliance	Wolff® base half-fat cream	511420	1
Dr. Wolff/Alliance	Wolff® base half-fat cream	608180	1
Dr. Wolff/Anzag	Wolff® base half-fat cream	238490	2
Dr. Wolff/Anzag	Wolff® base half-fat cream	810800	2
Dr. Wolff/Anzag	Wolff® base half-fat cream	905120	2
Dr. Wolff/Anzag	Wolff® base half-fat cream	910460	2
Dr. Wolff/Fiebig	Wolff® base half-fat cream	909810	1
Dr. Wolff/Fiebig	Wolff® base half-fat cream	9560	2
Dr. Wolff/Gehe	Wolff® base half-fat cream	141811	1
Dr. Wolff/Gehe	Wolff® base half-fat cream	147400	1
Dr. Wolff/Gehe	Wolff® base half-fat cream	3542	1
Dr. Wolff/Gehe	Wolff® base half-fat cream	436750	1
Dr. Wolff/Gehe	Wolff® base half-fat cream	608180	1
Dr. Wolff/Gehe	Wolff® base half-fat cream	707370	1
Dr. Wolff/Gehe	Wolff® base half-fat cream	805720	1
Dr. Wolff/Gehe	Wolff® base half-fat cream	810201	2
Dr. Wolff/Gehe	Wolff® base half-fat cream	901140	1
Dr. Wolff/Gehe	Wolff® base half-fat cream	910460	2
Dr. Wolff/Kehr	Wolff® base half-fat cream	1110	2
Dr. Wolff/Kehr	Wolff® base half-fat cream	149110	1
Dr. Wolff/Kehr	Wolff® base half-fat cream	609950	2
Dr. Wolff/Kehr	Wolff® base half-fat cream	702500	3
Dr. Wolff/Kehr	Wolff® base half-fat cream	707370	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Dr. Wolff/Kehr	Wolff® base half-fat cream	911220	1
Dr. Wolff/Noweda	Wolff® base half-fat cream	1110	1
Dr. Wolff/Noweda	Wolff® base half-fat cream	332040	6
Dr. wolff/Noweda	Wolff® base half-fat cream	431240	1
Dr. Wolff/Noweda	Wolff® base half-fat cream	438150	1
Dr. Wolff/Noweda	Wolff® base half-fat cream	438160	10
Dr. Wolff/Noweda	Wolff® base half-fat cream	438340	1
Dr. Wolff/Noweda	Wolff® base half-fat cream	602290	1
Dr. Wolff/Noweda	Wolff® base half-fat cream	705760	1
Dr. Wolff/Noweda	Wolff® base half-fat cream	707500	1
Dr. Wolff/Noweda	Wolff® base half-fat cream	904880	1
Dr. Wolff/Phoenix	Wolff® base half-fat cream	506360	1
Dr. Wolff/Phoenix	Wolff® base half-fat cream	609950	1
Dr. Wolff/Phoenix	Wolff® base half-fat cream	701080	1
Dr. Wolff/Phoenix	Wolff® base half-fat cream	702500	1
Dr. Wolff/Phoenix	Wolff® base half-fat cream	704220	1
Dr. Wolff/Phoenix	Wolff® base half-fat cream	711250	21
Dr. Wolff/Phoenix	Wolff® base half-fat cream	807640	2
Dr. Wolff/Phoenix	Wolff® base half-fat cream	901920	2
Dr. Wolff/Phoenix	Wolff® base half-fat cream	909810	1
Dr. Wolff/Phoenix	Wolff® base half-fat cream	9560	2
Dr. Wolff/Phönix	Wolff® base half-fat cream	501080	2
Dr. Wolff/Phönix	Wolff® base half-fat cream	6480	2
Dr. Wolff/Phönix	Wolff® base half-fat cream	804080	1
Dr. Wolff/Phönix	Wolff® base half-fat cream	805720	2
Dr. Wolff/Phönix	Wolff® base half-fat cream	807580	1
Dr. Wolff/Phönix	Wolff® base half-fat cream	904670	1
Dr. Wolff/Phönix	Wolff® base half-fat cream	911220	1
Dr. Wolff/Sanacorp	Wolff® base half-fat cream	333620	4
Dr. Wolff/Sanacorp	Wolff® base half-fat cream	801140	2
Dr. Wolff/Sanacorp	Wolff® base half-fat cream	910460	3
Dr. Wolff/V.d.L.	Wolff® base half-fat cream	430880	4
Dr. Wolff	Wolff® base half-fat cream	10061711	1
Dr. Wolff	Wolff® base half-fat cream	10112014F	1
Dr. Wolff	Wolff® base half-fat cream	1061803	1
Dr. Wolff	Wolff® base half-fat cream	10680	1
Dr. Wolff	Wolff® base half-fat cream	1091802	2
Dr. Wolff	Wolff® base half-fat cream	1110	1
Dr. Wolff	Wolff® base half-fat cream	11110	1
Dr. Wolff	Wolff® base half-fat cream	11121703	1
Dr. Wolff	Wolff® base half-fat cream	12051807	1
Dr. Wolff	Wolff® base half-fat cream	141811	3
Dr. Wolff	Wolff® base half-fat cream	143600	1
Dr. Wolff	Wolff® base half-fat cream	1436000	1
Dr. Wolff	Wolff® base half-fat cream	147400	5
Dr. Wolff	Wolff® base half-fat cream	148510	1
Dr. Wolff	Wolff® base half-fat cream	19011903	1
Dr. Wolff	Wolff® base half-fat cream	19011904	1
Dr. Wolff	Wolff® base half-fat cream	23071801	1
Dr. Wolff	Wolff® base half-fat cream	23101701	1
Dr. Wolff	Wolff® base half-fat cream	238560	3
Dr. Wolff	Anionic hydrophilic cream SR...	290528	1
Dr. Wolff	Wolff® base half-fat cream	331551	2
Dr. Wolff	Wolff® base half-fat cream	333930	1
Dr. Wolff	Wolff® base half-fat cream	337260	4
DR. WOLFF	Wolff® base half-fat cream	337260	1
Dr. Wolff	Wolff® base half-fat cream	3542	1
Dr. Wolff	Wolff® base half-fat cream	4051701	1
Dr. Wolff	Wolff® base half-fat cream	430880	1
Dr. Wolff	Wolff® base half-fat cream	431240	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Dr. Wolff	Wolff® base half-fat cream	432611	1
Dr. Wolff	Wolff® base half-fat cream	438160	3
Dr. Wolff	Wolff® base half-fat cream	501080	1
Dr. Wolff	Wolff® base half-fat cream	501082	1
Dr. Wolff	Wolff® base half-fat cream	501470	6
Dr. Wolff	Wolff® base half-fat cream	506361	1
Dr. Wolff	Wolff® base half-fat cream	510400	1
Dr. Wolff	Wolff® base half-fat cream	511420	3
Dr. Wolff	Wolff® base half-fat cream	602050	3
Dr. Wolff	Wolff® base half-fat cream	605551	2
Dr. Wolff	Wolff® base half-fat cream	605700	1
Dr. Wolff	Wolff® base half-fat cream	608180	7
DR. WOLFF	Wolff® base half-fat cream	609950	1
Dr. Wolff	Wolff® base half-fat cream	6480	1
Dr. Wolff	Wolff® base half-fat cream	701080	2
Dr. Wolff	Wolff® base half-fat cream	701451	1
Dr. Wolff	Wolff® base half-fat cream	704050	10
Dr. Wolff	Wolff® base half-fat cream	704220	1
Dr. Wolff	Wolff® base half-fat cream	711240	2
Dr. Wolff	Wolff® base half-fat cream	7742	1
Dr. Wolff	Wolff® base half-fat cream	801140	11
Dr. Wolff	Wolff® base half-fat cream	804080	1
Dr. Wolff	Wolff® base half-fat cream	805720	3
Dr. Wolff	Wolff® base half-fat cream	807580	2
Dr. Wolff	Wolff® base half-fat cream	807640	16
Dr. Wolff	Wolff® base half-fat cream	810201	2
Dr. Wolff	Wolff® base half-fat cream	810800	3
Dr. Wolff	Wolff® base half-fat cream	901140	2
Dr. Wolff	Wolff® base half-fat cream	901920	27
Dr. Wolff	Wolff® base half-fat cream	901930	2
Dr. Wolff	Wolff® base half-fat cream	904880	1
Dr. Wolff	Wolff® base half-fat cream	905120	2
Dr. Wolff	Wolff® base half-fat cream	909810	13
Dr. Wolff	Wolff® base half-fat cream	9098810	1
Dr. Wolff	Wolff® base half-fat cream	910460	3
Dr. Wolff	Wolff® base half-fat cream	910480	1
Dr. Wolff	Wolff® base half-fat cream	9560	27
DR. Wolff;VDL;20.4.16;4...	Wolff® base half-fat cream	511420	3
Dr. Wollf/Phönix	Wolff® base half-fat cream	510621	1
Dr. Wollff	Wolff® base half-fat cream	510400	1
Dr.A. Wolff, Sanacorp	Wolff® base half-fat cream	511420	2
Dr.A.Wolff/Gehe	Wolff® base half-fat cream	602290	1
Dr.A.Wolff/Phoenix	Wolff® base half-fat cream	10680	1
Dr.A.Wolff/Sanacorp	Wolff® base half-fat cream	301920	1
Dr.A.Wolff/Sanacorp	Wolff® base half-fat cream	801140	2
Dr.A.Wolff/Sanacorp	Wolff® base half-fat cream	807640	1
Dr.A.Wolff/Sanacorp	Wolff® base half-fat cream	901920	1
Dr.A.Wolff/Sanacorp	Wolff® base half-fat cream	909810	1
Dr.A.Wolff	Wolff® base half-fat cream	601880	1
Dr.August Wolff / Phönix	Wolff® base half-fat cream	901140	1
Dr.August Wolff / Phönix	Wolff® base half-fat cream	90512	1
Dr.August Wolff /Anzag	Wolff® base half-fat cream	8(810800)	1
Dr.August Wolff GmbH&Co...	Wolff® base half-fat cream	810800	1
Dr.August Wolff GmbH&Co...	Wolff® base half-fat cream	10680	2
Dr.August Wolff GmbH&Co...	Wolff® base half-fat cream	1110	1
Dr.August Wolff GmbH&Co...	Wolff® base half-fat cream	140340	1
Dr.August Wolff GmbH&Co...	Wolff® base half-fat cream	6480	3
Dr.August Wolff GmbH&Co...	Wolff® base half-fat cream	904670	1
Dr.August Wolff GmbH&Co...	Wolff® base half-fat cream	911220	1
Dr.August Wolff Gmbh&Co...	Wolff® base half-fat cream	801140	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Dr.August Wolff Gmbh&Co...	Wolff® base half-fat cream	807640	1
Dr.August Wolff Gmbh&Co...	Wolff® base half-fat cream	901920	1
Dr.August Wolff Gmbh&Co...	Wolff® base half-fat cream	704050	2
Dr.August Wolff GmbH/No...	Wolff® base half-fat cream	143650	1
Dr.August Wolff GmbH	Wolff® base half-fat cream	143650	1
Dr.August Wolff/ AHD	Wolff® base half-fat cream	141812	1
Dr.August Wolff/ Sanacorp	Wolff® base half-fat cream	10550	1
Dr.August Wolff/ Sanacorp	Wolff® base half-fat cream	10680	2
Dr.August Wolff/ Sanacorp	Wolff® base half-fat cream	7742	1
Dr.August Wolff/ Sanacorp	Wolff® base half-fat cream	807640	1
Dr.August Wolff/ Sanacorp	Wolff® base half-fat cream	910460	1
Dr.August Wolff/AHD	Wolff® base half-fat cream	707370	1
Dr.August Wolff/Alliance	Wolff® base half-fat cream	9560	1
Dr.August Wolff/Ebert	Wolff® base half-fat cream	511420	2
Dr.August Wolff/Gehe	Wolff® base half-fat cream	704050	2
Dr.August Wolff/Gehe	Wolff® base half-fat cream	909810	1
Dr.August Wolff/Phönix	Wolff® base half-fat cream	602050	3
Dr.August Wolff/Phönix	Wolff® base half-fat cream	901920	4
Dr.August Wolff/Phönix	Wolff® base half-fat cream	905120	1
Dr.August Wolff	Wolff® base half-fat cream	10550	1
Dr.August Wolff	Wolff® base half-fat cream	143650	24
Dr.August Wolff	Wolff® base half-fat cream	333620	1
Dr.August Wolff	Wolff® base half-fat cream	3542	1
Dr.August Wolff	Wolff® base half-fat cream	38800	1
Dr.August Wolff	Wolff® base half-fat cream	430880	1
Dr.August Wolff	Wolff® base half-fat cream	434360	1
Dr.August Wolff	Wolff® base half-fat cream	511420	1
Dr.August Wolff	Wolff® base half-fat cream	602050	2
Dr.August Wolff	Wolff® base half-fat cream	605700	1
Dr.August Wolff	Wolff® base half-fat cream	801140	1
Dr.August Wolff	Wolff® base half-fat cream	807640	1
Dr.August Wolff	Wolff® base half-fat cream	810201	1
Dr.August Wolff	Wolff® base half-fat cream	901140	2
Dr.August Wolff	Wolff® base half-fat cream	904880	4
Dr.August Wolff	Wolff® base half-fat cream	909810	1
Dr.August Wolff	Wolff® base half-fat cream	9560	1
Dr.August-Wolf/Kehr	Wolff® base half-fat cream	711250	2
Dr.August-Wolff/Phoenix	Wolff® base half-fat cream	904880	1
Dr.Wolf/Sanacorp	Wolff® base half-fat cream	711250	1
Dr.Wolff / AEP	Wolff® base half-fat cream	10680	1
Dr.Wolff / AHD	Wolff® base half-fat cream	608180	2
Dr.Wolff / Gehe	Wolff® base half-fat cream	10550	3
Dr.Wolff / Gehe	Wolff® base half-fat cream	141811	5
Dr.Wolff / Gehe	Wolff® base half-fat cream	3542	3
Dr.Wolff / Gehe	Wolff® base half-fat cream	705760	2
Dr.Wolff / Gehe	Wolff® base half-fat cream	7742	2
Dr.Wolff / Gehe	Wolff® base half-fat cream	904880	1
Dr.Wolff / Gehe	Wolff® base half-fat cream	905120	3
Dr.Wolff / Gehe	Wolff® base half-fat cream	908620	2
Dr.Wolff / Jenne	Wolff® base half-fat cream	3542	3
Dr.Wolff / Jenne	Wolff® base half-fat cream	810201	1
Dr.Wolff / Jenne	Wolff® base half-fat cream	901140	2
Dr.Wolff / Jenne	Wolff® base half-fat cream	904880	2
Dr.Wolff / Jenne	Wolff® base half-fat cream	905120	1
Dr.Wolff / Jenne	Wolff® base half-fat cream	908620	4
Dr.Wolff / Phoenix	Wolff® base half-fat cream	805720	1
Dr.Wolff / Phoenix	Wolff® base half-fat cream	810800	4
Dr.Wolff / Phoenix	Wolff® base half-fat cream	905120	3
Dr.Wolff / Phoenix	Wolff® base half-fat cream	910460	2
Dr.Wolff / Phönix	Wolff® base half-fat cream	707370	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Dr.Wolff / Phönix	Wolff® base half-fat cream	711250	1
Dr.Wolff / Sanacorp	Wolff® base half-fat cream	807640	2
Dr.Wolff /Alliance	Wolff® base half-fat cream	801140	1
Dr.Wolff /Gehe	Wolff® base half-fat cream	501870	1
Dr.Wolff /Kehr	Wolff® base half-fat cream	810201	2
Dr.Wolff GmbH & Co.KG /...	Wolff® base half-fat cream	909810	1
Dr.Wolff GmbH & Co.KG /...	Wolff® base half-fat cream	9560	4
Dr.Wolff GmbH & Co.KG /...	Wolff® base half-fat cream	143650	2
Dr.Wolff GmbH & Co.KG /...	Wolff® base half-fat cream	911220	1
Dr.Wolff GmbH & Co.KG A...	Wolff® base half-fat cream	432611	1
Dr.Wolff GmbH & Co.KG A...	Wolff® base half-fat cream	434581	1
Dr.Wolff GmbH & Co.KG A...	Wolff® base half-fat cream	438160	1
Dr.Wolff Phönix	Wolff® base half-fat cream	7742	1
Dr.Wolff/ Noweda	Wolff® base half-fat cream	701451	2
Dr.Wolff/ Alliance heal...	Wolff® base half-fat cream	77420	1
Dr.Wolff/ Alliance heal...	Wolff® base half-fat cream	805720	1
Dr.Wolff/ Anzag	Wolff® base half-fat cream	235200	1
Dr.Wolff/ Jenne	Wolff® base half-fat cream	905120	1
Dr.Wolff/ Noweda	Wolff® base half-fat cream	6480	1
Dr.Wolff/ Noweda	Wolff® base half-fat cream	701080	1
Dr.Wolff/ Noweda	Wolff® base half-fat cream	804080	1
Dr.Wolff/ Noweda	Wolff® base half-fat cream	904670	1
Dr.Wolff/ Phö	Wolff® base half-fat cream	801470	1
Dr.Wolff/ Phö	Wolff® base half-fat cream	901140	1
Dr.Wolff/ Phoenix	Wolff® base half-fat cream	501470	2
Dr.Wolff/	Wolff® base half-fat cream	605700	1
Dr.Wolff/AEP	Wolff® base half-fat cream	711250	1
Dr.Wolff/AHD 02.09.20 E...	Wolff® base half-fat cream	909810	1
Dr.Wolff/AHD	Wolff® base half-fat cream	143650	4
Dr.Wolff/AHD	Wolff® base half-fat cream	511420	4
Dr.Wolff/AHD	Wolff® base half-fat cream	606050	1
Dr.Wolff/AHD	Wolff® base half-fat cream	7(702500)	1
Dr.Wolff/AHD	Wolff® base half-fat cream	704050	2
Dr.Wolff/AHD	Wolff® base half-fat cream	707500	1
Dr.Wolff/AHD	Wolff® base half-fat cream	801140	2
Dr.Wolff/AHD	Wolff® base half-fat cream	804080	1
Dr.Wolff/AHD	Wolff® base half-fat cream	901920	5
Dr.Wolff/AHD	Wolff® base half-fat cream	901930	1
Dr.Wolff/AHD	Wolff® base half-fat cream	9500	1
Dr.Wolff/AHD	Wolff® base half-fat cream	9560	5
DR.WOLFF/Alliance	Wolff® base half-fat cream	10550	1
DR.WOLFF/Alliance	Wolff® base half-fat cream	140340	1
Dr.Wolff/Alliance	Wolff® base half-fat cream	704050	4
Dr.Wolff/Alliance	Wolff® base half-fat cream	909810	1
Dr.Wolff/Anzag	Wolff® base half-fat cream	608180	1
Dr.Wolff/Ebert	Wolff® base half-fat cream	602290	1
Dr.Wolff/Fiebig 05.02....	Wolff® base half-fat cream	911220	1
Dr.Wolff/Fiebig	Wolff® base half-fat cream	704050	1
Dr.Wolff/Fiebig	Wolff® base half-fat cream	801140	1
Dr.Wolff/Fiebig	Wolff® base half-fat cream	807640	2
Dr.Wolff/Fiebig	Wolff® base half-fat cream	901920	3
Dr.Wolff/Fiebig	Wolff® base half-fat cream	905120	1
Dr.Wolff/Gehe 21.1.21 5...	Wolff® base half-fat cream	143650	2
Dr.wolff/Gehe/ 48,48	Wolff® base half-fat cream	807640	4
Dr.Wolff/Gehe	Wolff® base half-fat cream		1
Dr.Wolff/Gehe	Wolff® base half-fat cream	1110	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	238660	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	3542	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	506360	2
Dr.Wolff/Gehe	Wolff® base half-fat cream	601140	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Dr.Wolff/Gehe	Wolff® base half-fat cream	602050	3
Dr.Wolff/Gehe	Wolff® base half-fat cream	605551	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	608180	2
Dr.Wolff/Gehe	Wolff® base half-fat cream	6480	2
Dr.Wolff/Gehe	Wolff® base half-fat cream	701451	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	705760	2
Dr.Wolff/Gehe	Wolff® base half-fat cream	810800	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	901140	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	901930	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	904880	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	908620	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	910460	1
Dr.Wolff/Gehe	Wolff® base half-fat cream	911220	1
Dr.Wolff/Jenne	Wolff® base half-fat cream	810201	2
Dr.Wolff/Jenne	Wolff® base half-fat cream	901920	2
Dr.Wolff/Jenne	Wolff® base half-fat cream	905120	1
Dr.Wolff/Jenne	Wolff® base half-fat cream	909810	2
Dr.Wolff/Jenne	Wolff® base half-fat cream	9560	2
Dr.Wolff/Kehr	Wolff® base half-fat cream	707370	1
Dr.Wolff/NOW	Wolff® base half-fat cream	10680	1
Dr.Wolff/NOW	Wolff® base half-fat cream	432611	1
Dr.Wolff/NOW	Wolff® base half-fat cream	434581	1
Dr.Wolff/NOW	Wolff® base half-fat cream	7077370	1
Dr.Wolff/Noweda	Wolff® base half-fat cream		1
Dr.Wolff/Noweda	Wolff® base half-fat cream	10680	2
Dr.Wolff/Noweda	Wolff® base half-fat cream	1110	2
Dr.Wolff/Noweda	Wolff® base half-fat cream	147400	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	170420WBC/605551	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	170616WBC/610991	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	170920WBC/610991	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	234791	2
Dr.Wolff/Noweda	Wolff® base half-fat cream	238660	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	333930	2
Dr.Wolff/Noweda	Wolff® base half-fat cream	434360	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	506360	3
Dr.Wolff/Noweda	Wolff® base half-fat cream	610991	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	701080	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	704220	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	705760	6
Dr.Wolff/Noweda	Wolff® base half-fat cream	7742	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	805720	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	807580	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	810800	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	904670	4
Dr.Wolff/Noweda	Wolff® base half-fat cream	909810	2
Dr.Wolff/Noweda	Wolff® base half-fat cream	910460	2
Dr.Wolff/Noweda	Wolff® base half-fat cream	911220	1
Dr.Wolff/Noweda	Wolff® base half-fat cream	9560	2
Dr.Wolff/Phoenix	Wolff® base half-fat cream	10550	1
Dr.Wolff/Phoenix	Wolff® base half-fat cream	1110	1
Dr.Wolff/Phoenix	Wolff® base half-fat cream	140340	3
Dr.Wolff/Phoenix	Wolff® base half-fat cream	64680	1
Dr.Wolff/Phönix	Wolff® base half-fat cream	10550	2
Dr.Wolff/Phönix	Wolff® base half-fat cream	10680	5
Dr.Wolff/Phönix	Wolff® base half-fat cream	143600	5
Dr.Wolff/Phönix	Wolff® base half-fat cream	6081800	1
Dr.Wolff/Phönix	Wolff® base half-fat cream	610991	5
Dr.Wolff/Phönix	Wolff® base half-fat cream	6480	1
Dr.Wolff/Phönix	Wolff® base half-fat cream	704050	2
Dr.Wolff/Phönix	Wolff® base half-fat cream	707370	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Dr.Wolff/Phönix	Wolff® base half-fat cream	711250	3
Dr.Wolff/Phönix	Wolff® base half-fat cream	7742	1
Dr.Wolff/Phönix	Wolff® base half-fat cream	801470	1
Dr.Wolff/Phönix	Wolff® base half-fat cream	805720	1
Dr.Wolff/Phönix	Wolff® base half-fat cream	807580	1
Dr.Wolff/Phönix	Wolff® base half-fat cream	807640	2
Dr.Wolff/Phönix	Wolff® base half-fat cream	810800	2
Dr.Wolff/Phönix	Wolff® base half-fat cream	901920	1
Dr.Wolff/Phönix	Wolff® base half-fat cream	905120	3
Dr.Wolff/Phönix	Wolff® base half-fat cream	910460	3
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	1110	4
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	140340	2
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	333620	1
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	434360	1
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	608180	3
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	704050	4
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	711250	1
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	807640	1
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	909810	1
Dr.Wolff/Sanacorp	Wolff® base half-fat cream	911220	1
Dr.Wolff/Spangro	Wolff® base half-fat cream	807640	1
Dr.Wolff	Wolff® base half-fat cream		1
DR.Wolff	Wolff® base half-fat cream	10680	1
Dr.Wolff	Wolff® base half-fat cream	1110	2
Dr.Wolff	Wolff® base half-fat cream	12081508	1
Dr.Wolff	Wolff® base half-fat cream	140340	1
Dr.Wolff	Wolff® base half-fat cream	141811	1
Dr.Wolff	Wolff® base half-fat cream	143600	3
Dr.Wolff	Wolff® base half-fat cream	143650	1
Dr.Wolff	Wolff® base half-fat cream	147400	2
Dr.Wolff	Wolff® base half-fat cream	236320	1
Dr.Wolff	Wolff® base half-fat cream	236420	1
Dr.Wolff	Wolff® base half-fat cream	238560	2
Dr.Wolff	Wolff® base half-fat cream	332040	11
Dr.Wolff	Wolff® base half-fat cream	333620	5
Dr.Wolff	Wolff® base half-fat cream	333930	2
Dr.Wolff	Wolff® base half-fat cream	337260	1
Dr.Wolff	Wolff® base half-fat cream	339140	1
Dr.Wolff	Wolff® base half-fat cream	431240	2
Dr.wolff	Wolff® base half-fat cream	432611	1
Dr.Wolff	Wolff® base half-fat cream	434581	1
Dr.Wolff	Wolff® base half-fat cream	438160	2
Dr.Wolff	Wolff® base half-fat cream	438340	1
Dr.Wolff	Wolff® base half-fat cream	501080	1
Dr.Wolff	Wolff® base half-fat cream	506360	1
Dr.Wolff	Wolff® base half-fat cream	510400	1
Dr.Wolff	Wolff® base half-fat cream	601880	1
Dr.Wolff	Wolff® base half-fat cream	605551	2
Dr.Wolff	Wolff® base half-fat cream	605700	1
Dr.Wolff	Wolff® base half-fat cream	606050	4
Dr.Wolff	Wolff® base half-fat cream	608180	2
Dr.Wolff	Wolff® base half-fat cream	609950-20170704Ma5	1
Dr.Wolff	Wolff® base half-fat cream	610991	2
Dr.Wolff	Wolff® base half-fat cream	6480	2
Dr.Wolff	Wolff® base half-fat cream	701080	8
Dr.Wolff	Wolff® base half-fat cream	701451	2
Dr.Wolff	Wolff® base half-fat cream	702500	1
Dr.Wolff	Wolff® base half-fat cream	704050	2
Dr.Wolff	Wolff® base half-fat cream	704220	4
Dr.Wolff	Wolff® base half-fat cream	707370	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Dr.Wolff	Wolff® base half-fat cream	707500	3
Dr.Wolff	Wolff® base half-fat cream	7075020	1
Dr.Wolff	Wolff® base half-fat cream	711240	3
Dr.WOlff	Wolff® base half-fat cream	7741	1
Dr.Wolff	Wolff® base half-fat cream	801140	5
Dr.Wolff	Wolff® base half-fat cream	807580	5
Dr.Wolff	Wolff® base half-fat cream	807640	5
Dr.Wolff	Wolff® base half-fat cream	810201	1
Dr.Wolff	Wolff® base half-fat cream	810800	1
Dr.Wolff	Wolff® base half-fat cream	901140	1
Dr.Wolff	Wolff® base half-fat cream	901920	2
Dr.Wolff	Wolff® base half-fat cream	901930	2
Dr.Wolff	Wolff® base half-fat cream	904670	8
Dr.Wolff	Wolff® base half-fat cream	904880	1
Dr.Wolff	Wolff® base half-fat cream	905120	2
Dr.Wolff	Wolff® base half-fat cream	909810	6
Dr.Wolff	Wolff® base half-fat cream	910460	1
DR.Wolff	Wolff® base half-fat cream	910460	1
Dr.Wolff	Wolff® base half-fat cream	9560	2
Ebert & Jacobi	Anionic hydrophilic cream DAB	18001562	1
Ebert & Jacobi	Base cream, hydrophobic DAC	18051101	1
Ebert u. Jacobi 16.0...	Base cream, hydrophobic DAC	160130	1
Ebert und Jacobi	Anionic hydrophilic cream DAB	18243402	1
Ebert und Jacobi	Anionic hydrophilic cream wi...	18297501	2
Ebert/Pharmachem	Base cream, hydrophobic DAC	170008	1
Ebert-Jacobi	Anionic hydrophilic cream DAB	16259201	1
Ebert-Jacobi	Hydrophilic cream, non-ionic...	309904	1
eigene Herstellung	Anionic hydrophilic cream DAB	100214-4	1
eigene Herstellung	Anionic hydrophilic cream DAB	2/270114	1
Eigene Herstellung	Anionic hydrophilic cream SR...	2014030214	1
Eigene	Hydrophilic cream, non-ionic...	R12/0313	1
Eigenherstellung	Anionic hydrophilic cream SR...	3812E-07664	1
Eigenherstellung	Anionic hydrophilic cream SR...	4012Q-07664	1
Eimermacher	Anionic hydrophilic cream DAB	308406	1
EuRho/Noweda	Anionic hydrophilic cream SR...	18001681	1
EuRho	Anionic hydrophilic cream wi...	17262101	1
EuRho	Anionic hydrophilic cream DAB	18116801	1
EuRho	Anionic hydrophilic cream SR...	29A100815	1
EURO OGT / Anzag	Anionic hydrophilic cream SR...	292977	1
Euro OTC	Base cream, hydrophobic DAC		3
Euro OTC	Anionic hydrophilic cream DAB	135464	1
Euro OTC	Hydrophilic cream, non-ionic...	13B310718	2
Euro OTC	Anionic hydrophilic cream wi...	14030701	1
Euro OTC	Anionic hydrophilic cream DAB	14233201	1
Euro OTC	Anionic hydrophilic cream wi...	14334501	1
Euro OTC	Transdermal base cream	1507997	1
Euro OTC	Anionic hydrophilic cream wi...	15273101	1
Euro OTC	Anionic hydrophilic cream DAB	15401302	1
Euro OTC	Anionic hydrophilic cream DAB	16046701	1
Euro OTC	Anionic hydrophilic cream DAB	16046901	1
Euro OTC	Anionic hydrophilic cream DAB	16057401	3
Euro OTC	Anionic hydrophilic cream wi...	16067801	1
Euro OTC	Anionic hydrophilic cream DAB	16103401	1
Euro OTC	Anionic hydrophilic cream DAB	16150801	1
Euro OTC	Anionic hydrophilic cream DAB	16156201	1
Euro OTC	Anionic hydrophilic cream DAB	16158901	1
Euro OTC	Base cream, hydrophobic DAC	16165501	3
Euro OTC	Anionic hydrophilic cream wi...	16191601	2
Euro OTC	Anionic hydrophilic cream wi...	16290301	1
Euro OTC	Base cream, hydrophobic DAC	16293901	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Anionic hydrophilic cream DAB	16322701	1
Euro OTC	Anionic hydrophilic cream SR...	16332001	2
Euro OTC	Anionic hydrophilic cream SR...	17000161	1
Euro OTC	Anionic hydrophilic cream SR...	17000166	1
Euro OTC	Anionic hydrophilic cream DAB	17000489	1
Euro OTC	Hydrophilic cream, non-ionic...	17000742	1
Euro OTC	Hydrophilic cream, non-ionic...	17000743	3
Euro OTC	Anionic hydrophilic cream DAB	17001307	1
Euro OTC	Anionic hydrophilic cream DAB	17001311	1
Euro OTC	Anionic hydrophilic cream SR...	17001695	2
Euro OTC	Anionic hydrophilic cream wi...	17030301	1
Euro OTC	Anionic hydrophilic cream wi...	17102301	3
Euro OTC	Anionic hydrophilic cream DAB	17142002	1
Euro OTC	Anionic hydrophilic cream DAB	17142101	1
Euro OTC	Anionic hydrophilic cream DAB	17143201	1
Euro OTC	Anionic hydrophilic cream DAB	17143301	1
Euro OTC	Base cream, hydrophobic DAC	17150401	1
Euro OTC	Base cream, hydrophobic DAC	171816	1
Euro OTC	Anionic hydrophilic cream DAB	17202101	1
Euro OTC	Anionic hydrophilic cream DAB	17202301	2
Euro OTC	Base cream, hydrophobic DAC	17255401	1
Euro OTC	Anionic hydrophilic cream wi...	17262101	1
Euro OTC	Anionic hydrophilic cream wi...	17262201	1
Euro OTC	Anionic hydrophilic cream DAB	17270001	1
Euro OTC	Anionic hydrophilic cream DAB	17270401	1
Euro OTC	Anionic hydrophilic cream DAB	17299101	1
Euro OTC	Anionic hydrophilic cream DAB	18000257	1
Euro OTC	Hydrophilic cream, non-ionic...	18002063	1
Euro OTC	Base cream, hydrophobic DAC	18002830	1
Euro OTC	Anionic hydrophilic cream SR...	18006632	1
Euro OTC	Anionic hydrophilic cream wi...	18041601	1
Euro OTC	Hydrophilic cream, non-ionic...	18050303	1
Euro OTC	Base cream, hydrophobic DAC	18051001	1
Euro OTC	Anionic hydrophilic cream DAB	18066901	1
Euro OTC	Base cream, hydrophobic DAC	180757	2
Euro OTC	Anionic hydrophilic cream DAB	18168501	1
Euro OTC	Hydrophilic cream, non-ionic...	18175301	1
Euro OTC	Base cream, hydrophobic DAC	18242601	1
Euro OTC	Anionic hydrophilic cream DAB	18243301	1
Euro OTC	Anionic hydrophilic cream DAB	18298201	1
Euro OTC	Hydrophilic cream, non-ionic...	19000218	1
Euro OTC	Hydrophilic cream, non-ionic...	19002041	1
Euro OTC	Base cream, hydrophobic DAC	190206	1
Euro OTC	Base cream, hydrophobic DAC	19H21-T08-071096	1
Euro OTC	Anionic hydrophilic cream SR...	1A070119	1
Euro OTC	Hydrophilic cream, non-ionic...	21B081117	1
Euro OTC	Anionic hydrophilic cream DAB	237563	1
Euro OTC	Hydrophilic cream, non-ionic...	25A120712	3
Euro OTC	Anionic hydrophilic cream DAB	260416v2	1
Euro OTC	Anionic hydrophilic cream SR...	276074	1
Euro OTC	Anionic hydrophilic cream SR...	286838	1
Euro OTC	Anionic hydrophilic cream SR...	286975	1
Euro OTC	Anionic hydrophilic cream DAB	288658	1
Euro OTC	Hydrophilic cream, non-ionic...	291388	1
Euro OTC	Hydrophilic cream, non-ionic...	292737	1
Euro OTC	Anionic hydrophilic cream SR...	296410	2
Euro OTC	Hydrophilic cream, non-ionic...	298983	3
Euro OTC	Skin care ointment W/L SR	300316	1
Euro OTC	Anionic hydrophilic cream DAB	300352	1
Euro OTC	Base cream, hydrophobic DAC	300415	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Anionic hydrophilic cream SR...	300563	1
Euro OTC	Anionic hydrophilic cream SR...	302199	1
Euro OTC	Anionic hydrophilic cream DAB	305372	1
Euro OTC	Hydrophilic cream, non-ionic...	306131	1
Euro OTC	Anionic hydrophilic cream SR...	306433	1
Euro OTC	Anionic hydrophilic cream SR...	308212	1
Euro OTC	Anionic hydrophilic cream DAB	310266	1
Euro OTC	Hydrophilic cream, non-ionic...	310514	3
Euro OTC	Anionic hydrophilic cream DAB	311124	1
Euro OTC	Wolff® base half-fat cream	510400	1
Euro OTC	Wolff® base half-fat cream	602290	2
Euro OTC	Wolff® base half-fat cream	703031	3
Euro OTC	Wolff® base half-fat cream	711240	1
euro//Noweda	Anionic hydrophilic cream wi...	18041501	1
EUro/AHD	Hydrophilic cream, non-ionic...	277577	1
EUro/AHD	Hydrophilic cream, non-ionic...	34A240713	1
Euro/Gehe	Wolff® base half-fat cream	431050	1
EuRoh/ Gehe	Anionic hydrophilic cream SR...	1A0700119	1
Fagon/Noweda	Hydrophilic cream, non-ionic...	16A020518	1
Fagro	Transdermal base cream	14J08-T12-016301	2
Fagron	Hydrophilic cream, non-ionic...	1017Q-03195	1
Fagron	Hydrophilic cream, non-ionic...	10A130416	1
Fagron	Hydrophilic cream, non-ionic...	10A240418	2
Fagron	Hydrophilic cream, non-ionic...	11A040520	3
Fagron	Hydrophilic cream, non-ionic...	11A180416	1
Fagron	Hydrophilic cream, non-ionic...	11A190721	2
Fagron	Hydrophilic cream, non-ionic...	11A250418	3
Fagron	Hydrophilic cream, non-ionic...	12/26-M06	1
Fagron	Anionic hydrophilic cream DAB	12265501	1
Fagron	Anionic hydrophilic cream DAB	12313202	1
Fagron	Hydrophilic cream, non-ionic...	12A020315	1
Fagron	Hydrophilic cream, non-ionic...	12A180416	3
Fagron	Base cream, hydrophobic DAC	12D10-T02	1
Fagron	Transdermal base cream	12F19-U15-273303	1
Fagron	Base cream, hydrophobic DAC	12G026-0001	1
Fagron	Base cream, hydrophobic DAC	12G09-T03	2
Fagron	Transdermal base cream	12H17-T02-000281	1
Fagron	Transdermal base cream	12H17-T02-005161	2
Fagron	Hydrophilic cream, non-ionic...	12J04-M06	1
Fagron	Base cream, hydrophobic DAC	12J24-T01	5
Fagron	Hydrophilic cream, non-ionic...	13A180416	2
Fagron	Hydrophilic cream, non-ionic...	13A250313	1
Fagron	Hydrophilic cream, non-ionic...	13A260418	2
Fagron	Hydrophilic cream, non-ionic...	13A30-M01	1
Fagron	Base cream, hydrophobic DAC	13B04-T17-001037	4
Fagron	Base cream, hydrophobic DAC	13B04-T17-001040	1
Fagron	Hydrophilic cream, non-ionic...	13B06-M08	1
Fagron	Hydrophilic cream, non-ionic...	13D05-M07	2
Fagron	Hydrophilic cream, non-ionic...	13D05M08	1
Fagron	Hydrophilic cream, non-ionic...	13D05-M08	1
Fagron	Hydrophilic cream, non-ionic...	13D05-M09	1
Fagron	Hydrophilic cream, non-ionic...	13D05-M12	1
Fagron	Hydrophilic cream, non-ionic...	13D18-M06	2
Fagron	Hydrophilic cream, non-ionic...	13D18-M09	2
Fagron	Hydrophilic cream, non-ionic...	13D18-M10	2
Fagron	Base cream, hydrophobic DAC	13E13T01003619	1
Fagron	Base cream, hydrophobic DAC	13E13-T01-003619	6
Fagron	Base cream, hydrophobic DAC	13E13-T01-003620	1
Fagron	Base cream, hydrophobic DAC	13E13-T06-006	2
Fagron	Transdermal base cream	13G17-T03-005497	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Transdermal base cream	13G17-T03-010523	1
Fagron	Base cream, hydrophobic DAC	13H13T06	1
Fagron	Base cream, hydrophobic DAC	13H13-T06	2
Fagron	Base cream, hydrophobic DAC	13H13-T06-006165	5
Fagron	Hydrophilic cream, non-ionic...	13K12-M04	1
Fagron	Hydrophilic cream, non-ionic...	13K12-M05	1
Fagron	Hydrophilic cream, non-ionic...	13K15-M07	1
Fagron	Hydrophilic cream, non-ionic...	13K15-M09	1
Fagron	Hydrophilic cream, non-ionic...	13K20-M09	1
Fagron	Hydrophilic cream, non-ionic...	13K20-M10	1
Fagron	Hydrophilic cream, non-ionic...	13K20-M11	1
Fagron	Base cream, hydrophobic DAC	13T13-T06-006166	1
Fagron	Anionic hydrophilic cream DAB	14016602	1
Fagron	Hydrophilic cream, non-ionic...	141114a	1
Fagron	Anionic hydrophilic cream DAB	14186601	1
Fagron	Base cream, hydrophobic DAC	14215701	2
Fagron	Anionic hydrophilic cream DAB	14232801	1
Fagron	Base cream, hydrophobic DAC	14A06-T07-009033	3
Fagron	Base cream, hydrophobic DAC	14A06-T08-009037	6
Fagron	Base cream, hydrophobic DAC	14A06T08009038	1
Fagron	Hydrophilic cream, non-ionic...	14A110619	2
Fagron	Hydrophilic cream, non-ionic...	14A190416	2
Fagron	Hydrophilic cream, non-ionic...	14A300148	1
Fagron	Hydrophilic cream, non-ionic...	14a300418	1
Fagron	Hydrophilic cream, non-ionic...	14A300418	3
Fagron	Transdermal base cream	14B27-T01-010612	3
Fagron	Transdermal base cream	14B27-T010612	1
Fagron	Transdermal base cream	14B27-To1-010612	1
Fagron	Transdermal base cream	14C14-T03	1
Fagron	Transdermal base cream	14C14-T03-011060	1
Fagron	Hydrophilic cream, non-ionic...	14d28-m01	1
Fagron	Hydrophilic cream, non-ionic...	14D28-M01	1
Fagron	Hydrophilic cream, non-ionic...	14D28-M02	1
Fagron	Hydrophilic cream, non-ionic...	14D28-M03	1
Fagron	Hydrophilic cream, non-ionic...	14D28-M04	1
Fagron	Hydrophilic cream, non-ionic...	14D28-M05	2
Fagron	Hydrophilic cream, non-ionic...	14D28-M05	1
Fagron	Hydrophilic cream, non-ionic...	14D28-M09	2
Fagron	Hydrophilic cream, non-ionic...	14D28-Mo2	1
Fagron	Hydrophilic cream, non-ionic...	14D28-Mo9	1
Fagron	Base cream, hydrophobic DAC	14E06-T13-01220	1
Fagron	Base cream, hydrophobic DAC	14E06-T13-012209	1
Fagron	Hydrophilic cream, non-ionic...	14E07	1
Fagron	Hydrophilic cream, non-ionic...	14E07-M10	1
Fagron	Hydrophilic cream, non-ionic...	14E14-M06	1
Fagron	Base cream, hydrophobic DAC	14H04-T05	1
Fagron	Base cream, hydrophobic DAC	14H04-T05-014482	8
Fagron	Transdermal base cream	14H19-T07-014889	1
Fagron	Transdermal base cream	14K21-T03-017364	2
Fagron	Base cream, hydrophobic DAC	14l18-T21-018124	1
Fagron	Base cream, hydrophobic DAC	14L18-T21-018124	7
Fagron	Base cream, hydrophobic DAC	14L18-T21-018125	1
Fagron	Base cream, hydrophobic DAC	14L18-T21-018127	1
Fagron	Base cream, hydrophobic DAC	15/13-T01-026887	3
Fagron	Transdermal base cream	1504065	20
Fagron	Transdermal base cream	1507997	9
Fagron	Anionic hydrophilic cream SR...	15172901	1
Fagron	Anionic hydrophilic cream DAB	15267401	2
Fagron	Hydrophilic cream, non-ionic...	15A110619	3
Fagron	Hydrophilic cream, non-ionic...	15A200416	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Hydrophilic cream, non-ionic…	15A-200416	1
Fagron	Transdermal base cream	15A28-T08-018917	1
Fagron	Transdermal base cream	15A28-T08-018919	1
Fagron	Transdermal base cream	15A28-T10-018922	10
Fagron	Anionic hydrophilic cream SR…	15c04-m05	1
Fagron	Hydrophilic cream, non-ionic…	15C04-M05	1
Fagron	Hydrophilic cream, non-ionic…	15C04-M06	1
Fagron	Base cream, hydrophobic DAC	15D03-T05-021168	1
Fagron	Transdermal base cream	15D28-T06-02194	1
Fagron	Transdermal base cream	15D28-T06-021940	1
Fagron	Base cream, hydrophobic DAC	15J13-T01-026887	6
Fagron	Base cream, hydrophobic DAC	15J13-T01-026888	1
Fagron	Base cream, hydrophobic DAC	15J13-T01-036887	1
Fagron	Base cream, hydrophobic DAC	15J13-T02-026891	1
Fagron	Transdermal base cream	1602049	1
Fagron	Anionic hydrophilic cream DAB	16046701	1
Fagron	Anionic hydrophilic cream DAB	16047301	1
Fagron	Transdermal base cream	1607076	6
Fagron	Transdermal base cream	1609813	10
Fagron	Anionic hydrophilic cream DAB	16103501	1
Fagron	Anionic hydrophilic cream DAB	16158803	2
Fagron	Anionic hydrophilic cream wi…	16191901	1
Fagron	Base cream, hydrophobic DAC	16293601	1
Fagron	Hydrophilic cream, non-ionic…	16A020518	1
Fagron	Hydrophilic cream, non-ionic…	16A120619	2
Fagron	Hydrophilic cream, non-ionic…	16A210416	1
Fagron	Base cream, hydrophobic DAC	16B10-T01-030202	1
Fagron	Base cream, hydrophobic DAC	16E03T02032868	1
Fagron	Base cream, hydrophobic DAC	16E03T02-032868	1
Fagron	Base cream, hydrophobic DAC	16E03-T02-032868	10
Fagron	Base cream, hydrophobic DAC	16E03-T02-032869	2
Fagron	Base cream, hydrophobic DAC	16F27-T22-034684	3
Fagron	Base cream, hydrophobic DAC	16Fo3-To2-032868	1
Fagron	Anionic hydrophilic cream SR…	17000162	1
Fagron	Anionic hydrophilic cream SR…	17001698	1
Fagron	Hydrophilic cream, non-ionic…	17009601	1
Fagron	Anionic hydrophilic cream DAB	17045401	1
Fagron	Anionic hydrophilic cream DAB	17045501	1
Fagron	Transdermal base cream	1709950/2	8
Fagron	Base cream, hydrophobic DAC	171126	2
Fagron	Anionic hydrophilic cream DAB	17142501	3
Fagron	Anionic hydrophilic cream DAB	17142701	1
Fagron	Base cream, hydrophobic DAC	171817	1
Fagron	Anionic hydrophilic cream DAB	17185401	1
Fagron	Hydrophilic cream, non-ionic…	17212601	1
Fagron	Hydrophilic cream, non-ionic…	17212603	1
Fagron	Hydrophilic cream, non-ionic…	17261002	1
Fagron	Anionic hydrophilic cream wi…	17262101	1
Fagron	Anionic hydrophilic cream DAB	17269801	1
Fagron	Anionic hydrophilic cream DAB	17270001	1
Fagron	Anionic hydrophilic cream DAB	17270401	3
Fagron	Anionic hydrophilic cream DAB	17299201	1
Fagron	Anionic hydrophilic cream wi…	17335401	1
Fagron	Anionic hydrophilic cream DAB	17335701	1
Fagron	Hydrophilic cream, non-ionic…	17A010720	1
Fagron	Base cream, hydrophobic DAC	17B03-T01-041253	1
Fagron	Base cream, hydrophobic DAC	17C06	1
Fagron	Base cream, hydrophobic DAC	17C06-108-042287	1
Fagron	Base cream, hydrophobic DAC	17C06-T08-04228	1
Fagron	Base cream, hydrophobic DAC	17c06-t08-042287	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream, hydrophobic DAC	17c06-T08-042287	1
Fagron	Base cream, hydrophobic DAC	17C06-T08-042287	16
Fagron	Base cream, hydrophobic DAC	17C06-T08-0422870019	1
Fagron	Base cream, hydrophobic DAC	17C06-T08-04287	1
Fagron	Base cream, hydrophobic DAC	17Co6-To8-042287	2
Fagron	Base cream, hydrophobic DAC	17Co6-To8-o42287	2
Fagron	Base cream, hydrophobic DAC	17D19-T03-043551	2
Fagron	Anionic hydrophilic cream DAB	18000250	2
Fagron	Hydrophilic cream, non-ionic...	18001329	1
Fagron	Anionic hydrophilic cream DAB	18001549	1
Fagron	Anionic hydrophilic cream DAB	18001559	1
Fagron	Base cream, hydrophobic DAC	18001997	2
Fagron	Base cream, hydrophobic DAC	18002000	1
Fagron	Hydrophilic cream, non-ionic...	18002057	1
Fagron	Anionic hydrophilic cream DAB	18002357	1
Fagron	Base cream, hydrophobic DAC	18005488	1
Fagron	Anionic hydrophilic cream DAB	18010401	1
Fagron	Transdermal base cream	1802648/2	1
Fagron	Transdermal base cream	1802650/2	24
Fagron	Transdermal base cream	18026502	1
Fagron	Transdermal base cream	1803958/2	6
Fagron	Transdermal base cream	1803958-1	1
Fagron	Anionic hydrophilic cream SR...	18041104	2
Fagron	Anionic hydrophilic cream wi...	18041401	1
Fagron	Base cream, hydrophobic DAC	18051001	1
Fagron	Transdermal base cream	1805581/1	12
Fagron	Transdermal base cream	1805581-1	1
Fagron	Transdermal base cream	180958/2	1
Fagron	Base cream, hydrophobic DAC	181008001	1
Fagron	Base cream, hydrophobic DAC	18100801	1
Fagron	Anionic hydrophilic cream DAB	18160201	1
Fagron	Anionic hydrophilic cream DAB	18160402	1
Fagron	Anionic hydrophilic cream wi...	18320901	1
Fagron	Base cream, hydrophobic DAC	18A09-T01-051635	1
Fagron	Base cream, hydrophobic DAC	18A09-T01-051636	1
Fagron	Hydrophilic cream, non-ionic...	18A220720	3
Fagron	Anionic hydrophilic cream DAB	18B06-B03-345419	2
Fagron	Base cream, hydrophobic DAC	18C23-T04	2
Fagron	Base cream, hydrophobic DAC	18C23-T04-054141	8
Fagron	Base cream, hydrophobic DAC	18C23-T04-054142	3
Fagron	Base cream, hydrophobic DAC	18C31-T09-058736	1
Fagron	Base cream, hydrophobic DAC	18D12-T01-054746	1
Fagron	Base cream, hydrophobic DAC	18G31-T09	2
Fagron	Base cream, hydrophobic DAC	18G31-T09_058735	1
Fagron	Base cream, hydrophobic DAC	18G31-T09-058735	12
Fagron	Base cream, hydrophobic DAC	18G31-T09-058736	4
Fagron	Base cream, hydrophobic DAC	18G31-T09-58735	1
Fagron	Base cream, hydrophobic DAC	18L18-T09-062847	5
Fagron	Base cream, hydrophobic DAC	18L18-T09-062848	4
Fagron	Base cream, hydrophobic DAC	18L18-T09-062847	1
Fagron	Base cream, hydrophobic DAC	19002001	1
Fagron	Anionic hydrophilic cream DAB	19003984	1
Fagron	Anionic hydrophilic cream wi...	1903701	1
Fagron	Base cream, hydrophobic DAC	19058401	1
Fagron	Transdermal base cream	1908978	4
Fagron	Hydrophilic cream, non-ionic...	19A220720	1
Fagron	Hydrophilic cream, non-ionic...	19A280313	1
Fagron	Base cream, hydrophobic DAC	19H21-T04-071052	2
Fagron	Base cream, hydrophobic DAC	19H21-T08-071088	6
Fagron	Base cream, hydrophobic DAC	19H21-T08-0710906	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Base cream, hydrophobic DAC	19H21-T08-071096	11
Fagron	Base cream, hydrophobic DAC	19H21-T08-071101	1
Fagron	Base cream, hydrophobic DAC	20000728	1
Fagron	Transdermal base cream	20001002	7
Fagron	Transdermal base cream	2000102	1
Fagron	Anionic hydrophilic cream DAB	20001209	2
Fagron	Transdermal base cream	20003334	10
Fagron	Transdermal base cream	20003335	6
Fagron	Base cream, hydrophobic DAC	20003527	1
Fagron	Transdermal base cream	2000730	1
Fagron	Transdermal base cream	20007370	2
Fagron	Transdermal base cream	20009439	1
Fagron	Transdermal base cream	2001002	1
Fagron	Base cream, hydrophobic DAC	20D01-T09-0783401	1
Fagron	Base cream, hydrophobic DAC	20D01-T09-078341	6
Fagron	Base cream, hydrophobic DAC	20D01-T09-078346	1
Fagron	Base cream, hydrophobic DAC	20D01-Tog-078341	1
Fagron	Base cream, hydrophobic DAC	20E12-T06-080145	1
Fagron	Base cream, hydrophobic DAC	20E12-T06-080146	2
Fagron	Base cream, hydrophobic DAC	20E12T0608045	1
Fagron	Base cream, hydrophobic DAC	20G14-T01-081556	4
Fagron	Hydrophilic cream, non-ionic...	2119I-03195	1
Fagron	Hydrophilic cream, non-ionic...	21A010920	2
Fagron	Hydrophilic cream, non-ionic...	21A050819	3
Fagron	Hydrophilic cream, non-ionic...	21A060618	1
Fagron	Base cream, hydrophobic DAC	21B12-T16-0863707	1
Fagron	Base cream, hydrophobic DAC	21B12-T16-086378	1
Fagron	Base cream, hydrophobic DAC	21B12-T16-86378	1
Fagron	Base cream, hydrophobic DAC	21H10-T01	1
Fagron	Base cream, hydrophobic DAC	21H10-T01-090850	2
Fagron	Hydrophilic cream, non-ionic...	22A050819	2
Fagron	Hydrophilic cream, non-ionic...	22A050917	1
Fagron	Wolff® base half-fat cream	236320	3
Fagron	Wolff® base half-fat cream	238560	2
Fagron	Hydrophilic cream, non-ionic...	23A010920	1
Fagron	Hydrophilic cream, non-ionic...	23A060819	6
Fagron	Transdermal base cream	247191-0003	3
Fagron	Hydrophilic cream, non-ionic...	24A060819	3
Fagron	Hydrophilic cream, non-ionic...	24A110712	1
Fagron	Hydrophilic cream, non-ionic...	24A110917	2
Fagron	Hydrophilic cream, non-ionic...	25A120917	1
Fagron	Anionic hydrophilic cream SR...	2617E-03327	1
Fagron	Base cream, hydrophobic DAC	26887	1
Fagron	Hydrophilic cream, non-ionic...	26A120917	2
Fagron	Hydrophilic cream, non-ionic...	27A021120	1
Fagron	Hydrophilic cream, non-ionic...	27A130917	2
Fagron	Hydrophilic cream, non-ionic...	28A02120	1
Fagron	Hydrophilic cream, non-ionic...	28A130917	1
Fagron	Hydrophilic cream, non-ionic...	28A281019	2
Fagron	Anionic hydrophilic cream SR...	291528	1
Fagron	Anionic hydrophilic cream SR...	291529	1
Fagron	Hydrophilic cream, non-ionic...	297372	1
Fagron	Hydrophilic cream, non-ionic...	29A140917	1
Fagron	Hydrophilic cream, non-ionic...	29A291019	3
Fagron	Hydrophilic cream, non-ionic...	2A010321	2
Fagron	Hydrophilic cream, non-ionic...	2A020119	3
Fagron	Anionic hydrophilic cream SR...	2A030118	1
Fagron	Hydrophilic cream, non-ionic...	2A140114	2
Fagron	Anionic hydrophilic cream DAB	300353	1
Fagron	Anionic hydrophilic cream DAB	300358	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Hydrophilic cream, non-ionic…	300765	1
Fagron	Hydrophilic cream, non-ionic…	3018E-03195	1
Fagron	Anionic hydrophilic cream SR…	302382	1
Fagron	Anionic hydrophilic cream SR…	305069	1
Fagron	Anionic hydrophilic cream DAB	307033	1
Fagron	Anionic hydrophilic cream SR…	307330	1
Fagron	Anionic hydrophilic cream SR…	307334	1
Fagron	Base cream, hydrophobic DAC	307770	1
Fagron	Anionic hydrophilic cream SR…	308220	1
Fagron	Hydrophilic cream, non-ionic…	30A041120	2
Fagron	Hydrophilic cream, non-ionic…	30A291019	1
Fagron	Hydrophilic cream, non-ionic…	32A051120	1
Fagron	Anionic hydrophilic cream SR…	32A150915	1
Fagron	Hydrophilic cream, non-ionic…	33A180912	2
Fagron	Hydrophilic cream, non-ionic…	33A240915	1
Fagron	Hydrophilic cream, non-ionic…	34A290915	1
Fagron	Hydrophilic cream, non-ionic…	3713U-03195	1
Fagron	Hydrophilic cream, non-ionic…	37A121216	1
Fagron	Hydrophilic cream, non-ionic…	38A121216	2
Fagron	Hydrophilic cream, non-ionic…	39131216	1
Fagron	Hydrophilic cream, non-ionic…	3A030119	3
Fagron	Hydrophilic cream, non-ionic…	3A03119	1
Fagron	Hydrophilic cream, non-ionic…	3A100320	2
Fagron	Hydrophilic cream, non-ionic…	3A170117	1
Fagron	Hydrophilic cream, non-ionic…	40a081015	1
Fagron	Hydrophilic cream, non-ionic…	40A131216	1
Fagron	Hydrophilic cream, non-ionic…	412062-3-P	1
Fagron	Hydrophilic cream, non-ionic…	41A141216	3
Fagron	Hydrophilic cream, non-ionic…	42A141216	1
Fagron	Hydrophilic cream, non-ionic…	4315A-03195	1
Fagron	Transdermal base cream	4315I-07039	1
Fagron	Wolff® base half-fat cream	438160	1
Fagron	Hydrophilic cream, non-ionic…	43A191216	1
Fagron	Hydrophilic cream, non-ionic…	44A191216	1
Fagron	Hydrophilic cream, non-ionic…	45A201216	2
Fagron	Hydrophilic cream, non-ionic…	46A061113	1
Fagron	Hydrophilic cream, non-ionic…	48A071113	1
Fagron	Hydrophilic cream, non-ionic…	4A100320	2
Fagron	Hydrophilic cream, non-ionic…	4A170117	1
Fagron	Hydrophilic cream, non-ionic…	5016I-03195	1
Fagron	Base cream, hydrophobic DAC	513A-03497	1
Fagron	Hydrophilic cream, non-ionic…	51A121113	2
Fagron	Hydrophilic cream, non-ionic…	5214I-03195	1
Fagron	Hydrophilic cream, non-ionic…	55A181213	1
Fagron	Hydrophilic cream, non-ionic…	5A110320	2
Fagron	Hydrophilic cream, non-ionic…	5A230113	1
Fagron	Hydrophilic cream, non-ionic…	6061701	1
Fagron	Hydrophilic cream, non-ionic…	6A040319	4
Fagron	Anionic hydrophilic cream SR…	6A280217	1
Fagron	Hydrophilic cream, non-ionic…	6A310321	2
Fagron	Hydrophilic cream, non-ionic…	6A40319	1
Fagron	Wolff® base half-fat cream	703031	1
Fagron	Wolff® base half-fat cream	711250	1
Fagron	Hydrophilic cream, non-ionic…	7A040319	1
Fagron	Hydrophilic cream, non-ionic…	8A050319	1
Fagron	Hydrophilic cream, non-ionic…	8A05319	1
Fagron	Wolff® base half-fat cream	901920	4
Fagron	Anionic hydrophilic cream SR…	9A130416	1
Fagron	Base cream, hydrophobic DAC	T01-0815505	1
Fagron	Base cream, hydrophobic DAC	T06-0801406	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Transdermal base cream	T06-0919303	1
Fagron	Base cream, hydrophobic DAC	T08-0710906	2
Fagron	Base cream, hydrophobic DAC	T09-0783401	1
Fagron	Base cream, hydrophobic DAC	T16-0863707	2
Faoron/anzag	Base cream, hydrophobic DAC	14A06-t08-009037	1
Faoron/Anzag	Base cream, hydrophobic DAC	14A06-T08-009037	4
Fargon/ Phönix	Anionic hydrophilic cream DAB	16259801	1
Fargon/Gehe	Anionic hydrophilic cream DAB	17270102	1
Fargon/Gehe	Anionic hydrophilic cream SR...	295171	1
Fargon/Phoenix	Hydrophilic cream, non-ionic...	13D18-M06	1
Fargon	Anionic hydrophilic cream DAB	15319201	1
Faron/Sanacorp	Hydrophilic cream, non-ionic...	7A040319	1
FEJ	Base cream, hydrophobic DAC	152209	1
Fiebi 23.11.12 ek:4,70	Anionic hydrophilic cream SR...	274504	2
Fiebig infectopharm	Base cream, hydrophobic DAC		1
Fiebig/ Caesar & Loretz...	Anionic hydrophilic cream DAB	19072601	1
Fiebig/ Wolff	Wolff® base half-fat cream	701451	1
Fiebig/DR.Wolf	Wolff® base half-fat cream	610991	3
Fiebig/DR.Wolf	Wolff® base half-fat cream	707500	1
Fiebig/DR.Wolf	Wolff® base half-fat cream	711240	4
Fiebig/Pharmachem	Base cream, hydrophobic DAC	181198	1
Fiebig	Anionic hydrophilic cream DAB	15200201	1
Fiebig	Anionic hydrophilic cream DAB	15400701	1
Fiebig	Base cream, hydrophobic DAC	160136	2
Fiebig	Base cream, hydrophobic DAC	160825	1
Fiebig	Anionic hydrophilic cream SR...	17001700	1
Fiebig	Anionic hydrophilic cream DAB	17045401	1
Fiebig	Anionic hydrophilic cream wi...	17102301	1
Fiebig	Base cream, hydrophobic DAC	171815	1
Fiebig	Anionic hydrophilic cream DAB	17201801	2
Fiebig	Base cream, hydrophobic DAC	172194	2
Fiebig	Anionic hydrophilic cream DAB	17248401	2
Fiebig	Anionic hydrophilic cream DAB	17298901	1
Fiebig	Anionic hydrophilic cream DAB	1801101	1
Fiebig	Base cream, hydrophobic DAC	18051101	2
Fiebig	Anionic hydrophilic cream DAB	18066701	2
Fiebig	Anionic hydrophilic cream DAB	18116802	1
Fiebig	Anionic hydrophilic cream DAB	18116901	1
Fiebig	Base cream, hydrophobic DAC	181198	1
Fiebig	Anionic hydrophilic cream DAB	18140001	1
Fiebig	Anionic hydrophilic cream DAB	18169001	1
Fiebig	Anionic hydrophilic cream DAB	18169501	1
Fiebig	Base cream, hydrophobic DAC	18173902	1
Fiebig	Anionic hydrophilic cream DAB	18243402	1
Fiebig	Hydrophilic cream, non-ionic...	18259501	2
Fiebig	Anionic hydrophilic cream DAB	18298601	1
Fiebig	Anionic hydrophilic cream DAB	18298801	1
Fiebig	Hydrophilic cream, non-ionic...	19002041	1
Fiebig	Anionic hydrophilic cream DAB	19072301	1
Fiebig	Hydrophilic cream, non-ionic...	19093001	1
Fiebig	Anionic hydrophilic cream DAB	19272301	1
Fiebig	Base cream, hydrophobic DAC	20001228	1
Fiebig	Anionic hydrophilic cream DAB	20001452001	1
Fiebig	Anionic hydrophilic cream SR...	21001807	2
Fiebig	Anionic hydrophilic cream DAB	269445	1
Fiebig	Anionic hydrophilic cream SR...	295167	1
Fiebig	Anionic hydrophilic cream SR...	300563	1
Fiebig	Anionic hydrophilic cream SR...	308218	1
Fiebig	Base cream, hydrophobic DAC	310828	3
Fiebig	Wolff® base half-fat cream	605551	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Wolff® base half-fat cream	801140	1
Fiebig	Wolff® base half-fat cream	807640	2
Fiebig	Wolff® base half-fat cream	810201	1
Fiebig	Wolff® base half-fat cream	901140	1
fiebig	Wolff® base half-fat cream	909810	1
Fiebig	Wolff® base half-fat cream	909810	1
Fiebig	Wolff® base half-fat cream	9560	1
Finteler Apotheke	Anionic hydrophilic cream DAB	16322402	1
Finteler Apotheke	Anionic hydrophilic cream DAB	17088901	1
Fischar/ Krieger	Anionic hydrophilic cream DAB	17299201	1
Fischer/Gehe	Anionic hydrophilic cream DAB	15315601	1
Fishar	Anionic hydrophilic cream DAB	16057201	1
Frago/Noweda	Hydrophilic cream, non-ionic...	46A201216	1
Fragron	Hydrophilic cream, non-ionic...	9A240418	1
Galderma/Gehe	Anionic hydrophilic cream SR...	18006282	1
Gehe Chiesi	Wolff® base half-fat cream	506360-20160615Ma6	1
Gehe 02.05.19	Anionic hydrophilic cream DAB	18298101	1
Gehe 08.05.19	Anionic hydrophilic cream DAB	18298001	1
Gehe 01.08.14	Anionic hydrophilic cream DAB	14062501	1
Gehe 02.09.14	Hydrophilic cream, non-ionic...	287709	1
Gehe 03.05.19	Hydrophilic cream, non-ionic...	18002064	1
Gehe 05.04.19	Anionic hydrophilic cream SR...	18006287	1
Gehe 07.12.18	Anionic hydrophilic cream DAB	18169001	1
GEHE 08.12.2014	Base cream, hydrophobic DAC	14145301	1
Gehe 10.03.15	Base cream, hydrophobic DAC	143094	2
Gehe 10.03.15	Anionic hydrophilic cream SR...	42A171214	1
GEHE 22.03.2014	Anionic hydrophilic cream DAB	14062301	1
Gehe am 21.02.14	Anionic hydrophilic cream DAB	13364401	1
Gehe amax	Hydrophilic cream, non-ionic...	18002059	2
Gehe amax	Hydrophilic cream, non-ionic...	18002060	1
Gehe amax	Hydrophilic cream, non-ionic...	18004209	1
Gehe amax	Anionic hydrophilic cream wi...	18041401	1
Gehe amax	Anionic hydrophilic cream wi...	18109801	1
Gehe amax	Hydrophilic cream, non-ionic...	19000220	1
Gehe amax	Hydrophilic cream, non-ionic...	19000221	1
Gehe amax	Hydrophilic cream, non-ionic...	19003821	1
Gehe amax	Hydrophilic cream, non-ionic...	19005187	1
Gehe amax	Hydrophilic cream, non-ionic...	20001908	1
Gehe, 12.11.2019	Hydrophilic cream, non-ionic...	12B130819	1
Gehe, 9,99EUR, 29.08.2016	Anionic hydrophilic cream SR...	299255	1
gehe,08.03.19	Anionic hydrophilic cream wi...	18297401	1
Gehe,27.0415	Base cream, hydrophobic DAC	15001003	2
Gehe,Wolff Pharma	Wolff® base half-fat cream	506360-20160615Ma8	1
Gehe/ Pharmachem GmbH	Base cream, hydrophobic DAC	190206	1
Gehe/ 28.12.12 Bambastus	Anionic hydrophilic cream DAB	274594	1
Gehe/ Wolff	Wolff® base half-fat cream	510400	1
GEHE/AMH/22.05.2012	Anionic hydrophilic cream SR...	5A200212	1
Gehe/Bombasus	Anionic hydrophilic cream DAB	18002364	1
Gehe/Dr Wolff	Wolff® base half-fat cream	3542	1
Gehe/Dr.Wolff	Wolff® base half-fat cream	704050	1
Gehe/Dr.Wolff	Wolff® base half-fat cream	801140	1
Gehe/Leyh	Hydrophilic cream, non-ionic...	150341	1
Gehe/Pharmachem GmbH	Base cream, hydrophobic DAC	20003531	4
Gehe/Pharmachem Pößneck	Base cream, hydrophobic DAC	190638	1
Gehe/Pharmachem Pößneck	Base cream, hydrophobic DAC	1925661	1
Gehe/Pharmachem	Base cream, hydrophobic DAC	160137	1
Gehe/Pharmachem	Base cream, hydrophobic DAC	172194	5
Gehe/Pharmachem	Base cream, hydrophobic DAC	180755	1
Gehe/Pharmachem	Base cream, hydrophobic DAC	19000732	1
Gehe/Pharmachem	Base cream, hydrophobic DAC	191489	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe/Pharmachem	Base cream, hydrophobic DAC	1925681	1
Gehe/Pharmachem	Base cream, hydrophobic DAC	20001228	1
Gehe/Pharmachem	Anionic hydrophilic cream SR...	240118	1
Gehe/Pharmachen GmbH	Base cream, hydrophobic DAC	191489	1
Gehe/Wolff	Wolff® base half-fat cream	152840	2
Gehe	Anionic hydrophilic cream DAB	11219901	1
Gehe	Anionic hydrophilic cream DAB	11311202	1
Gehe	Hydrophilic cream, non-ionic...	114761	1
Gehe	Hydrophilic cream, non-ionic...	120211	1
Gehe	Anionic hydrophilic cream DAB	12026001	1
Gehe	Hydrophilic cream, non-ionic...	121431	1
Gehe	Hydrophilic cream, non-ionic...	122131	1
Gehe	Anionic hydrophilic cream DAB	12265001	1
GEHE	Anionic hydrophilic cream wi...	12301302	1
Gehe	Base cream, hydrophobic DAC	12308102	1
Gehe	Anionic hydrophilic cream DAB	12313401	1
GEHE	Anionic hydrophilic cream DAB	12314101	1
Gehe	Hydrophilic cream, non-ionic...	125011	1
Gehe	Anionic hydrophilic cream SR...	12A070519	1
Gehe	Base cream, hydrophobic DAC	13019304	1
Gehe	Anionic hydrophilic cream DAB	13038201	1
GEHE	Anionic hydrophilic cream wi...	13072303	1
Gehe	Anionic hydrophilic cream wi...	1307302	1
Gehe	Hydrophilic cream, non-ionic...	131451	1
Gehe	Anionic hydrophilic cream DAB	13154201	2
Gehe	Anionic hydrophilic cream DAB	13165701	1
Gehe	Base cream, hydrophobic DAC	13175901	1
Gehe	Base cream, hydrophobic DAC	13175902	1
Gehe	Hydrophilic cream, non-ionic...	132331	1
Gehe	Anionic hydrophilic cream wi...	13244401	1
Gehe	Anionic hydrophilic cream DAB	13280201	1
Gehe	Hydrophilic cream, non-ionic...	133121	1
Gehe	Base cream, hydrophobic DAC	13386402	1
Gehe	Anionic hydrophilic cream SR...	140161	1
Gehe	Anionic hydrophilic cream DAB	14042201	1
Gehe	Hydrophilic cream, non-ionic...	140570	1
Gehe	Anionic hydrophilic cream DAB	14062501	1
Gehe	Wolff® base half-fat cream	141811	2
Gehe	Anionic hydrophilic cream DAB	14232901	1
Gehe	Anionic hydrophilic cream DAB	14264301	1
Gehe	Anionic hydrophilic cream DAB	14294301	1
Gehe	Anionic hydrophilic cream wi...	14334501	1
Gehe	Anionic hydrophilic cream DAB	14341901	1
Gehe	Anionic hydrophilic cream DAB	14342201	1
Gehe	Wolff® base half-fat cream	143600	1
Gehe	Wolff® base half-fat cream	143650	1
Gehe	Wolff® base half-fat cream	147400	1
Gehe	Base cream, hydrophobic DAC	15001002	1
Gehe	Anionic hydrophilic cream SR...	15014804	1
Gehe	Anionic hydrophilic cream DAB	15027301	1
Gehe	Anionic hydrophilic cream DAB	15034601	1
Gehe	Anionic hydrophilic cream wi...	15048301	1
Gehe	Base cream, hydrophobic DAC	151258	3
Gehe	Anionic hydrophilic cream wi...	15133001	1
Gehe	Anionic hydrophilic cream wi...	15273101	1
Gehe	Anionic hydrophilic cream wi...	15273201	1
Gehe	Anionic hydrophilic cream wi...	15405301	1
Gehe	Anionic hydrophilic cream DAB	15428201	1
Gehe	Anionic hydrophilic cream DAB	15431702	1
Gehe	Anionic hydrophilic cream DAB	15431801	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Anionic hydrophilic cream wi…	16067301	1
Gehe	Anionic hydrophilic cream wi…	16067401	1
Gehe	Anionic hydrophilic cream DAB	16150702	1
Gehe	Anionic hydrophilic cream DAB	16158601	1
Gehe	Anionic hydrophilic cream DAB	16179601	1
Gehe	Anionic hydrophilic cream wi…	16191501	1
Gehe	Anionic hydrophilic cream wi…	16191801	1
Gehe	Anionic hydrophilic cream DAB	16249902	1
Gehe	Anionic hydrophilic cream DAB	16250001	1
Gehe	Anionic hydrophilic cream DAB	16250201	1
Gehe	Anionic hydrophilic cream wi…	16290401	1
Gehe	Anionic hydrophilic cream SR…	17000163	1
Gehe	Hydrophilic cream, non-ionic…	17000737	1
GEHE	Hydrophilic cream, non-ionic…	17000738	1
Gehe	Hydrophilic cream, non-ionic…	17000745	1
Gehe	Hydrophilic cream, non-ionic…	17000746	1
GEHE	Hydrophilic cream, non-ionic…	17000749	1
Gehe	Anionic hydrophilic cream wi…	17030001	1
Gehe	Anionic hydrophilic cream wi…	17030101	1
GEHE	Base cream, hydrophobic DAC	17073202	1
Gehe	Anionic hydrophilic cream DAB	17088901	1
Gehe	Anionic hydrophilic cream wi…	17102101	1
Gehe	Anionic hydrophilic cream wi…	17102201	1
Gehe	Anionic hydrophilic cream DAB	17142301	1
Gehe	Anionic hydrophilic cream DAB	17143301	2
Gehe	Anionic hydrophilic cream DAB	17143501	1
Gehe	Anionic hydrophilic cream DAB	17143802	1
Gehe	Base cream, hydrophobic DAC	17150401	1
GEHE	Anionic hydrophilic cream wi…	17156501	1
Gehe	Anionic hydrophilic cream wi…	17156602	1
Gehe	Anionic hydrophilic cream DAB	17201601	1
Gehe	Anionic hydrophilic cream DAB	17201901	1
Gehe	Anionic hydrophilic cream DAB	17202001	1
Gehe	Base cream, hydrophobic DAC	172194	1
gehe	Anionic hydrophilic cream DAB	17248401	1
Gehe	Anionic hydrophilic cream DAB	17248601	1
Gehe	Base cream, hydrophobic DAC	17255202	3
GEHE	Anionic hydrophilic cream wi…	17261901	2
Gehe	Anionic hydrophilic cream wi…	17262001	1
Gehe	Anionic hydrophilic cream wi…	17262201	1
GEHE	Anionic hydrophilic cream DAB	17270001	1
Gehe	Anionic hydrophilic cream DAB	17270401	2
Gehe	Anionic hydrophilic cream DAB	17299501	1
Gehe	Anionic hydrophilic cream DAB	17299601	1
Gehe	Anionic hydrophilic cream wi…	17335501	1
gehe	Anionic hydrophilic cream wi…	17335601	1
Gehe	Anionic hydrophilic cream wi…	17335601	1
Gehe	Anionic hydrophilic cream wi…	17335701	1
Gehe	Base cream, hydrophobic DAC	17C06-T08-042287	1
Gehe	Anionic hydrophilic cream DAB	18000250	1
Gehe	Anionic hydrophilic cream DAB	18000255	1
Gehe	Hydrophilic cream, non-ionic…	18001333	1
Gehe	Anionic hydrophilic cream SR…	18001474	1
Gehe	Anionic hydrophilic cream DAB	18001555	1
Gehe	Anionic hydrophilic cream SR…	18001681	1
gehe	Hydrophilic cream, non-ionic…	18002063	2
Gehe	Anionic hydrophilic cream SR…	18002224	1
Gehe	Anionic hydrophilic cream DAB	18003575	3
Gehe	Anionic hydrophilic cream DAB	18003576	4
Gehe	Anionic hydrophilic cream DAB	18003586	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Hydrophilic cream, non-ionic…	18004208	1
Gehe	Hydrophilic cream, non-ionic…	18004209	1
Gehe	Anionic hydrophilic cream DAB	18004835	1
Gehe	Anionic hydrophilic cream DAB	18004837	2
Gehe	Anionic hydrophilic cream DAB	18006019	1
Gehe	Anionic hydrophilic cream SR…	18006629	1
Gehe	Anionic hydrophilic cream SR…	18006630	1
Gehe	Anionic hydrophilic cream DAB	18028021	1
Gehe	Anionic hydrophilic cream SR…	18041104	3
GEHE	Anionic hydrophilic cream SR…	18041104	1
Gehe	Anionic hydrophilic cream wi…	18041601	1
Gehe	Base cream, hydrophobic DAC	18051101	1
GEHE	Base cream, hydrophobic DAC	18051101	2
Gehe	Base cream, hydrophobic DAC	18051103	2
GEHE	Base cream, hydrophobic DAC	18051103	1
GEHE	Base cream, hydrophobic DAC	18051301	1
GEHE	Base cream, hydrophobic DAC	18051401	1
Gehe	Base cream, hydrophobic DAC	180515	1
GEHE	Anionic hydrophilic cream DAB	18066901	1
gehe	Anionic hydrophilic cream SR…	18067801	1
Gehe	Anionic hydrophilic cream SR…	18067801	1
GEHE	Anionic hydrophilic cream SR…	18067803	1
Gehe	Base cream, hydrophobic DAC	180755	1
Gehe	Base cream, hydrophobic DAC	180756	4
Gehe	Base cream, hydrophobic DAC	18100801	1
GEHE	Anionic hydrophilic cream wi…	18109601	1
Gehe	Anionic hydrophilic cream wi…	18109901	2
Gehe	Anionic hydrophilic cream DAB	18117001	1
Gehe	Anionic hydrophilic cream DAB	18117201	1
Gehe	Base cream, hydrophobic DAC	181196	1
GEHE	Base cream, hydrophobic DAC	18119901	2
Gehe	Anionic hydrophilic cream DAB	18139501	1
GEHE	Anionic hydrophilic cream SR…	18147502	3
Gehe	Anionic hydrophilic cream DAB	18160101	1
Gehe	Anionic hydrophilic cream DAB	18168701	1
Gehe	Anionic hydrophilic cream DAB	18169501	1
GEHE	Base cream, hydrophobic DAC	18174101	1
Gehe	Anionic hydrophilic cream SR…	18176103	1
Gehe	Anionic hydrophilic cream wi…	18180902	1
Gehe	Anionic hydrophilic cream SR…	18218102	1
Gehe	Base cream, hydrophobic DAC	182221	3
Gehe	Anionic hydrophilic cream DAB	18243201	1
Gehe	Anionic hydrophilic cream DAB	18243301	1
Gehe	Anionic hydrophilic cream DAB	18243501	2
Gehe	Base cream, hydrophobic DAC	18286701	1
GEHE	Base cream, hydrophobic DAC	18286802	1
Gehe	Anionic hydrophilic cream DAB	18298701	1
Gehe	Anionic hydrophilic cream DAB	182990001	1
Gehe	Anionic hydrophilic cream DAB	18299001	1
GEHE	Anionic hydrophilic cream SR…	18302501	1
GEHE	Anionic hydrophilic cream wi…	18320801	1
Gehe	Hydrophilic cream, non-ionic…	18A020719	1
Gehe	Hydrophilic cream, non-ionic…	18B060917	1
Gehe	Hydrophilic cream, non-ionic…	19000218	3
Gehe	Base cream, hydrophobic DAC	19000414001	1
GEHE	Anionic hydrophilic cream DAB	19000619	1
Gehe	Anionic hydrophilic cream SR…	19000650	1
Gehe	Anionic hydrophilic cream SR…	19000651	1
Gehe	Anionic hydrophilic cream DAB	19002198	1
GEHE	Anionic hydrophilic cream DAB	19002198	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
gehe	Anionic hydrophilic cream DAB	19002206	1
Gehe	Anionic hydrophilic cream SR...	19002550	1
Gehe	Anionic hydrophilic cream DAB	19002703	1
Gehe	Anionic hydrophilic cream DAB	19003001	1
Gehe	Anionic hydrophilic cream DAB	19003571	1
Gehe	Anionic hydrophilic cream SR...	19003573	1
Gehe	Hydrophilic cream, non-ionic...	19003820	2
Gehe	Anionic hydrophilic cream DAB	19003967	2
Gehe	Anionic hydrophilic cream DAB	19003980	1
Gehe	Anionic hydrophilic cream DAB	19003982	1
Gehe	Anionic hydrophilic cream SR...	19005192	1
Gehe	Base cream, hydrophobic DAC	19005603	2
Gehe	Base cream, hydrophobic DAC	190206	1
GEHE	Anionic hydrophilic cream wi...	19027401	1
Gehe	Anionic hydrophilic cream wi...	19027502	2
Gehe	Anionic hydrophilic cream wi...	19027601	1
Gehe	Base cream, hydrophobic DAC	190638	1
Gehe	Base cream, hydrophobic DAC	190640	1
Gehe	Anionic hydrophilic cream DAB	19072501	1
Gehe	Anionic hydrophilic cream wi...	1909301	1
Gehe	Anionic hydrophilic cream wi...	19093901	1
GEHE	Base cream, hydrophobic DAC	19115901	2
Gehe	Base cream, hydrophobic DAC	191487	1
Gehe	Base cream, hydrophobic DAC	191489	1
Gehe	Anionic hydrophilic cream DAB	19162401	1
Gehe	Anionic hydrophilic cream wi...	19192201	1
Gehe	Anionic hydrophilic cream DAB	19206801	1
Gehe	Anionic hydrophilic cream SR...	19240002	1
Gehe	Base cream, hydrophobic DAC	1925681	1
Gehe	Anionic hydrophilic cream DAB	19272301	1
Gehe	Anionic hydrophilic cream DAB	19272505	1
Gehe	Anionic hydrophilic cream DAB	200001009	1
Gehe	Base cream, hydrophobic DAC	20000153	1
Gehe	Anionic hydrophilic cream wi...	20000192001	1
Gehe	Anionic hydrophilic cream DAB	20000720	1
Gehe	Hydrophilic cream, non-ionic...	20001013	1
Gehe	Anionic hydrophilic cream DAB	20001211	1
Gehe	Anionic hydrophilic cream DAB	20001217	1
Gehe	Base cream, hydrophobic DAC	20001227	1
Gehe	Base cream, hydrophobic DAC	20001228	1
Gehe	Anionic hydrophilic cream SR...	20001778	1
Gehe	Anionic hydrophilic cream SR...	20002221	1
Gehe	Anionic hydrophilic cream SR...	20002226	1
Gehe	Anionic hydrophilic cream DAB	20002541	1
Gehe	Anionic hydrophilic cream DAB	20002896	1
Gehe	Anionic hydrophilic cream DAB	20003994	1
Gehe	Anionic hydrophilic cream DAB	20003996	1
Gehe	Hydrophilic cream, non-ionic...	2001906	1
Gehe	Wolff® base half-fat cream	201600	1
Gehe	Base cream, hydrophobic DAC	21000160	1
Gehe	Anionic hydrophilic cream SR...	21001800	1
Gehe	Anionic hydrophilic cream DAB	21001805	1
Gehe	Base cream, hydrophobic DAC	21001947002	1
Gehe	Anionic hydrophilic cream DAB	21002633001	1
Gehe	Anionic hydrophilic cream DAB	21002636001	1
Gehe	Anionic hydrophilic cream DAB	21003302	1
Gehe	Hydrophilic cream, non-ionic...	21003305	1
Gehe	Anionic hydrophilic cream DAB	21004455	1
Gehe	Anionic hydrophilic cream SR...	22000867001	1
Gehe	Anionic hydrophilic cream wi...	22001180001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Anionic hydrophilic cream DAB	22001390001	1
Gehe	Anionic hydrophilic cream DAB	262935	1
Gehe	Anionic hydrophilic cream SR...	267647	1
Gehe	Anionic hydrophilic cream SR...	269235	1
Gehe	Anionic hydrophilic cream DAB	270949	1
Gehe	Hydrophilic cream, non-ionic...	271521	1
Gehe	Anionic hydrophilic cream SR...	271701	1
Gehe	Anionic hydrophilic cream SR...	271838	1
Gehe	Anionic hydrophilic cream SR...	272515	3
Gehe	Anionic hydrophilic cream SR...	273694	1
Gehe	Hydrophilic cream, non-ionic...	274215	1
Gehe	Hydrophilic cream, non-ionic...	274216	1
Gehe	Anionic hydrophilic cream DAB	274765	1
Gehe	Hydrophilic cream, non-ionic...	276599	1
Gehe	Anionic hydrophilic cream SR...	277565	1
Gehe	Anionic hydrophilic cream DAB	279057	1
Gehe	Anionic hydrophilic cream DAB	280418	1
Gehe	Anionic hydrophilic cream SR...	280574	1
Gehe	Anionic hydrophilic cream SR...	280575	1
Gehe	Hydrophilic cream, non-ionic...	280988	1
Gehe	Hydrophilic cream, non-ionic...	280989	1
Gehe	Hydrophilic cream, non-ionic...	280992	1
Gehe	Anionic hydrophilic cream DAB	282001	1
Gehe	Anionic hydrophilic cream DAB	282111	2
Gehe	Hydrophilic cream, non-ionic...	282214	1
Gehe	Hydrophilic cream, non-ionic...	283637	1
Gehe	Anionic hydrophilic cream SR...	288231	1
Gehe	Anionic hydrophilic cream DAB	288653	1
Gehe	Hydrophilic cream, non-ionic...	288882	1
Gehe	Base cream, hydrophobic DAC	289721	1
Gehe	Anionic hydrophilic cream DAB	290080	1
Gehe	Anionic hydrophilic cream SR...	290528	1
Gehe	Anionic hydrophilic cream DAB	291658	2
Gehe	Anionic hydrophilic cream DAB	291732	1
Gehe	Anionic hydrophilic cream SR...	292978	1
Gehe	Anionic hydrophilic cream SR...	293132	1
Gehe	Anionic hydrophilic cream DAB	294650	1
Gehe	Hydrophilic cream, non-ionic...	295653	1
Gehe	Anionic hydrophilic cream DAB	296786	1
Gehe	Anionic hydrophilic cream DAB	296787	6
Gehe	Anionic hydrophilic cream DAB	297679	1
Gehe	Anionic hydrophlic cream wit...	2B100214	1
Gehe	Anionic hydrophilic cream DAB	300363	1
Gehe	Anionic hydrophilic cream DAB	300365	1
Gehe	Anionic hydrophilic cream DAB	301271	2
Gehe	Anionic hydrophilic cream DAB	302470	1
GEHE	Hydrophilic cream, non-ionic...	302685	1
GEHE	Base cream, hydrophobic DAC	303373	1
Gehe	Anionic hydrophilic cream SR...	303725	1
Gehe	Anionic hydrophilic cream SR...	303736	1
Gehe	Anionic hydrophilic cream DAB	304100	1
GEHE	Hydrophilic cream, non-ionic...	306124	1
Gehe	Hydrophilic cream, non-ionic...	306131	1
Gehe	Anionic hydrophilic cream SR...	306440	1
Gehe	Anionic hydrophilic cream DAB	307040	1
Gehe	Anionic hydrophilic cream SR...	307324	1
Gehe	Anionic hydrophilic cream SR...	307334	3
GEHE	Hydrophilic cream, non-ionic...	307521	1
Gehe	Hydrophilic cream, non-ionic...	307531	1
Gehe	Anionic hydrophilic cream DAB	308404	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Base cream, hydrophobic DAC	308508	1
Gehe	Anionic hydrophilic cream DAB	310267	1
Gehe	Anionic hydrophilic cream DAB	310273	1
GEHE	Base cream, hydrophobic DAC	310824	1
Gehe	Anionic hydrophilic cream DAB	311129	1
GEHE	Anionic hydrophilic cream DAB	311134	1
Gehe	Wolff® base half-fat cream	331551	2
Gehe	Wolff® base half-fat cream	3542	1
Gehe	Anionic hydrophilic cream SR...	3A120116	2
Gehe	Wolff® base half-fat cream	431050	1
Gehe	Hydrophilic cream, non-ionic...	5B250213	1
Gehe	Wolff® base half-fat cream	601880	1
Gehe	Wolff® base half-fat cream	609952	1
Gehe	Wolff® base half-fat cream	702500	1
Gehe	Wolff® base half-fat cream	704220	1
Gehe	Wolff® base half-fat cream	707370	1
GEHE	Wolff® base half-fat cream	801140	2
Gehe	Wolff® base half-fat cream	801800	1
Gehe	Wolff® base half-fat cream	805720	2
gehe	Wolff® base half-fat cream	807640	3
GEHE	Wolff® base half-fat cream	807640	4
Gehe	Wolff® base half-fat cream	810800	5
GEHE	Wolff® base half-fat cream	901920	2
Gehe	Wolff® base half-fat cream	910460	1
Gehe	Anionic hydrophilic cream SR...	9A160320	1
Gehe-Pharmachem	Base cream, hydrophobic DAC	160136	1
Gehe-Pharmachem	Base cream, hydrophobic DAC	162168	1
Geibo	Wolff® base half-fat cream	801140	1
Geilenkirchen	Anionic hydrophilic cream wi...	15048501	2
Geilenkirchen	Anionic hydrophilic cream wi...	20000190001	1
GEpepharm GmbH	Anionic hydrophilic cream DAB	17045101	1
gepepharm/ Gehe	Anionic hydrophilic cream DAB	1134496	1
gepepharm/Gehe	Anionic hydrophilic cream DAB	16250001	1
GUMO	Hydrophilic cream, non-ionic...	11B090621	2
GUMO	Hydrophilic cream, non-ionic...	17B121021	1
GUMO	Hydrophilic cream, non-ionic...	19006525	1
GUMO	Hydrophilic cream, non-ionic...	20001015	2
GUMO	Anionic hydrophilic cream DAB	21001493002	1
GUMO	Anionic hydrophilic cream DAB	21001815001	2
Gutenberg-Apotheke	Anionic hydrophilic cream SR...	285890	1
Hageda	Base cream, hydrophobic DAC	20001593002	1
harn	Wolff® base half-fat cream	704050	1
harn	Wolff® base half-fat cream	707500	2
Hedinger / Noweda	Anionic hydrophilic cream DAB	16264701	3
Hedinger/ Sanacorp	Anionic hydrophilic cream DAB	17299201	1
Hedinger/Fiebig	Hydrophilic cream, non-ionic...		1
Hedinger/Noweda	Wolff® base half-fat cream	430880	2
Hedinger/Sanacorp	Wolff® base half-fat cream	705760	1
Hedinger	Anionic hydrophilic cream DAB	12264501	1
Hedinger	Hydrophilic cream, non-ionic...	17000742	1
Hedinger	Anionic hydrophilic cream wi...	19093602(2x)	1
Hedinger	Hydrophilic cream, non-ionic...	286326	1
Henry Lamotte / Noweda	Anionic hydrophilic cream SR...	303735	2
Henry Lamotte Oils GmbH...	Base cream, hydrophobic DAC	171126	1
Henry Lamotte Oils GmbH...	Anionic hydrophilic cream SR...	18041104	1
Henry Lamotte Oils GmbH	Anionic hydrophilic cream DAB	14341901	1
HENRY LAMOTTE OILS GmbH	Base cream, hydrophobic DAC	18051101	1
Henry Lamotte/Noweda	Anionic hydrophilic cream DAB	17299501	1
Henry Lamotte	Anionic hydrophilic cream DAB	16150702	1
Henry Lamotte	Anionic hydrophilic cream DAB	16259701	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte	Hydrophilic cream, non-ionic…	19000217	1
Henry Lamotte	Hydrophilic cream, non-ionic…	22B281013	1
hepart	Wolff® base half-fat cream	15001674	1
Hepart	Base cream, hydrophobic DAC	18002830	1
Herbasinica	Hydrophilic cream, non-ionic…	284899	1
Hirsch	Anionic hydrophilic cream DAB	12314701	1
Hirsch	Base cream, hydrophobic DAC	12J24-T01	2
Hochhaus-Apotheke	Anionic hydrophilic cream DAB	16250001	2
hochhaus-Apotheke	Anionic hydrophilic cream SR…	3016E-03195	1
Holdermann	Hydrophilic cream, non-ionic…	1B140113	1
Holdermann	Hydrophilic cream, non-ionic…	287712	1
Ichthyol / Gehe	Anionic hydrophilic cream wi…	17335601	2
Ichthyol Gesellschaft	Anionic hydrophilic cream SR…	17294501	1
Ichthyol Gesellschaft	Base cream, hydrophobic DAC	18100801	2
Ichthyol/Fiebig	Hydrophilic cream, non-ionic…	17294002	1
Ichthyol/Phönix	Anionic hydrophilic cream DAB	16150702	1
Ichthyol-Gesellschaft C…	Hydrophilic cream, non-ionic…	18002064	1
Ichthyol-Gesellschaft	Anionic hydrophilic cream SR…	303434	1
Infectopharm/Phönix	Base cream, hydrophobic DAC	S081801	1
infectopharm	Base cream, hydrophobic DAC		2
Infectopharm	Anionic hydrophilic cream SR…	14A150517	1
Jenne 15.11.21, 22,33EUR	Base cream, hydrophobic DAC	211125	1
Jenne/Maros	Anionic hydrophilic cream DAB	18298201	1
jenne	Base cream, hydrophobic DAC	1203488	1
Jenne	Anionic hydrophilic cream SR…	17201801	1
Jenne	Anionic hydrophilic cream DAB	17248401	1
Jenne	Anionic hydrophilic cream DAB	17299201	1
Jenne	Anionic hydrophilic cream DAB	17299601	1
Jenne	Anionic hydrophilic cream DAB	17299701	1
Jenne	Anionic hydrophilic cream DAB	18010401	1
Jenne	Anionic hydrophilic cream DAB	18010901	1
Jenne	Anionic hydrophilic cream DAB	18160302	1
Jenne	Anionic hydrophilic cream DAB	18168601	1
Jenne	Base cream, hydrophobic DAC	18173903	1
Jenne	Base cream, hydrophobic DAC	182221	1
Jenne	Anionic hydrophilic cream DAB	18242901	1
Jenne	Hydrophilic cream, non-ionic…	19003821	1
Jenne	Base cream, hydrophobic DAC	190206	2
Jenne	Anionic hydrophilic cream DAB	20001216	2
Jenne	Wolff® base half-fat cream	801470	4
Jenne	Wolff® base half-fat cream	908620	1
Kapferer	Anionic hydrophilic cream DAB	17270301	1
Kehr / Pharmachem	Base cream, hydrophobic DAC	141489	1
Kehr /Pharmachem	Base cream, hydrophobic DAC	190206	1
Kehr.22.06.20	Anionic hydrophilic cream DAB	20000029001	1
Kehr.24.03.2020	Anionic hydrophilic cream DAB	19273002	1
Kehr/ Celo 24.01.2020	Anionic hydrophilic cream DAB	19162001	1
Kehr/Dr.August Wolff	Wolff® base half-fat cream	705760	3
Kehr/Dr.August Wolff	Wolff® base half-fat cream	801470	1
Kehr/PKH Halle	Hydrophilic cream, non-ionic…	29B010818	1
Kehr/PKH Halle	Hydrophilic cream, non-ionic…	33B110918	2
Kehr	Anionic hydrophilic cream SR…	17000165	1
Kehr	Anionic hydrophilic cream wi…	17030301	1
Kehr	Anionic hydrophilic cream DAB	17045101	1
Kehr	Anionic hydrophilic cream DAB	17045501	1
Kehr	Anionic hydrophilic cream DAB	17084201	1
Kehr	Anionic hydrophilic cream DAB	17088801	1
Kehr	Anionic hydrophilic cream wi…	17156601	1
Kehr	Anionic hydrophilic cream DAB	18001559	1
Kehr	Anionic hydrophilic cream SR…	18002223	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Kehr	Base cream, hydrophobic DAC	18002826	1
Kehr	Base cream, hydrophobic DAC	18002827	1
Kehr	Anionic hydrophilic cream DAB	18003576	1
Kehr	Anionic hydrophilic cream SR...	18003785	1
Kehr	Anionic hydrophilic cream SR...	18005157	1
Kehr	Base cream, hydrophobic DAC	18051101	1
Kehr	Hydrophilic cream, non-ionic...	18106901	1
Kehr	Anionic hydrophilic cream wi...	18109801	2
Kehr	Hydrophilic cream, non-ionic...	18175201	1
kehr	Anionic hydrophilic cream DAB	19003980	1
Kehr	Anionic hydrophilic cream SR...	308218	1
Kehr	Hydrophilic cream, non-ionic...	309904	1
Kehr	Hydrophilic cream, non-ionic...	309908	1
Kehr	Base cream, hydrophobic DAC	310825	1
Kehr	Anionic hydrophilic cream SR...	311053	1
Kehr	Anionic hydrophilic cream DAB	311121	1
Klenk	Anionic hydrophilic cream DAB	16103301	2
Klenk	Anionic hydrophilic cream DAB	17299601	1
Klenk	Base cream, hydrophobic DAC	181198	1
Klenk	Anionic hydrophilic cream DAB	311124	1
Klosterring	Wolff® base half-fat cream	804080	1
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K202139	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K20220217	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K20220331	3
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K211117	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K2144	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K220112	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K220128	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K220413	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K220427	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K222123	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K292021	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K332021	2
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K352021	1
Kreuzäcker Apotheke Def...	Wolff® base half-fat cream	K502021	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	20210204-02K	1
Kreuzäcker Apotheke	Wolff® base half-fat cream	20210204K	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	202108K	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K0221	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K162021	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K162021-01	1
Kreuzäcker Apotheke	Wolff® base half-fat cream	K172021	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K211015-1	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K2111	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K2112	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K212021	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K2122	1
Kreuzäcker Apotheke	Wolff® base half-fat cream	K2321	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K2521	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K2521-1	1
Kreuzäcker Apotheke	Wolff® base half-fat cream	K322021	2
Kreuzäcker Apotheke	Wolff® base half-fat cream	K4821	2
Krieger am 28.05.19	Anionic hydrophilic cream DAB	18003585	1
Krieger	Anionic hydrophilic cream DAB	17270401	1
Krieger	Anionic hydrophilic cream SR...	17299701	1
Krieger	Anionic hydrophilic cream wi...	20000191001	1
Krieger	Anionic hydrophilic cream wi...	20004293001	1
Krieger	Wolff® base half-fat cream	705760	1
Kurpark Apo Defektur	Anionic hydrophilic cream DAB	17045301	1
Kurpark-Apotheke	Base cream, hydrophobic DAC	190638	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
L10	Anionic hydrophilic cream wi…	16290101	2
L10	Anionic hydrophilic cream DAB	17143401	1
L10	Anionic hydrophilic cream wi…	17261901	5
L10	Anionic hydrophilic cream wi…	18041501	1
L10	Anionic hydrophilic cream wi…	18180801	3
L11	Anionic hydrophilic cream wi…	16067401	1
L12	Anionic hydrophilic cream wi…	16290201	1
L12	Anionic hydrophilic cream wi…	17030202	1
L12	Anionic hydrophilic cream SR…	17101501	1
L12	Anionic hydrophilic cream wi…	17102001	2
L12	Anionic hydrophilic cream wi…	18109601	2
L12	Anionic hydrophilic cream SR…	18147501	1
lamotte/gehe	Anionic hydrophilic cream DAB	15200001	1
Lamotte/Phoenix	Anionic hydrophilic cream DAB	19206801	1
Lamotte	Anionic hydrophilic cream DAB	17299101	1
Lamotte	Anionic hydrophilic cream wi…	2x19192101	1
Leyh Pharma / Alliance …	Hydrophilic cream, non-ionic…	155221	1
LEYH PHARMA / Phönix Le…	Hydrophilic cream, non-ionic…	153621	1
LEYH PHARMA / Phönix Le…	Hydrophilic cream, non-ionic…	155221	1
Leyh Pharma / Phönix	Hydrophilic cream, non-ionic…	142311	1
Leyh Pharma / Phönix	Hydrophilic cream, non-ionic…	151711	1
Leyh Pharma / Phönix	Hydrophilic cream, non-ionic…	162241	1
Leyh Pharma / Phönix	Hydrophilic cream, non-ionic…	164441	1
Leyh Pharma / Phönix	Hydrophilic cream, non-ionic…	184131	1
Leyh Pharma / Phönix	Hydrophilic cream, non-ionic…	191021	1
Leyh Pharma GmbH / Phönix	Hydrophilic cream, non-ionic…	193021	1
Leyh Pharma GmbH / Phönix	Hydrophilic cream, non-ionic…	193721	1
Leyh Pharma GmbH Brotte…	Hydrophilic cream, non-ionic…	193021	1
Leyh Pharma GmbH Brotte…	Hydrophilic cream, non-ionic…	191021	2
Leyh Pharma GmbH/Anzag	Hydrophilic cream, non-ionic…	133121	1
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	172831	4
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	174221	4
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	174911	1
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	180611	1
Leyh Pharma GmbH	Hydrophilic cream, non-ionic…	180611	1
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	181721	5
Leyh Pharma GmbH	Hydrophilic cream, non-ionic…	181721	1
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	182731	6
Leyh Pharma GmbH	Hydrophilic cream, non-ionic…	184131	6
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	191021	4
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	193021	4
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	193721	6
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	200741	2
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	202411	1
Leyh Pharma Gmbh	Hydrophilic cream, non-ionic…	206741	1
Leyh Pharma/ Phönix	Hydrophilic cream, non-ionic…	133911	2
Leyh Pharma/ Phönix	Hydrophilic cream, non-ionic…	142311	1
Leyh Pharma/ Phönix	Hydrophilic cream, non-ionic…	143011	1
Leyh Pharma/ Phönix	Hydrophilic cream, non-ionic…	144021	1
Leyh Pharma/ Phönix	Hydrophilic cream, non-ionic…	150341	1
Leyh Pharma/ Phönix	Hydrophilic cream, non-ionic…	150751	1
Leyh Pharma/ Phönix	Hydrophilic cream, non-ionic…	155221	1
Leyh Pharma/ Phönix	Hydrophilic cream, non-ionic…	160651	1
Leyh Pharma/Anzag	Hydrophilic cream, non-ionic…	160651	1
Leyh Pharma/Gehe	Hydrophilic cream, non-ionic…	140551	1
Leyh Pharma/Kehr	Hydrophilic cream, non-ionic…	16017501	1
Leyh Pharma/Noweda	Hydrophilic cream, non-ionic…	162241	1
Leyh Pharma/Noweda	Hydrophilic cream, non-ionic…	163611	1
Leyh Pharma/Noweda	Hydrophilic cream, non-ionic…	170951	1
Leyh Pharma/Noweda	Hydrophilic cream, non-ionic…	172831	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Leyh Pharma/Noweda	Hydrophilic cream, non-ionic…	202411	1
Leyh Pharma/Phoenix	Hydrophilic cream, non-ionic…	172051	1
Leyh Pharma/Phoenix	Hydrophilic cream, non-ionic…	180611	1
Leyh Pharma/Phoenix	Hydrophilic cream, non-ionic…	181721	1
Leyh Pharma/Phoenix	Hydrophilic cream, non-ionic…	191021	1
Leyh Pharma/Phönix	Hydrophilic cream, non-ionic…	143011	1
Leyh Pharma/Phönix	Hydrophilic cream, non-ionic…	174221	1
Leyh Pharma/Sanacorp	Hydrophilic cream, non-ionic…	172051	1
Leyh Pharma/Sanacorp	Hydrophilic cream, non-ionic…	181721	1
Leyh Pharma/Sanacorp	Hydrophilic cream, non-ionic…	191021	1
Leyh Pharma/Sanacorp	Hydrophilic cream, non-ionic…	193021	1
Leyh Pharma	Hydrophilic cream, non-ionic…	134841	1
Leyh Pharma	Hydrophilic cream, non-ionic…	153041	2
Leyh Pharma	Hydrophilic cream, non-ionic…	15521	1
Leyh Pharma	Hydrophilic cream, non-ionic…	162241	1
Leyh Pharma	Anionic hydrophilic cream DAB	165231	1
Leyh Pharma	Hydrophilic cream, non-ionic…	172831	1
Leyh Pharma	Hydrophilic cream, non-ionic…	174221	1
Leyh Pharma	Hydrophilic cream, non-ionic…	180611	4
Leyh Phsrma GmbH / Phönix	Hydrophilic cream, non-ionic…	180611	1
Leyh/Gehe	Hydrophilic cream, non-ionic…	143011	2
Löwen City-Apotheke Bar…	Wolff® base half-fat cream	230200	1
Maros Arznei	Anionic hydrophilic cream DAB	18010302	1
Martinus-Apotheke	Anionic hydrophilic cream wi…	16067801	1
Max Jenne/Bomastus	Hydrophilic cream, non-ionic…	19006525	1
Max Jenne	Anionic hydrophilic cream DAB	19003972	1
medphano Arzneimittel	Base cream, hydrophobic DAC	6510115	1
medphano/Phönix	Base cream, hydrophobic DAC	6510115	4
Midas Göttingen	Base cream, hydrophobic DAC	16293901	1
Midas	Anionic hydrophilic cream DAB	16259601	1
Midas	Hydrophilic cream, non-ionic…	17000745	1
Midas	Anionic hydrophilic cream DAB	17298801	1
Midas	Anionic hydrophilic cream DAB	18010401	1
Midas	Anionic hydrophilic cream DAB	18116801	3
Nachprüfung 3083	Base cream, hydrophobic DAC	141318	1
Nachprüfung	Hydrophilic cream, non-ionic…	284899	1
Neidhardt	Anionic hydrophilic cream SR…	25A140714	1
noveda/Pharmachem	Base cream, hydrophobic DAC	20000448	1
noveda/Pharmachem	Base cream, hydrophobic DAC	20001227	2
Noveda	Base cream, hydrophobic DAC	19002002	1
Noveda	Anionic hydrophilic cream DAB	19002802	1
Noveda	Base cream, hydrophobic DAC	19058301	1
Noweda / Dr. August Wolff	Wolff® base half-fat cream	1110	1
Noweda / Dr. August Wolff	Wolff® base half-fat cream	6480	1
Noweda / Dr.Wolff	Wolff® base half-fat cream	904880	2
Noweda / Pharmachem	Base cream, hydrophobic DAC	1925681	1
Noweda 4.6.18	Base cream, hydrophobic DAC	180517	1
Noweda 8.7.2019	Anionic hydrophilic cream SR…	19000619	1
Noweda am 08.07.2019	Base cream, hydrophobic DAC	19002001	1
Noweda Pharmachem	Base cream, hydrophobic DAC	20001230	2
Noweda Pharmachem	Base cream, hydrophobic DAC	20001231	1
Noweda Taucha	Anionic hydrophilic cream SR…	21A221121	1
Noweda Taucha	Hydrophilic cream, non-ionic…	22001465	1
Noweda Taucha	Anionic hydrophilic cream DAB	22002131	1
Noweda/ Caesar&Lorenz G…	Anionic hydrophilic cream DAB	19162401	1
Noweda/ Caesar&Lorenz G…	Anionic hydrophilic cream wi…	19027401	1
Noweda/ Caesar&Lorenz G…	Anionic hydrophilic cream wi…	20000189001	1
Noweda/ Ichtyol	Base cream, hydrophobic DAC	12151601	2
Noweda/ Infecto Pharm	Anionic hydrophilic cream DAB	16264701	1
Noweda/ Pharmachem	Base cream, hydrophobic DAC	182220	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda/ Pharmachem	Base cream, hydrophobic DAC	18286701	1
Noweda/ Pharmachem	Anionic hydrophilic cream DAB	200000011	1
Noweda/AMH Niemann GmbH	Anionic hydrophilic cream SR...	25A141019	1
Noweda/AMH Niemann GmbH	Anionic hydrophilic cream SR...	36A041218	1
Noweda/AMH Niemann GmbH	Anionic hydrophilic cream SR...	5A050218	1
Noweda/AMX Niemann GmbH	Anionic hydrophilic cream SR...	24A100718	1
noweda/anzag	Base cream, hydrophobic DAC	190638	1
noweda/anzag	Base cream, hydrophobic DAC	191489	1
noweda/anzag	Hydrophilic cream, non-ionic...	19176502	1
Noweda/Caesar & Loretz ...	Anionic hydrophilic cream SR...	20000522003	1
Noweda/Dr. August Wolf	Wolff® base half-fat cream	905120	1
Noweda/Dr. Wolff	Wolff® base half-fat cream	501080	2
Noweda/Dr. Wolff	Wolff® base half-fat cream	510400	2
Noweda/Dr. Wolff	Wolff® base half-fat cream	605700	1
Noweda/Dr. Wolff	Wolff® base half-fat cream	606050	2
Noweda/Dr. Wolff	Wolff® base half-fat cream	7742	2
Noweda/Hedinger	Anionic hydrophilic cream DAB	17202001	1
Noweda/Pharmachem	Skin care ointment W/L SR	120416	1
Noweda/Pharmachem	Base cream, hydrophobic DAC	142154	1
Noweda/Pharmachem	Base cream, hydrophobic DAC	160137	1
Noweda/pharmachem	Anionic hydrophilic cream DAB	18066802	1
Noweda/Pharmachem	Base cream, hydrophobic DAC	180756	1
Noweda/pharmachem	Base cream, hydrophobic DAC	181196	1
Noweda/pharmachem	Base cream, hydrophobic DAC	181197	1
Noweda/Pharmachem	Skin care ointment W/L SR	270715	1
Noweda/Pharmachem0	Base cream, hydrophobic DAC	143094	1
Noweda/Wolff GmbH	Wolff® base half-fat cream	602290	1
Noweda	Wolff® base half-fat cream	10550	2
Noweda	Base cream, hydrophobic DAC	110413	2
Noweda	Base cream, hydrophobic DAC	11289203	1
noweda	Hydrophilic cream, non-ionic...	11B300620	1
Noweda	Base cream, hydrophobic DAC	12025002	1
Noweda	Anionic hydrophilic cream DAB	1218701	1
Noweda	Anionic hydrophilic cream DAB	12217801	1
Noweda	Anionic hydrophilic cream DAB	12265701	1
Noweda	Anionic hydrophilic cream DAB	12313202	1
Noweda	Anionic hydrophilic cream DAB	12314801	1
Noweda	Anionic hydrophilic cream DAB	13002705	1
Noweda	Anionic hydrophilic cream DAB	13035902	1
Noweda	Anionic hydrophilic cream DAB	13070301	1
Noweda	Anionic hydrophilic cream wi...	13072302	1
Noweda	Anionic hydrophilic cream wi...	13072401	1
Noweda	Anionic hydrophilic cream DAB	13154301	1
Noweda	Anionic hydrophilic cream DAB	13167401	1
Noweda	Anionic hydrophilic cream DAB	13168401	1
Noweda	Anionic hydrophilic cream DAB	13168601	1
Noweda	Anionic hydrophilic cream wi...	13172203	2
Noweda	Anionic hydrophilic cream DAB	13270801	1
Noweda	Anionic hydrophilic cream DAB	13280101	1
Noweda	Anionic hydrophilic cream wi...	13343301	1
Noweda	Anionic hydrophilic cream wi...	13343402	1
Noweda	Anionic hydrophilic cream DAB	13364001	2
Noweda	Base cream, hydrophobic DAC	14028101	1
Noweda	Anionic hydrophilic cream DAB	14062701	1
Noweda	Wolff® base half-fat cream	143650	1
Noweda	Anionic hydrophilic cream SR...	14A180619	1
Noweda	Base cream, hydrophobic DAC	152209	1
Noweda	Base cream, hydrophobic DAC	15221301	4
Noweda	Anionic hydrophilic cream SR...	15329601	1
Noweda	Anionic hydrophilic cream SR...	15386502	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Anionic hydrophilic cream DAB	15400501	1
Noweda	Anionic hydrophilic cream DAB	15428401	1
Noweda	Base cream, hydrophobic DAC	16074901	2
Noweda	Anionic hydrophilic cream DAB	16156401	2
Noweda	Base cream, hydrophobic DAC	16165403	1
Noweda	Anionic hydrophilic cream wi...	16191601	1
Noweda	Anionic hydrophilic cream DAB	16259001	1
Noweda	Anionic hydrophilic cream DAB	16260001	1
Noweda	Anionic hydrophilic cream wi...	16290501	1
Noweda	Base cream, hydrophobic DAC	16293701	1
Noweda	Anionic hydrophilic cream DAB	16317201	1
Noweda	Hydrophilic cream, non-ionic...	16321701	1
Noweda	Anionic hydrophilic cream DAB	16328201	1
Noweda	Anionic hydrophilic cream wi...	17030301	1
Noweda	Base cream, hydrophobic DAC	17073103	1
Noweda	Base cream, hydrophobic DAC	17073202	1
Noweda	Anionic hydrophilic cream DAB	17084101	2
Noweda	Anionic hydrophilic cream DAB	17088501	1
Noweda	Anionic hydrophilic cream DAB	17088901	1
Noweda	Anionic hydrophilic cream wi...	17102101	1
Noweda	Base cream, hydrophobic DAC	17112903	1
Noweda	Anionic hydrophilic cream DAB	17143001	3
Noweda	Anionic hydrophilic cream DAB	17143101	1
Noweda	Anionic hydrophilic cream DAB	17143401	1
Noweda	Anionic hydrophilic cream wi...	17156601	1
Noweda	Anionic hydrophilic cream DAB	17201501	1
Noweda	Anionic hydrophilic cream DAB	17201801	1
Noweda	Anionic hydrophilic cream DAB	17202101	1
Noweda	Base cream, hydrophobic DAC	172194	1
Noweda	Anionic hydrophilic cream DAB	17248501	1
Noweda	Anionic hydrophilic cream DAB	17248601	3
Noweda	Base cream, hydrophobic DAC	17255301	5
noweda	Hydrophilic cream, non-ionic...	17261002	1
Noweda	Anionic hydrophilic cream wi...	17262101	1
Noweda	Anionic hydrophilic cream DAB	17269801	1
Noweda	Anionic hydrophilic cream DAB	17270302	1
Noweda	Anionic hydrophilic cream DAB	17270401	1
Noweda	Hydrophilic cream, non-ionic...	17294002	1
Noweda	Anionic hydrophilic cream DAB	17299501	2
Noweda	Hydrophilic cream, non-ionic...	17313902	2
Noweda	Anionic hydrophilic cream SR...	17319502	1
Noweda	Anionic hydrophilic cream wi...	17335501	1
Noweda	Anionic hydrophilic cream SR...	17A120515	1
Noweda	Hydrophilic cream, non-ionic...	18001333	1
Noweda	Hydrophilic cream, non-ionic...	18002061	1
Noweda	Anionic hydrophilic cream SR...	18002226	1
Noweda	Anionic hydrophilic cream DAB	18003583	1
Noweda	Anionic hydrophilic cream DAB	18010302	1
Noweda	Anionic hydrophilic cream DAB	18011001	1
Noweda	Anionic hydrophilic cream DAB	18011101	12
Noweda	Anionic hydrophilic cream SR...	18041104	1
Noweda	Base cream, hydrophobic DAC	18051001	2
Noweda	Base cream, hydrophobic DAC	180515	3
Noweda	Base cream, hydrophobic DAC	18100801	1
Noweda	Anionic hydrophilic cream DAB	18160101	1
Noweda	Anionic hydrophilic cream DAB	18160301	3
Noweda	Anionic hydrophilic cream DAB	18169401	1
Noweda	Base cream, hydrophobic DAC	18173903	1
Noweda	Anionic hydrophilic cream wi...	18181001	1
Noweda	Anionic hydrophilic cream SR...	18218101	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Anionic hydrophilic cream SR...	18218102	1
Noweda	Base cream, hydrophobic DAC	182220	1
Noweda	Base cream, hydrophobic DAC	18242601	1
Noweda	Anionic hydrophilic cream DAB	18243501	3
Noweda	Base cream, hydrophobic DAC	18286701	1
Noweda	Base cream, hydrophobic DAC	18286702	1
Noweda	Anionic hydrophilic cream DAB	18298101	1
Noweda	Anionic hydrophilic cream DAB	18298201	1
Noweda	Anionic hydrophilic cream DAB	18298601	1
Noweda	Anionic hydrophilic cream DAB	18298701	1
Noweda	Hydrophilic cream, non-ionic...	19000222	2
Noweda	Base cream, hydrophobic DAC	19002001	1
Noweda	Base cream, hydrophobic DAC	19002003	1
Noweda	Hydrophilic cream, non-ionic...	19002039	1
Noweda	Hydrophilic cream, non-ionic...	19002041	1
Noweda	Anionic hydrophilic cream DAB	19002194	1
Noweda	Anionic hydrophilic cream DAB	19002205	1
Noweda	Anionic hydrophilic cream DAB	19003001	2
Noweda	Anionic hydrophilic cream DAB	19005017	1
Noweda	Anionic hydrophilic cream DAB	1900624	1
Noweda	Hydrophilic cream, non-ionic...	19006525	1
Noweda	Base cream, hydrophobic DAC	190207	1
noweda	Hydrophilic cream, non-ionic...	19055601	1
Noweda	Hydrophilic cream, non-ionic...	19055601	1
Noweda	Base cream, hydrophobic DAC	19058401	2
Noweda	Base cream, hydrophobic DAC	190640	1
Noweda	Anionic hydrophilic cream DAB	19071601	2
Noweda	Anionic hydrophilic cream DAB	19072101	1
Noweda	Anionic hydrophilic cream DAB	19072301	1
Noweda	Anionic hydrophilic cream DAB	19072901	1
Noweda	Anionic hydrophilic cream SR...	19093001	1
Noweda	Anionic hydrophilic cream wi...	19093702	1
Noweda	Base cream, hydrophobic DAC	19145602	1
Noweda	Anionic hydrophilic cream DAB	19161601	1
NOWEDA	Base cream, diluted	19190401	1
Noweda	Anionic hydrophilic cream wi...	19191901	1
Noweda	Anionic hydrophilic cream wi...	19192201	1
Noweda	Anionic hydrophilic cream DAB	19206201	1
Noweda	Anionic hydrophilic cream SR...	19240002	1
Noweda	Anionic hydrophilic cream wi...	19268203	1
Noweda	Anionic hydrophilic cream DAB	19272601	1
Noweda	Anionic hydrophilic cream DAB	19273002	1
Noweda	Anionic hydrophilic cream SR...	1A070119	1
Noweda	Hydrophilic cream, non-ionic...	1B070116	1
Noweda	Hydrophilic cream, non-ionic...	1B110122	1
Noweda	Anionic hydrophilic cream DAB	20000035	1
Noweda	Anionic hydrophilic cream DAB	20000313001	1
Noweda	Base cream, hydrophobic DAC	20000431	1
Noweda	Base cream, hydrophobic DAC	20000448	1
noweda	Anionic hydrophilic cream DAB	200006927001	1
Noweda	Hydrophilic cream, non-ionic...	20000806	1
Noweda	Anionic hydrophilic cream DAB	20000928001	1
Noweda	Hydrophilic cream, non-ionic...	20001014	1
Noweda	Anionic hydrophilic cream DAB	20001216	1
Noweda	Anionic hydrophilic cream DAB	20001217	1
Noweda	Base cream, hydrophobic DAC	20001230	1
Noweda	Anionic hydrophilic cream wi...	20001455001	1
Noweda	Anionic hydrophilic cream DAB	20001471001	1
Noweda	Anionic hydrophilic cream DAB	20001475001	1
Noweda	Base cream, hydrophobic DAC	20001593002	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Base cream, diluted	20001667001	1
noweda	Anionic hydrophilic cream SR...	20001774	1
Noweda	Anionic hydrophilic cream DAB	20002541	1
Noweda	Hydrophilic cream, non-ionic...	20002900	1
Noweda	Anionic hydrophilic cream DAB	20002942001	2
Noweda	Anionic hydrophilic cream SR...	20003015003	1
Noweda	Base cream, hydrophobic DAC	20003445001	1
Noweda	Base cream, hydrophobic DAC	20003445002	1
Noweda	Base cream, hydrophobic DAC	20003560	1
Noweda	Base cream, hydrophobic DAC	210000396001	1
Noweda	Anionic hydrophilic cream DAB	21000060	1
Noweda	Anionic hydrophilic cream wi...	21000682001	1
Noweda	Anionic hydrophilic cream DAB	21000925001	1
Noweda	Base cream, hydrophobic DAC	21001222003	1
Noweda	Anionic hydrophilic cream SR...	21001808	2
Noweda	Anionic hydrophilic cream DAB	21001812002	1
Noweda	Anionic hydrophilic cream DAB	21001814001	1
Noweda	Anionic hydrophilic cream wi...	21001943001	1
Noweda	Anionic hydrophilic cream DAB	21002611	1
Noweda	Hydrophilic cream, non-ionic...	21002711	1
Noweda	Base cream, hydrophobic DAC	21002902002	1
Noweda	Anionic hydrophilic cream DAB	21004556	1
Noweda	Hydrophilic cream, non-ionic...	21A050819	1
Noweda	Anionic hydrophilic cream SR...	22A040717	1
Noweda	Anionic hydrophilic cream SR...	22A150920	1
Noweda	Hydrophilic cream, non-ionic...	25A070819	1
Noweda	Anionic hydrophilic cream SR...	273695	1
Noweda	Anionic hydrophilic cream SR...	276074	1
Noweda	Anionic hydrophilic cream SR...	279326	1
Noweda	Anionic hydrophilic cream SR...	27A051119	1
Noweda	Anionic hydrophilic cream SR...	280572	1
Noweda	Anionic hydrophilic cream SR...	280741	2
Noweda	Anionic hydrophilic cream DAB	290147	2
Noweda	Hydrophilic cream, non-ionic...	291385	1
Noweda	Hydrophilic cream, non-ionic...	292805	1
Noweda	Hydrophilic cream, non-ionic...	294311	1
Noweda	Hydrophilic cream, non-ionic...	294390	2
Noweda	Hydrophilic cream, non-ionic...	294408	1
Noweda	Hydrophilic cream, non-ionic...	295648	1
Noweda	Hydrophilic cream, non-ionic...	297309	1
Noweda	Hydrophilic cream, non-ionic...	300760	1
Noweda	Base cream, hydrophobic DAC	307771	1
Noweda	Base cream, hydrophobic DAC	308508	2
Noweda	Hydrophilic cream, non-ionic...	309908	1
Noweda	Wolff® base half-fat cream	3542	2
Noweda	Anionic hydrophilic cream SR...	38A171115	1
Noweda	Anionic hydrophilic cream DAB	4208092	2
Noweda	Anionic hydrophlic cream wit...	6B040515	1
Noweda	Wolff® base half-fat cream	702500	1
Noweda	Wolff® base half-fat cream	705760	3
Noweda	Wolff® base half-fat cream	711250	1
Noweda	Wolff® base half-fat cream	801470	3
Noweda	Wolff® base half-fat cream	805720	2
Noweda	Wolff® base half-fat cream	810201	2
Noweda	Wolff® base half-fat cream	810800	1
Noweda	Wolff® base half-fat cream	901140	3
Noweda	Wolff® base half-fat cream	904880	4
Noweda	Wolff® base half-fat cream	905120	6
Noweda	Hydrophilic cream, non-ionic...	90714	1
Noweda	Wolff® base half-fat cream	908620	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Wolff® base half-fat cream	910460	2
Nowedea 15.7.17	Anionic hydrophilic cream SR...	17101501	1
Nowedwa/Dr.Wolff	Wolff® base half-fat cream	436750	2
Nowedwa/Dr.Wolff	Wolff® base half-fat cream	901930	1
Otto Fischar GmbH	Anionic hydrophilic cream DAB	17201601	2
Pala	Base cream, hydrophobic DAC	18002000	2
Pala	Anionic hydrophilic cream DAB	19272601	1
Pala	Hydrophilic cream, non-ionic...	306128	1
Phamachem GmbH	Base cream, hydrophobic DAC	120712	2
phar	Base cream, hydrophobic DAC	182170	1
Pharamachem/Alliance He...	Base cream, hydrophobic DAC	142154	1
Pharamachem/Alliance He...	Base cream, hydrophobic DAC	151258	1
pharma pößneck	Base cream, hydrophobic DAC	190206	1
pharma/phönix	Base cream, hydrophobic DAC	143094	1
Pharma/Phönix	Base cream, hydrophobic DAC	153627	1
Pharma/Phönix	Base cream, hydrophobic DAC	160136	2
Pharma/Phönix	Base cream, hydrophobic DAC	162168	1
Pharma/Phönix	Base cream, hydrophobic DAC	190206	2
Pharmaachen GmbH & Co.KG	Base cream, hydrophobic DAC	191489	1
Pharmacem	Base cream, hydrophobic DAC	172194	1
Pharmacem	Base cream, hydrophobic DAC	21001558	1
PharmacheGehe	Base cream, hydrophobic DAC	162167	3
PHARMACHEM / 20	Base cream, hydrophobic DAC	140885	1
Pharmachem / AHD	Base cream, hydrophobic DAC	170009	1
Pharmachem / AHD	Base cream, hydrophobic DAC	182220	1
Pharmachem / AHD	Base cream, hydrophobic DAC	20000431	1
Pharmachem / Alli	Base cream, hydrophobic DAC	190639	1
Pharmachem / Alliance HC	Anionic hydrophilic cream SR...	240118	1
Pharmachem / Alliance H...	Base cream, hydrophobic DAC	162168	2
Pharmachem / Alliance H...	Base cream, hydrophobic DAC	170010	2
Pharmachem / Alliance H...	Base cream, hydrophobic DAC	171817	1
Pharmachem / Alliance H...	Base cream, hydrophobic DAC	172194	1
Pharmachem / Alliance H...	Base cream, hydrophobic DAC	180757	1
Pharmachem / Alliance H...	Base cream, hydrophobic DAC	182221	2
Pharmachem / Alliance H...	Base cream, hydrophobic DAC	190206	1
Pharmachem / Alliance	Base cream, hydrophobic DAC	181196	1
Pharmachem / Alliance	Base cream, hydrophobic DAC	21003257	1
Pharmachem / Anzag	Base cream, hydrophobic DAC	171127	1
Pharmachem / Anzag	Base cream, hydrophobic DAC	230713	2
Pharmachem / Anzag	Hydrophilic cream, non-ionic...	282212	2
Pharmachem / GEHE	Base cream, hydrophobic DAC	171127	1
Pharmachem / Gehe	Base cream, hydrophobic DAC	171817	1
Pharmachem / Gehe	Base cream, hydrophobic DAC	172195	1
Pharmachem / Gehe	Base cream, hydrophobic DAC	172196	1
Pharmachem / Gehe	Base cream, hydrophobic DAC	180515	1
Pharmachem / Gehe	Base cream, hydrophobic DAC	180754	1
Pharmachem / Gehe	Base cream, hydrophobic DAC	180860	3
Pharmachem / Gehe	Base cream, hydrophobic DAC	181196	1
Pharmachem / Gehe	Base cream, hydrophobic DAC	182170	1
Pharmachem / Gehe	Base cream, hydrophobic DAC	182220	2
Pharmachem / Gehe	Base cream, hydrophobic DAC	20000448	3
Pharmachem / Gehe	Base cream, hydrophobic DAC	20001227	7
Pharmachem / Gehe	Base cream, hydrophobic DAC	20001233	1
Pharmachem / Gehe	Hydrophilic cream, non-ionic...	90714	1
Pharmachem / Jenne	Base cream, hydrophobic DAC	190004531	2
Pharmachem / Jenne	Base cream, hydrophobic DAC	19000732	1
Pharmachem / Jenne	Base cream, hydrophobic DAC	1925691	1
Pharmachem / Jenne	Base cream, hydrophobic DAC	20001231	1
Pharmachem / Jenne	Base cream, hydrophobic DAC	20001232	1
Pharmachem / Jenne	Base cream, hydrophobic DAC	20001233	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem / Jenne	Base cream, hydrophobic DAC	20001234	3
Pharmachem / Noweda	Skin care ointment W/L SR	170815	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	171815	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	171816	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	180517	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	180757	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	180860	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	181196	3
Pharmachem / Noweda	Base cream, hydrophobic DAC	181197	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	190209	3
Pharmachem / Noweda	Base cream, hydrophobic DAC	190637	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	190639	2
Pharmachem / Noweda	Base cream, hydrophobic DAC	190640	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	191487	3
Pharmachem / Noweda	Base cream, hydrophobic DAC	20003531	1
Pharmachem / Noweda	Base cream, hydrophobic DAC	2001232	1
Pharmachem / Phoenix	Base cream, hydrophobic DAC	172194	2
Pharmachem / Phoenix	Base cream, hydrophobic DAC	180515	1
Pharmachem / Phoenix	Base cream, hydrophobic DAC	180755	1
Pharmachem / Phoenix	Base cream, hydrophobic DAC	181198	1
Pharmachem / Phoenix	Base cream, hydrophobic DAC	182170	1
Pharmachem / Phoenix	Base cream, hydrophobic DAC	182220	2
Pharmachem / Phoenix	Base cream, hydrophobic DAC	190207	1
Pharmachem / Phoenix	Base cream, hydrophobic DAC	190638	1
Pharmachem / Phoenix	Base cream, hydrophobic DAC	190640	2
Pharmachem / Phoenix	Base cream, hydrophobic DAC	191488	1
Pharmachem / Phoenix	Base cream, hydrophobic DAC	1925661	2
Pharmachem / Phoenix	Base cream, hydrophobic DAC	1925662	1
Pharmachem / Phoenix	Base cream, hydrophobic DAC	20001230	1
Pharmachem / Phönix	Skin care ointment W/L SR	110319	1
Pharmachem / Phönix	Base cream, hydrophobic DAC	180515	2
Pharmachem / Phönix	Base cream, hydrophobic DAC	180755	1
Pharmachem / Phönix	Base cream, hydrophobic DAC	181198	1
Pharmachem / Phönix	Base cream, hydrophobic DAC	182220	2
Pharmachem / Phönix	Base cream, hydrophobic DAC	190004531	1
Pharmachem / Phönix	Base cream, hydrophobic DAC	190206	1
Pharmachem / Phönix	Base cream, hydrophobic DAC	190640	1
Pharmachem / Phönix	Base cream, hydrophobic DAC	191487	1
Pharmachem / Phönix	Base cream, hydrophobic DAC	191488	2
Pharmachem / Phönix	Base cream, hydrophobic DAC	20001227	1
Pharmachem / Phönix	Base cream, hydrophobic DAC	20003531	1
Pharmachem / Phönix	Base cream, hydrophobic DAC	21001558	1
Pharmachem / Phönix	Hydrophilic cream, non-ionic...	220713	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	151259	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	152209	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	160136	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	160825	2
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	170010	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	171127	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	172196	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	180515	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	180755	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	191489	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	1925681	2
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	1960638	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	20001230	1
Pharmachem / Sanacorp	Base cream, hydrophobic DAC	20003527	1
Pharmachem /Jenne	Base cream, hydrophobic DAC	192568164/20	1
Pharmachem /Phönix	Base cream, hydrophobic DAC	152209	1
Pharmachem /Phönix	Base cream, hydrophobic DAC	153626	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem /Phönix	Base cream, hydrophobic DAC	153627	1
Pharmachem /Phönix	Base cream, hydrophobic DAC	21003257	2
pharmachem /sanacorp	Base cream, hydrophobic DAC	20001227	1
Pharmachem AHD 1000 g	Base cream, hydrophobic DAC	21001560	1
Pharmachem AHD 500g	Base cream, hydrophobic DAC	20001231	4
Pharmachem AHD 500g	Base cream, hydrophobic DAC	20003530	1
Pharmachem AHD 500g	Base cream, hydrophobic DAC	20003531	1
Pharmachem Anzag	Base cream, hydrophobic DAC	141318	1
Pharmachem Anzag	Base cream, hydrophobic DAC	162168	1
Pharmachem Anzag	Base cream, hydrophobic DAC	163238	1
Pharmachem Anzag	Base cream, hydrophobic DAC	171128	1
Pharmachem Gehe	Base cream, hydrophobic DAC	180755	1
Pharmachem Gehe	Base cream, hydrophobic DAC	180756	1
Pharmachem Gehe	Base cream, hydrophobic DAC	181194	1
Pharmachem GmbH / Jenne	Base cream, hydrophobic DAC	181198	1
Pharmachem GmbH / Jenne	Base cream, hydrophobic DAC	20001230	1
Pharmachem GmbH & Co KG...	Base cream, hydrophobic DAC	20001228	1
Pharmachem GmbH & Co KG	Skin care ointment W/L SR	120419	1
Pharmachem GmbH & Co KG	Skin care ointment W/L SR	180619	2
Pharmachem GmbH & Co KG	Base cream, hydrophobic DAC	190004531	1
Pharmachem GmbH & Co KG	Base cream, hydrophobic DAC	190207	1
Pharmachem GmbH & Co KG	Base cream, hydrophobic DAC	191488	1
Pharmachem GmbH & Co KG	Base cream, hydrophobic DAC	1925661	1
Pharmachem GmbH & Co KG	Skin care ointment W/L SR	280210	1
Pharmachem GmbH & Co. K...	Base cream, hydrophobic DAC	17185	1
Pharmachem GmbH & Co. K...	Base cream, hydrophobic DAC	1925681	1
Pharmachem GmbH & Co. K...	Base cream, hydrophobic DAC	20001228	1
Pharmachem GmbH & Co. K...	Base cream, hydrophobic DAC	21001558	1
Pharmachem GmbH & Co. K...	Base cream, hydrophobic DAC	20003531	1
Pharmachem GmbH & Co. KG	Base cream, hydrophobic DAC	160825	1
Pharmachem GmbH & Co. KG	Base cream, hydrophobic DAC	162168	2
Pharmachem GmbH & Co. KG	Base cream, hydrophobic DAC	170009	2
Pharmachem GmbH & Co. KG	Base cream, hydrophobic DAC	170010	1
Pharmachem GmbH & Co. KG	Base cream, hydrophobic DAC	171817	1
Pharmachem GmbH & Co. KG	Base cream, hydrophobic DAC	172194	1
Pharmachem GmbH & Co. KG	Base cream, hydrophobic DAC	180755	1
Pharmachem GmbH & Co. KG	Base cream, hydrophobic DAC	182220	1
Pharmachem GmbH & Co. KG	Base cream, hydrophobic DAC	20001227	1
Pharmachem GmbH & Co.KG...	Base cream, hydrophobic DAC	181196	1
Pharmachem GmbH & Co.KG...	Base cream, hydrophobic DAC	180515	1
Pharmachem GmbH & Co.KG...	Base cream, hydrophobic DAC	190206	2
Pharmachem GmbH & Co.KG...	Base cream, hydrophobic DAC	190207	1
Pharmachem GmbH & Co.KG...	Base cream, hydrophobic DAC	191489	2
Pharmachem GmbH & Co.KG...	Base cream, hydrophobic DAC	1925661	1
Pharmachem GmbH & Co.KG...	Base cream, hydrophobic DAC	1925681	1
Pharmachem GmbH & Co.KG...	Base cream, hydrophobic DAC	20000431	1
Pharmachem GmbH & Co.KG...	Base cream, hydrophobic DAC	20001228	1
Pharmachem GmbH & Co.KG	Base cream, hydrophobic DAC	152209	1
Pharmachem GmbH & Co.KG	Base cream, hydrophobic DAC	160130	1
Pharmachem GmbH & Co.KG	Base cream, hydrophobic DAC	162168	1
Pharmachem GmbH & Co.KG	Base cream, hydrophobic DAC	172196	1
Pharmachem GmbH & Co.KG	Base cream, hydrophobic DAC	19000732	1
Pharmachem GmbH & Co.KG	Hydrophilic cream, non-ionic...	190918	1
Pharmachem GmbH & Co.KG	Base cream, hydrophobic DAC	191487	1
Pharmachem GmbH & Co.KG	Base cream, hydrophobic DAC	20000431	1
Pharmachem GmbH & Co.KG	Base cream, hydrophobic DAC	20001233	1
Pharmachem GmbH & Co.KG	Hydrophilic cream, non-ionic...	201015	5
Pharmachem GmbH & Co.KG	Hydrophilic cream, non-ionic...	240217	8
Pharmachem GmbH & CoKG	Base cream, hydrophobic DAC	140318	1
Pharmachem GmbH & CoKG	Base cream, hydrophobic DAC	140886	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem GmbH & CoKG	Base cream, hydrophobic DAC	143093	2
Pharmachem GmbH & CoKG	Base cream, hydrophobic DAC	153627	1
Pharmachem GmbH & CoKG	Base cream, hydrophobic DAC	1600825	1
Pharmachem GmbH & CoKG	Base cream, hydrophobic DAC	160136	1
Pharmachem GmbH & CoKG	Base cream, hydrophobic DAC	160814	1
Pharmachem GmbH & CoKG	Base cream, hydrophobic DAC	21013	1
Pharmachem Gmbh &Co.KG.	Base cream, hydrophobic DAC	171817	1
Pharmachem GmbH &CoKG/F...	Base cream, hydrophobic DAC	170010	1
Pharmachem GmbH &CoKG/F...	Base cream, hydrophobic DAC	20001227	2
Pharmachem GmbH / Allia...	Base cream, hydrophobic DAC	180515	1
Pharmachem GmbH / Allia...	Base cream, hydrophobic DAC	180757	1
Pharmachem GmbH / Allia...	Base cream, hydrophobic DAC	182220	1
Pharmachem GmbH / Allia...	Base cream, hydrophobic DAC	190206	1
Pharmachem GmbH / Anzag	Base cream, hydrophobic DAC	150405	1
Pharmachem GmbH / Anzag	Base cream, hydrophobic DAC	152209	1
Pharmachem GmbH / Anzag	Base cream, hydrophobic DAC	230713	1
Pharmachem GmbH / Phönix	Base cream, hydrophobic DAC	181198	1
Pharmachem GmbH /	Base cream, hydrophobic DAC	180515	1
Pharmachem GmbH /	Base cream, hydrophobic DAC	182220	1
Pharmachem GmbH /	Base cream, hydrophobic DAC	190639	1
Pharmachem GmbH /	Base cream, hydrophobic DAC	190640	1
Pharmachem GmbH Pößneck	Base cream, hydrophobic DAC	160825	1
Pharmachem GmbH Pößneck	Skin care ointment W/L SR	81117	1
Pharmachem GmbH u.Co.KG	Base cream, hydrophobic DAC	160130	1
Pharmachem GmbH u.Co.KG	Base cream, hydrophobic DAC	162168	1
Pharmachem GmbH u.Co.KG	Base cream, hydrophobic DAC	171815	1
Pharmachem GmbH u.Co.KG	Base cream, hydrophobic DAC	172194	1
Pharmachem GmbH u.Co.KG	Base cream, hydrophobic DAC	180756	1
Pharmachem GmbH u.Co.KG	Base cream, hydrophobic DAC	181198	2
Pharmachem GmbH und Co.KG	Base cream, hydrophobic DAC	191488	2
Pharmachem GmbH und Co.KG	Base cream, hydrophobic DAC	1925661	1
Pharmachem GmbH und Co.KG	Base cream, hydrophobic DAC	20000431	2
Pharmachem GmbH& Co. KG...	Base cream, hydrophobic DAC	20001230	1
Pharmachem GmbH& Co.KG	Skin care ointment W/L SR (w...	270711	1
Pharmachem GmbH&Co KG	Skin care ointment W/L SR	230911	1
Pharmachem GmbH&Co KG	Skin care ointment W/L SR (w...	90211	1
Pharmachem GmbH&Co.KG /...	Base cream, hydrophobic DAC	180755	3
Pharmachem GmbH&Co.KG /...	Base cream, hydrophobic DAC	190207	1
Pharmachem GmbH&Co.KG /...	Base cream, hydrophobic DAC	190640	1
Pharmachem GmbH&Co.KG /...	Base cream, hydrophobic DAC	20000431	1
Pharmachem GmbH&Co.KG /...	Base cream, hydrophobic DAC	20001231	1
Pharmachem GmbH&Co.KG/J...	Base cream, hydrophobic DAC	20003529	1
Pharmachem GmbH&Co.KG/J...	Base cream, hydrophobic DAC	21001559	1
Pharmachem GmbH&Co.KG/N...	Base cream, hydrophobic DAC	172194	1
Pharmachem GmbH&Co.KG/N...	Base cream, hydrophobic DAC	181198	1
Pharmachem GmbH&Co.KG/P...	Base cream, hydrophobic DAC	1925681	1
Pharmachem GmbH&Co.KG	Base cream, hydrophobic DAC	141489	1
Pharmachem GmbH&Co.KG	Base cream, hydrophobic DAC	160825	3
Pharmachem GmbH&Co.KG	Base cream, hydrophobic DAC	180754	1
pharmachem GmbH&Co.KG	Base cream, hydrophobic DAC	20001228	2
Pharmachem GmbH&Co.KG	Base cream, hydrophobic DAC	20003527	1
Pharmachem GmbH&Co.KG	Base cream, hydrophobic DAC	21013	1
Pharmachem GmbH&Co.KG	Hydrophilic cream, non-ionic...	90714	1
Pharmachem GmbH/ AHD	Base cream, hydrophobic DAC	191489	1
Pharmachem GmbH/ Noweda	Base cream, hydrophobic DAC	180755	1
Pharmachem GmbH/ Noweda	Base cream, hydrophobic DAC	181198	1
Pharmachem GmbH/ Noweda	Base cream, hydrophobic DAC	190207	2
Pharmachem GmbH/ Noweda	Base cream, hydrophobic DAC	190640	1
Pharmachem GmbH/ Noweda	Base cream, hydrophobic DAC	20000431	1
Pharmachem Gmbh/AHD	Base cream, hydrophobic DAC	171815	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem GmbH/GEHE	Base cream, hydrophobic DAC	182221	1
Pharmachem GmbH/GEHE	Base cream, hydrophobic DAC	190638	1
Pharmachem GmbH/GEHE	Base cream, hydrophobic DAC	1925681	1
Pharmachem GmbH/Gehe	Base cream, hydrophobic DAC	20000448	1
Pharmachem GmbH/GEHE	Base cream, hydrophobic DAC	20001227	1
Pharmachem GmbH/Gehe	Base cream, hydrophobic DAC	21003257	1
Pharmachem GmbH/Kehr	Base cream, hydrophobic DAC	191487	1
Pharmachem GmbH/Noweda	Base cream, hydrophobic DAC	150405	1
Pharmachem GmbH/Phoenix	Base cream, hydrophobic DAC	20001227	1
Pharmachem GmbH/Phönix	Base cream, hydrophobic DAC	171127	1
Pharmachem GmbH/Phönix	Base cream, hydrophobic DAC	190640	1
Pharmachem GmbH/Phönix	Base cream, hydrophobic DAC	20001227	1
Pharmachem GmbH/Phönix	Anionic hydrophilic cream SR...	260712	3
Pharmachem GmbH	Base cream, hydrophobic DAC	120712	1
Pharmachem GmbH	Base cream, hydrophobic DAC	140885	1
Pharmachem GmbH	Base cream, hydrophobic DAC	140886	1
Pharmachem Gmbh	Base cream, hydrophobic DAC	141489	1
Pharmachem Gmbh	Base cream, hydrophobic DAC	142154	1
Pharmachem Gmbh	Base cream, hydrophobic DAC	143094	1
Pharmachem Gmbh	Base cream, hydrophobic DAC	150405	2
Pharmachem GmbH	Base cream, hydrophobic DAC	151259	1
Pharmachem GmbH	Base cream, hydrophobic DAC	153627	1
Pharmachem GmbH	Base cream, hydrophobic DAC	160826	1
Pharmachem GmbH	Base cream, hydrophobic DAC	162168	1
Pharmachem GmbH	Base cream, hydrophobic DAC	162169	1
Pharmachem GmbH	Base cream, hydrophobic DAC	17009	1
Pharmachem GmbH	Base cream, hydrophobic DAC	171128	1
Pharmachem GmbH	Base cream, hydrophobic DAC	172194	2
Pharmachem GmbH	Base cream, hydrophobic DAC	180515	3
Pharmachem GmbH	Base cream, hydrophobic DAC	180756	1
Pharmachem GmbH	Base cream, hydrophobic DAC	181194	2
Pharmachem GmbH	Base cream, hydrophobic DAC	181196	1
pharmachem gmbh	Base cream, hydrophobic DAC	181197	1
Pharmachem GmbH	Base cream, hydrophobic DAC	181197	12
Pharmachem GmbH	Base cream, hydrophobic DAC	181198	8
Pharmachem GmbH	Base cream, hydrophobic DAC	182221	1
Pharmachem GmbH	Base cream, hydrophobic DAC	19000732	1
Pharmachem GmbH	Base cream, hydrophobic DAC	190206	1
Pharmachem GmbH	Base cream, hydrophobic DAC	190207	3
Pharmachem GmbH	Base cream, hydrophobic DAC	190638	1
Pharmachem GmbH	Base cream, hydrophobic DAC	190639	1
Pharmachem GmbH	Base cream, hydrophobic DAC	190640	1
Pharmachem GmbH	Base cream, hydrophobic DAC	191487	1
Pharmachem GmbH	Base cream, hydrophobic DAC	191488	3
Pharmachem GmbH	Base cream, hydrophobic DAC	191489	1
Pharmachem GmbH	Base cream, hydrophobic DAC	1925681	1
Pharmachem GmbH	Base cream, hydrophobic DAC	1925691	1
Pharmachem GmbH	Base cream, hydrophobic DAC	20000431	1
Pharmachem GmbH	Base cream, hydrophobic DAC	20000448	4
Pharmachem GmbH	Base cream, hydrophobic DAC	20001228	1
Pharmachem GmbH	Base cream, hydrophobic DAC	20001231	5
Pharmachem GmbH	Base cream, hydrophobic DAC	20001232	1
Pharmachem GmbH	Base cream, hydrophobic DAC	20003528	2
Pharmachem GmbH	Base cream, hydrophobic DAC	20003529	2
Pharmachem GmbH	Base cream, hydrophobic DAC	21001558	1
Pharmachem GmbH	Skin care ointment W/L SR	220118	1
Pharmachem GmbH	Hydrophilic cream, non-ionic...	220713	2
Pharmachem GmbH	Base cream, hydrophobic DAC	240113	2
Pharmachem GmbH	Base cream, hydrophobic DAC	261112	3
Pharmachem GmbH	Hydrophilic cream, non-ionic...	50912	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem Noweda	Base cream, hydrophobic DAC	162168	1
Pharmachem Pösneck/ Now...	Base cream, hydrophobic DAC	141318	1
Pharmachem Pösneck/Noweda	Skin care ointment W/L SR	111016	1
Pharmachem Pößneck 004	Base cream, hydrophobic DAC	261112	1
Pharmachem Pößneck GmbH...	Base cream, hydrophobic DAC	172194	1
Pharmachem Pößneck GmbH...	Base cream, hydrophobic DAC	180756	2
Pharmachem Pößneck GmbH...	Anionic hydrophilic cream SR...	240915	5
Pharmachem Pößneck GmbH...	Anionic hydrophilic cream SR...	300317	2
Pharmachem Pößneck GmbH...	Base cream, hydrophobic DAC	170008	1
Pharmachem Pößneck GmbH...	Base cream, hydrophobic DAC	171127	2
Pharmachem Pößneck GmbH...	Base cream, hydrophobic DAC	171815	1
Pharmachem Pößneck GmbH...	Base cream, hydrophobic DAC	180754	1
Pharmachem Pößneck GmbH...	Base cream, hydrophobic DAC	180755	2
Pharmachem Pößneck GmbH...	Base cream, hydrophobic DAC	181194	2
Pharmachem Pößneck GmbH...	Base cream, hydrophobic DAC	181196	1
Pharmachem Pößneck/ Now...	Base cream, hydrophobic DAC	1925681	1
Pharmachem Pößneck/ Now...	Base cream, hydrophobic DAC	20003530	1
Pharmachem Pößneck/AHD	Base cream, hydrophobic DAC	180757	2
Pharmachem Pößneck/AHD	Base cream, hydrophobic DAC	181194	1
Pharmachem Pößneck/AHD	Base cream, hydrophobic DAC	200004493	1
Pharmachem Pößneck/E.J	Base cream, hydrophobic DAC	180756	1
Pharmachem Pößneck/GEHE	Base cream, hydrophobic DAC	180515	1
Pharmachem Pößneck/Gehe	Base cream, hydrophobic DAC	20001227	3
Pharmachem Pößneck/Noweda	Base cream, hydrophobic DAC	1925691	1
Pharmachem Pößneck/Noweda	Base cream, hydrophobic DAC	200035562	1
Pharmachem Pößneck/Noweda	Base cream, hydrophobic DAC	210014391	1
Pharmachem Pößneck/Phoe...	Base cream, hydrophobic DAC	153627	1
Pharmachem Pößneck/Phoe...	Base cream, hydrophobic DAC	170010	1
Pharmachem Pößneck/Phönix	Base cream, hydrophobic DAC	160825	1
Pharmachem Pößneck/Phönix	Base cream, hydrophobic DAC	191489	1
Pharmachem Pößneck/Sana...	Base cream, hydrophobic DAC	143093	2
Pharmachem Pößneck/Sana...	Base cream, hydrophobic DAC	152210	1
Pharmachem Pößneck/Sana...	Base cream, hydrophobic DAC	153625	1
Pharmachem Pößneck/Sana...	Base cream, hydrophobic DAC	153626	1
Pharmachem Pößneck/Sana...	Base cream, hydrophobic DAC	160137	2
Pharmachem Pößneck/Sana...	Base cream, hydrophobic DAC	160826	2
Pharmachem Pößneck/Sana...	Base cream, hydrophobic DAC	181198	1
Pharmachem Pößneck/Sana...	Base cream, hydrophobic DAC	190638	2
Pharmachem Pößneck	Skin care ointment W/L SR	100516	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	110413	1
pharmachem Pößneck	Base cream, hydrophobic DAC	143119	1
pharmachem pößneck	Base cream, hydrophobic DAC	160130	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	160825	2
Pharmachem Pößneck	Base cream, hydrophobic DAC	162169	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	163238	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	170010	2
pharmachem pößneck	Base cream, hydrophobic DAC	171127	3
Pharmachem Pößneck	Base cream, hydrophobic DAC	171127	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	171816	2
Pharmachem Pößneck	Base cream, hydrophobic DAC	171817	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	172194	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	172195	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	172196	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	180517	2
Pharmachem Pößneck	Skin care ointment W/L SR	180619	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	180755	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	180757	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	180816	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	181194	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	181196	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem Pößneck	Base cream, hydrophobic DAC	182220	3
Pharmachem Pößneck	Base cream, hydrophobic DAC	182221	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	19000732	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	190209	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	190638	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	190640	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	1925691	1
Pharmachem Poßneck	Base cream, hydrophobic DAC	20000448	1
Pharmachem Pößneck	Base cream, hydrophobic DAC	20000448	1
pharmachem./ Noweda	Hydrophilic cream, non-ionic...	190918	1
pharmachem./ Noweda	Hydrophilic cream, non-ionic...	290519	1
Pharmachem./Gehe	Base cream, hydrophobic DAC	20001227	3
Pharmachem./Gehe	Base cream, hydrophobic DAC	20001228	2
Pharmachem./Noweda	Base cream, hydrophobic DAC	171817	1
Pharmachem./Noweda	Base cream, hydrophobic DAC	172196	1
PHARMACHEM./PHOENIX	Base cream, hydrophobic DAC	172195	1
PHARMACHEM./PHOENIX	Base cream, hydrophobic DAC	172196	1
PHARMACHEM./PHOENIX	Base cream, hydrophobic DAC	181198	1
PHARMACHEM./PHOENIX	Base cream, hydrophobic DAC	182220	1
PHARMACHEM./PHOENIX	Base cream, hydrophobic DAC	191488	1
PHARMACHEM./PHOENIX	Base cream, hydrophobic DAC	1925661	1
PHARMACHEM./PHOENIX	Base cream, hydrophobic DAC	1925682	1
PHARMACHEM./PHOENIX	Base cream, hydrophobic DAC	1925691	1
Pharmachem.Thüringen	Base cream, hydrophobic DAC	172194	1
Pharmachem.Thüringen	Base cream, hydrophobic DAC	180515	1
Pharmachem.Thüringen	Base cream, hydrophobic DAC	180756	1
Pharmachem/ /Sanacorp	Base cream, hydrophobic DAC	140885	1
Pharmachem/ AHD	Base cream, hydrophobic DAC	172196	1
Pharmachem/ AHD	Base cream, hydrophobic DAC	180757	1
Pharmachem/ AHD	Base cream, hydrophobic DAC	182220	1
Pharmachem/ AHD	Base cream, hydrophobic DAC	190209	2
Pharmachem/ AHD	Base cream, hydrophobic DAC	191488	1
Pharmachem/ AHD	Base cream, hydrophobic DAC	1923234	1
Pharmachem/ Alliance He...	Base cream, hydrophobic DAC	152209	1
Pharmachem/ Alliance He...	Base cream, hydrophobic DAC	181196	1
Pharmachem/ Alliance He...	Base cream, hydrophobic DAC	181197	2
Pharmachem/ Alliance He...	Base cream, hydrophobic DAC	190209	1
Pharmachem/ Alliance	Base cream, hydrophobic DAC	19000732	2
Pharmachem/ Alliance	Base cream, hydrophobic DAC	20003529	2
Pharmachem/ Alliance	Base cream, hydrophobic DAC	21001560	1
Pharmachem/ Anzag	Base cream, hydrophobic DAC	153627	1
Pharmachem/ Anzag	Base cream, hydrophobic DAC	163238	1
Pharmachem/ Anzag	Base cream, hydrophobic DAC	171817	1
Pharmachem/ Anzag	Base cream, hydrophobic DAC	180757	1
Pharmachem/ Anzag	Base cream, hydrophobic DAC	181197	2
Pharmachem/ Anzag	Base cream, hydrophobic DAC	19000732	1
Pharmachem/ Anzag	Base cream, hydrophobic DAC	190206	1
Pharmachem/ Anzag	Base cream, hydrophobic DAC	191489	1
Pharmachem/ Anzag	Base cream, hydrophobic DAC	1925691	1
Pharmachem/ Fiebig	Base cream, hydrophobic DAC	171127	1
Pharmachem/ Gehe	Base cream, hydrophobic DAC	150404	1
Pharmachem/ Gehe	Base cream, hydrophobic DAC	1511258	1
Pharmachem/ Gehe	Base cream, hydrophobic DAC	152210	1
Pharmachem/ Gehe	Base cream, hydrophobic DAC	160814	1
Pharmachem/ Gehe	Base cream, hydrophobic DAC	160826	1
Pharmachem/ Gehe	Base cream, hydrophobic DAC	162169	1
pharmachem/ Gehe	Base cream, hydrophobic DAC	180756	1
pharmachem/ Gehe	Base cream, hydrophobic DAC	181198	1
Pharmachem/ GEHE	Base cream, hydrophobic DAC	190219	1
Pharmachem/ Gehe	Base cream, hydrophobic DAC	1925691	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem/ Gehe	Base cream, hydrophobic DAC	20000431	1
Pharmachem/ Gehe	Base cream, hydrophobic DAC	20001232	1
Pharmachem/ Krieger	Base cream, hydrophobic DAC	190207	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	141489	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	142154	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	143094	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	151259	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	152209	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	160136	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	162167	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	162169	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	172194	2
Pharmachem/ Noweda	Base cream, hydrophobic DAC	180515	1
Pharmachem/ Noweda	Skin care ointment W/L SR	180914	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	182220	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	190640	2
Pharmachem/ Noweda	Anionic hydrophilic cream SR...	200000012	1
Pharmachem/ Noweda	Base cream, hydrophobic DAC	20000431	1
Pharmachem/ Noweda	Anionic hydrophilic cream SR...	220219	1
Pharmachem/ Noweda	Anionic hydrophilic cream SR...	240118	1
Pharmachem/ Noweda	Skin care ointment W/L SR	260814	1
Pharmachem/ Phoenix	Base cream, hydrophobic DAC	153625	1
Pharmachem/ Phoenix	Base cream, hydrophobic DAC	182220	1
Pharmachem/ Phoenix	Base cream, hydrophobic DAC	190637	1
Pharmachem/ Phoenix	Base cream, hydrophobic DAC	20000431	1
Pharmachem/ Phoenix	Base cream, hydrophobic DAC	20000448	1
Pharmachem/ Phönix	Base cream, hydrophobic DAC	160130	1
Pharmachem/ Phönix	Base cream, hydrophobic DAC	170009	2
Pharmachem/ Phönix	Base cream, hydrophobic DAC	170010	2
Pharmachem/ Phönix	Base cream, hydrophobic DAC	171127	1
Pharmachem/ Phönix	Base cream, hydrophobic DAC	171815	1
Pharmachem/ Phönix	Base cream, hydrophobic DAC	172194	1
Pharmachem/ Phönix	Base cream, hydrophobic DAC	191488	1
Pharmachem/ Phönix	Base cream, hydrophobic DAC	1925661	2
Pharmachem/ Phönix	Base cream, hydrophobic DAC	20000431	1
Pharmachem/ Phönix	Base cream, hydrophobic DAC	20001231	1
Pharmachem/ Sanacorp	Anionic hydrophlic cream wit...	10B060916	1
Pharmachem/ Sanacorp	Base cream, hydrophobic DAC	140886	1
Pharmachem/ Sanacorp	Skin care ointment W/L SR	141015	1
Pharmachem/ Sanacorp	Base cream, hydrophobic DAC	160825	1
Pharmachem/ Sanacorp	Base cream, hydrophobic DAC	162168	2
Pharmachem/ Sanacorp	Skin care ointment W/L SR	170117	1
Pharmachem/ Sanacorp	Base cream, hydrophobic DAC	182221	1
Pharmachem/ Sanacorp	Base cream, hydrophobic DAC	190638	2
Pharmachem/ Sanacorp	Base cream, hydrophobic DAC	191488	2
Pharmachem/ Sanacorp	Base cream, hydrophobic DAC	20001227	2
Pharmachem/ Sanacorp	Base cream, hydrophobic DAC	20001228	2
Pharmachem/30	Base cream, hydrophobic DAC	141317	2
Pharmachem/30	Base cream, hydrophobic DAC	21013	1
Pharmachem/AHD	Base cream, hydrophobic DAC	110413	2
Pharmachem/AHD	Base cream, hydrophobic DAC	150405	1
Pharmachem/AHD	Base cream, hydrophobic DAC	160825	1
Pharmachem/AHD	Base cream, hydrophobic DAC	171127	5
Pharmachem/AHD	Base cream, hydrophobic DAC	172194	1
Pharmachem/AHD	Base cream, hydrophobic DAC	172195	1
Pharmachem/AHD	Base cream, hydrophobic DAC	180754	1
Pharmachem/AHD	Base cream, hydrophobic DAC	180757	4
Pharmachem/AHD	Base cream, hydrophobic DAC	181196	1
Pharmachem/AHD	Base cream, hydrophobic DAC	181197	1
Pharmachem/AHD	Base cream, hydrophobic DAC	181198	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem/AHD	Base cream, hydrophobic DAC	182220	2
Pharmachem/AHD	Base cream, hydrophobic DAC	190004531	3
Pharmachem/AHD	Base cream, hydrophobic DAC	19000732	1
Pharmachem/AHD	Base cream, hydrophobic DAC	190207	1
Pharmachem/AHD	Base cream, hydrophobic DAC	190209	1
Pharmachem/AHD	Base cream, hydrophobic DAC	190638	1
Pharmachem/AHD	Base cream, hydrophobic DAC	190639	1
Pharmachem/AHD	Base cream, hydrophobic DAC	191487	1
Pharmachem/AHD	Base cream, hydrophobic DAC	1923234	3
Pharmachem/AHD	Base cream, hydrophobic DAC	1925691	2
Pharmachem/AHD	Base cream, hydrophobic DAC	20000448	2
Pharmachem/AHD	Anionic hydrophilic cream SR...	220219	3
Pharmachem/AHD	Base cream, hydrophobic DAC	230713	1
Pharmachem/AHD	Base cream, hydrophobic DAC	231213	2
Pharmachem/AHD	Base cream, hydrophobic DAC	261112	1
Pharmachem/AHD	Base cream, hydrophobic DAC	26112	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	190209	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	160138	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	162168	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	162170	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	170008	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	172194	3
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	172195	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	180756	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	181194	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	181198	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	190637	1
Pharmachem/Alliance Hea...	Base cream, hydrophobic DAC	191489	1
Pharmachem/Alliance	Base cream, hydrophobic DAC	190638	1
Pharmachem/Alliance	Base cream, hydrophobic DAC	191489	1
Pharmachem/Alliance	Base cream, hydrophobic DAC	1925681	1
Pharmachem/Alliance	Base cream, hydrophobic DAC	20001227	1
Pharmachem/Anzag	Base cream, hydrophobic DAC	152209	3
Pharmachem/Anzag	Base cream, hydrophobic DAC	160136	1
Pharmachem/Anzag	Base cream, hydrophobic DAC	171127	2
Pharmachem/Anzag	Base cream, hydrophobic DAC	180756	1
Pharmachem/Anzag	Base cream, hydrophobic DAC	181198	1
Pharmachem/Anzag	Base cream, hydrophobic DAC	182220	1
Pharmachem/Anzag	Base cream, hydrophobic DAC	190206	1
Pharmachem/Anzag	Base cream, hydrophobic DAC	190207	1
Pharmachem/Anzag	Base cream, hydrophobic DAC	190640	1
Pharmachem/Anzag	Base cream, hydrophobic DAC	1925661	1
Pharmachem/E&J	Base cream, hydrophobic DAC	170009	1
Pharmachem/E&J	Base cream, hydrophobic DAC	171816	1
Pharmachem/E&J	Base cream, hydrophobic DAC	180757	1
Pharmachem/E&J	Base cream, hydrophobic DAC	180860	1
Pharmachem/Fiebi	Base cream, hydrophobic DAC	190638	1
Pharmachem/Fiebig	Base cream, hydrophobic DAC	182221	1
Pharmachem/Fiebig	Base cream, hydrophobic DAC	19000732	1
Pharmachem/Fiebig	Base cream, hydrophobic DAC	20000431	1
Pharmachem/Gehe 27.09.18	Base cream, hydrophobic DAC	181194	3
Pharmachem/Gehe 31.12.18	Base cream, hydrophobic DAC	181197	3
Pharmachem/Gehe	Skin care ointment W/L SR	100712	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	120712	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	141318	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	141489	1
Pharmachem/GEHE	Base cream, hydrophobic DAC	141489	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	151258	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	151259	5
Pharmachem/Gehe	Base cream, hydrophobic DAC	152209	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem/Gehe	Base cream, hydrophobic DAC	152211	3
Pharmachem/Gehe	Base cream, hydrophobic DAC	153625	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	160130	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	160825	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	162168	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	162169	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	162170	3
Pharmachem/Gehe	Base cream, hydrophobic DAC	170008	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	170010	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	171815	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	172194	3
Pharmachem/GEHE	Base cream, hydrophobic DAC	172194	4
Pharmachem/Gehe	Base cream, hydrophobic DAC	172195	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	172196	3
Pharmachem/Gehe	Base cream, hydrophobic DAC	180517	4
Pharmachem/Gehe	Base cream, hydrophobic DAC	180754	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	180755	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	180756	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	180860	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	181194	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	181196	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	181197	2
Pharmachem/GEHE	Base cream, hydrophobic DAC	181197	3
Pharmachem/Gehe	Base cream, hydrophobic DAC	182221	3
Pharmachem/Gehe	Base cream, hydrophobic DAC	190209	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	190263	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	190638	6
Pharmachem/GEHE	Base cream, hydrophobic DAC	190638	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	190639	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	191487	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	191488	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	191489	3
Pharmachem/Gehe	Base cream, hydrophobic DAC	192323	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	1925661	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	1925681	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	20000431	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	20000448	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	20001227	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	20001228	9
Pharmachem/GEHE	Base cream, hydrophobic DAC	20001228	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	20001230	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	20001234	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	20003527	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	20003528	1
Pharmachem/GEHE	Base cream, hydrophobic DAC	20003530	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	21013	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	231213	1
Pharmachem/Gehe	Base cream, hydrophobic DAC	240113	2
Pharmachem/Gehe	Base cream, hydrophobic DAC	6107319	1
Pharmachem/Jenne	Base cream, hydrophobic DAC	180755	1
Pharmachem/Jenne	Base cream, hydrophobic DAC	190206	1
Pharmachem/Jenne	Base cream, hydrophobic DAC	190638	1
Pharmachem/Jenne	Base cream, hydrophobic DAC	1925661	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	153627	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	162168	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	180515	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	180745	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	180756	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	18221	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	182220	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem/Kehr	Base cream, hydrophobic DAC	182221	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	190004531	2
Pharmachem/Kehr	Base cream, hydrophobic DAC	190206	2
Pharmachem/Kehr	Base cream, hydrophobic DAC	190637	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	190638	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	191489	2
Pharmachem/Kehr	Base cream, hydrophobic DAC	1925682	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	1925691	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	20000431	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	20000448	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	20001228	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	20001232	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	20001233	1
Pharmachem/Kehr	Base cream, hydrophobic DAC	20003527	1
Pharmachem/Noweda	Skin care ointment W/L SR	110416	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	142154	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	143093	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	143094	1
Pharmachem/Noweda	Anionic hydrophilic cream SR...	150716	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	151259	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	160136	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	160825	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	162168	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	163237	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	170010	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	171127	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	171128	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	171815	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	171816	3
Pharmachem/Noweda	Base cream, hydrophobic DAC	172194	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	172196	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	180517	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	180755	2
Pharmachem/NOWEDA	Base cream, hydrophobic DAC	180755	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	180756	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	180860	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	181194	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	181196	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	181197	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	182221	3
Pharmachem/Noweda	Base cream, hydrophobic DAC	190206	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	190209	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	190637	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	190638	5
Pharmachem/Noweda	Base cream, hydrophobic DAC	190639	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	191489	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	1925661	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	1925681	2
Pharmachem/Noweda	Base cream, hydrophobic DAC	200001234	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	20000448	4
Pharmachem/Noweda	Base cream, hydrophobic DAC	20001227	7
Pharmachem/Noweda	Base cream, hydrophobic DAC	20001228	4
Pharmachem/Noweda	Base cream, hydrophobic DAC	230713	1
Pharmachem/Noweda	Base cream, hydrophobic DAC	231213	1
Pharmachem/Noweda	Hydrophilic cream, non-ionic...	240217	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	152210	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	160138	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	162168	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	162170	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	163238	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem/Phoenix	Base cream, hydrophobic DAC	171815	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	171816	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	172196	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	180517	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	180754	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	180755	2
Pharmachem/Phoenix	Base cream, hydrophobic DAC	180756	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	180860	2
Pharmachem/Phoenix	Base cream, hydrophobic DAC	181196	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	181198	2
pharmachem/Phoenix	Base cream, hydrophobic DAC	182220	2
Pharmachem/Phoenix	Base cream, hydrophobic DAC	182220	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	190206	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	190207	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	190512705	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	191041909	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	20001231	1
Pharmachem/Phoenix	Hydrophilic cream, non-ionic...	201015	3
Pharmachem/Phoenix	Base cream, hydrophobic DAC	21003258	1
Pharmachem/Phoenix	Anionic hydrophilic cream SR...	220219	1
Pharmachem/Phoenix	Base cream, hydrophobic DAC	240113	1
Pharmachem/Phoenix	Anionic hydrophilic cream SR...	240118	2
Pharmachem/Phoenix	Anionic hydrophilic cream SR...	300317	3
Pharmachem/Phoenix	Hydrophilic cream, non-ionic...	50912	4
Pharmachem/Phoenix	Hydrophilic cream, non-ionic...	90714	1
Pharmachem/Phönix 03.08...	Skin care ointment W/L SR	250418	1
PharmaChem/Phönix	Skin care ointment W/L SR	110319	1
Pharmachem/Phönix	Anionic hydrophilic cream SR...	110913	1
PharmaChem/Phönix	Skin care ointment W/L SR	120419	2
Pharmachem/Phönix	Anionic hydrophilic cream SR...	130814	1
PharmaChem/Phönix	Skin care ointment W/L SR	151118	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	151259	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	153625	2
Pharmachem/Phönix	Base cream, hydrophobic DAC	153626	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	160136	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	160814	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	163238	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	170008	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	170009	1
PharmaChem/Phönix	Skin care ointment W/L SR	170119	2
Pharmachem/Phönix	Hydrophilic cream, non-ionic...	170412	1
PharmaChem/Phönix	Skin care ointment W/L SR	170918	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	171185	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	171815	2
Pharmachem/Phönix	Base cream, hydrophobic DAC	171817	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	172194	3
Pharmachem/Phönix	Base cream, hydrophobic DAC	172196	1
PharmaChem/Phönix	Skin care ointment W/L SR	180619	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	180756	3
Pharmachem/Phönix	Base cream, hydrophobic DAC	180757	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	181194	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	181197	2
Pharmachem/Phönix	Base cream, hydrophobic DAC	190209	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	1925661	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	1925681	1
pharmachem/Phönix	Base cream, hydrophobic DAC	1925691	3
Pharmachem/Phönix	Base cream, hydrophobic DAC	20001227	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	20001230	1
Pharmachem/Phönix	Base cream, hydrophobic DAC	20001233	2
Pharmachem/Phönix	Base cream, hydrophobic DAC	21001558	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
PharmaChem/Phönix	Skin care ointment W/L SR	220118	1
Pharmachem/Phönix	Hydrophilic cream, non-ionic...	220713	12
Pharmachem/Phönix	Base cream, hydrophobic DAC	231213	1
Pharmachem/Phönix	Anionic hydrophilic cream SR...	290413	1
PharmaChem/Phönix	Skin care ointment W/L SR	290419	1
PharmaChem/Phönix	Skin care ointment W/L SR	50718	1
Pharmachem/Sana	Base cream, hydrophobic DAC	142154	1
Pharmachem/Sana	Base cream, hydrophobic DAC	152209	1
Pharmachem/Sana	Base cream, hydrophobic DAC	160825	2
Pharmachem/Sanacorp/ Ph...	Base cream, hydrophobic DAC	19H21-T0710	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	143094	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	151259	2
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	15221	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	160814	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	170010	3
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	171127	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	171815	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	172195	5
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	172196	3
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	180517	2
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	180755	2
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	180756	4
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	180757	10
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	181194	4
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	181196	4
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	181198	2
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	190004531	5
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	190206	3
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	190207	2
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	190209	2
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	190637	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	190639	3
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	191487	8
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	191488	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	191489	2
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	1923234	9
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	1925661	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	1925681	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	1925682	10
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	1925691	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	20001227	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	20001228	4
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	20001233	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	20001234	1
Pharmachem/Sanacorp	Base cream, hydrophobic DAC	20003527	2
pharmachem/spangro	Base cream, hydrophobic DAC	142154	1
pharmachem	Base cream, hydrophobic DAC	110413	1
Pharmachem	Base cream, hydrophobic DAC	110413	7
PharmaChem	Base cream, hydrophobic DAC	110413	1
Pharmachem	Base cream, hydrophobic DAC	131011	1
Pharmachem	Base cream, hydrophobic DAC	131211	2
Pharmachem	Base cream, hydrophobic DAC	140885	2
pharmachem	Base cream, hydrophobic DAC	140886	1
Pharmachem	Base cream, hydrophobic DAC	140886	3
Pharmachem	Base cream, hydrophobic DAC	141317	2
Pharmachem	Base cream, hydrophobic DAC	141318	1
PharmaChem	Base cream, hydrophobic DAC	141318	2
Pharmachem	Base cream, hydrophobic DAC	141489	2
Pharmachem	Base cream, hydrophobic DAC	142154	7
Pharmachem	Base cream, hydrophobic DAC	142155	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem	Base cream, hydrophobic DAC	143093	6
Pharmachem	Base cream, hydrophobic DAC	143094	11
Pharmachem	Base cream, hydrophobic DAC	150404	3
Pharmachem	Base cream, hydrophobic DAC	150405	4
Pharmachem	Anionic hydrophilic cream SR...	150716	2
Pharmachem	Skin care ointment W/L SR	151118	1
pharmachem	Base cream, hydrophobic DAC	151258	2
Pharmachem	Base cream, hydrophobic DAC	151258	6
Pharmachem	Base cream, hydrophobic DAC	151259	5
Pharmachem	Base cream, hydrophobic DAC	152209	4
Pharmachem	Base cream, hydrophobic DAC	152210	2
Pharmachem	Base cream, hydrophobic DAC	152211	3
Pharmachem	Base cream, hydrophobic DAC	153625	8
Pharmachem	Base cream, hydrophobic DAC	153626	5
Pharmachem	Base cream, hydrophobic DAC	153627	14
pharmachem	Base cream, hydrophobic DAC	160130	1
Pharmachem	Base cream, hydrophobic DAC	160130	9
pharmachem	Base cream, hydrophobic DAC	160136	1
Pharmachem	Base cream, hydrophobic DAC	160136	9
Pharmachem	Base cream, hydrophobic DAC	160137	2
Pharmachem	Base cream, hydrophobic DAC	160138	2
Pharmachem	Skin care ointment W/L SR	160418	1
Pharmachem	Base cream, hydrophobic DAC	160814	3
pharmachem	Base cream, hydrophobic DAC	160825	1
Pharmachem	Base cream, hydrophobic DAC	160825	11
Pharmachem	Base cream, hydrophobic DAC	160826	4
Pharmachem	Base cream, hydrophobic DAC	162167	7
pharmachem	Base cream, hydrophobic DAC	162168	1
Pharmachem	Base cream, hydrophobic DAC	162168	8
Pharmachem	Base cream, hydrophobic DAC	162169	7
pharmachem	Base cream, hydrophobic DAC	162170	1
Pharmachem	Base cream, hydrophobic DAC	162170	5
Pharmachem	Base cream, hydrophobic DAC	163237	4
Pharmachem	Base cream, hydrophobic DAC	163238	3
Pharmachem	Base cream, hydrophobic DAC	170008	5
Pharmachem	Base cream, hydrophobic DAC	170009	5
Pharmachem	Base cream, hydrophobic DAC	170010	4
Pharmachem	Hydrophilic cream, non-ionic...	170412	2
Pharmachem	Base cream, hydrophobic DAC	171127	5
Pharmachem	Base cream, hydrophobic DAC	171128	8
Pharmachem	Base cream, hydrophobic DAC	171815	7
Pharmachem	Base cream, hydrophobic DAC	171816	3
Pharmachem	Base cream, hydrophobic DAC	171817	5
Pharmachem	Base cream, hydrophobic DAC	171817(2x)	2
Pharmachem	Base cream, hydrophobic DAC	17196	1
Pharmachem	Base cream, hydrophobic DAC	171B16	1
Pharmachem	Base cream, hydrophobic DAC	1721195	1
Pharmachem	Base cream, hydrophobic DAC	172194	6
Pharmachem	Base cream, hydrophobic DAC	1721945506	1
Pharmachem	Base cream, hydrophobic DAC	172195	9
Pharmachem	Base cream, hydrophobic DAC	172196	6
pharmachem	Base cream, hydrophobic DAC	180515	2
Pharmachem	Base cream, hydrophobic DAC	180515	11
Pharmachem	Base cream, hydrophobic DAC	180517	5
Pharmachem	Skin care ointment W/L SR	180619	1
Pharmachem	Base cream, hydrophobic DAC	180755	10
Pharmachem	Base cream, hydrophobic DAC	180756	11
Pharmachem	Base cream, hydrophobic DAC	180757	1
Pharmachem	Base cream, hydrophobic DAC	180759	1
pharmachem	Base cream, hydrophobic DAC	180860	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem	Base cream, hydrophobic DAC	180860	2
pharmachem	Base cream, hydrophobic DAC	181194	1
Pharmachem	Base cream, hydrophobic DAC	181194	3
Pharmachem	Base cream, hydrophobic DAC	181196	3
Pharmachem	Base cream, hydrophobic DAC	181197	2
Pharmachem	Base cream, hydrophobic DAC	181198	6
Pharmachem	Base cream, hydrophobic DAC	182170	2
Pharmachem	Base cream, hydrophobic DAC	182220	1
Pharmachem	Base cream, hydrophobic DAC	182221	7
Pharmachem	Base cream, hydrophobic DAC	190004531	4
pharmachem	Base cream, hydrophobic DAC	19000732	3
Pharmachem	Base cream, hydrophobic DAC	19000732	4
Pharmachem	Base cream, hydrophobic DAC	190206	5
Pharmachem	Base cream, hydrophobic DAC	190207	3
pharmachem	Base cream, hydrophobic DAC	190209	1
Pharmachem	Base cream, hydrophobic DAC	190209	5
Pharmachem	Base cream, hydrophobic DAC	190637	5
Pharmachem	Base cream, hydrophobic DAC	190638	12
Pharmachem	Base cream, hydrophobic DAC	190639	8
Pharmachem	Base cream, hydrophobic DAC	190640	3
Pharmachem	Hydrophilic cream, non-ionic...	190918	3
Pharmachem	Base cream, hydrophobic DAC	1914487	1
Pharmachem	Base cream, hydrophobic DAC	191487	5
pharmachem	Base cream, hydrophobic DAC	191488	2
Pharmachem	Base cream, hydrophobic DAC	191488	7
Pharmachem	Base cream, hydrophobic DAC	191489	5
Pharmachem	Base cream, hydrophobic DAC	1923234	4
Pharmachem	Base cream, hydrophobic DAC	1925661	3
Pharmachem	Base cream, hydrophobic DAC	1925662	1
pharmachem	Base cream, hydrophobic DAC	1925681	1
Pharmachem	Base cream, hydrophobic DAC	1925681	9
Pharmachem	Base cream, hydrophobic DAC	1925682	2
pharmachem	Base cream, hydrophobic DAC	1925691	1
Pharmachem	Base cream, hydrophobic DAC	1925691	5
pharmachem	Base cream, hydrophobic DAC	20000431	1
Pharmachem	Base cream, hydrophobic DAC	20000431	4
Pharmachem	Base cream, hydrophobic DAC	20000448	4
Pharmachem	Base cream, hydrophobic DAC	20001227	3
Pharmachem	Base cream, hydrophobic DAC	20001228	1
Pharmachem	Base cream, hydrophobic DAC	20001230	5
pharmachem	Base cream, hydrophobic DAC	20001232	3
Pharmachem	Base cream, hydrophobic DAC	20001232	4
Pharmachem	Base cream, hydrophobic DAC	20001233	2
Pharmachem	Base cream, hydrophobic DAC	20001234	2
Pharmachem	Base cream, hydrophobic DAC	20003528	1
Pharmachem	Base cream, hydrophobic DAC	20003531	3
PharmaChem	Base cream, hydrophobic DAC	20003531	1
Pharmachem	Hydrophilic cream, non-ionic...	201015	1
Pharmachem	Skin care ointment W/L SR	20316	1
Pharmachem	Base cream, hydrophobic DAC	21001558	2
Pharmachem	Base cream, hydrophobic DAC	21003257	3
Pharmachem	Base cream, hydrophobic DAC	21003259	1
Pharmachem	Base cream, hydrophobic DAC	21013	2
Pharmachem	Anionic hydrophilic cream SR...	220219	2
Pharmachem	Hydrophilic cream, non-ionic...	220713	3
Pharmachem	Base cream, hydrophobic DAC	230713	1
pharmachem	Base cream, hydrophobic DAC	231213	1
Pharmachem	Base cream, hydrophobic DAC	231213	2
Pharmachem	Anionic hydrophilic cream SR...	240118	5
Pharmachem	Hydrophilic cream, non-ionic...	240217	10

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachem	Anionic hydrophilic cream SR...	240915	1
Pharmachem	Hydrophilic cream, non-ionic...	2608101	1
Pharmachem	Base cream, hydrophobic DAC	261112	1
Pharmachem	Skin care ointment W/L SR	280210	1
Pharmachem	Base cream, hydrophobic DAC	2x171816	1
Pharmachem	Base cream, hydrophobic DAC	2x180757	1
Pharmachem	Anionic hydrophilic cream SR...	300317	3
Pharmachem	Anionic hydrophilic cream DAB	304104	1
Pharmachem	Skin care ointment W/L SR	310718	2
Pharmachem	Hydrophilic cream, non-ionic...	6B150316	1
Pharmachem	Base cream, hydrophobic DAC	7676	1
Pharmachem	Hydrophilic cream, non-ionic...	80611	1
Pharmachem	Skin care ointment W/L SR	90216	1
Pharmachem	Base cream, hydrophobic DAC	90638	1
Pharmachem	Hydrophilic cream, non-ionic...	90714	6
Pharmachem;	Base cream, hydrophobic DAC	160136	1
PharmachemGmbH/Gehe	Base cream, hydrophobic DAC	20001230	2
PharmachemGmbH/Gehe	Base cream, hydrophobic DAC	20001234	1
PharmachemGmbH/Noweda	Base cream, hydrophobic DAC	160825	1
PharmachemGmbH/Noweda	Base cream, hydrophobic DAC	162168	1
PharmachemGmbH/Noweda	Base cream, hydrophobic DAC	18002831	1
PharmachemGmbH/Phönix	Base cream, hydrophobic DAC	181198	2
Pharmachemie Pößneck	Anionic hydrophilic cream SR...	150716	2
Pharmachemie Pößneck	Anionic hydrophilic cream SR...	300317	1
Pharmachemie Pößneck	Anionic hydrophilic cream SR...	303017	1
Pharmachemie/Phönix 30....	Skin care ointment W/L SR	240418	2
Pharmachemie	Anionic hydrophilic cream SR...	240915	1
Pharmachen GmbH / Sana...	Base cream, hydrophobic DAC	1925661	1
Pharmachen GmbH / Sana...	Base cream, hydrophobic DAC	20000448	1
Pharmachen GmbH / Sana...	Base cream, hydrophobic DAC	20001233	1
Pharmachen GmbH & Co. K...	Base cream, hydrophobic DAC	182220	1
pharmachen gmbh&co.kg/ ...	Base cream, hydrophobic DAC	181198	1
pharmachen gmbh&co.kg/ ...	Base cream, hydrophobic DAC	190638	2
pharmachen gmbh&co.kg/ ...	Base cream, hydrophobic DAC	191489	1
Pharmachen GmbH&Co.KG	Base cream, hydrophobic DAC	20001231	1
Pharmachen GmbH&Co.KG	Base cream, hydrophobic DAC	20003530	1
Pharmachen GmbH/ Sanacorp	Base cream, hydrophobic DAC	180755	1
Pharmachen GmbH/Allianc...	Base cream, hydrophobic DAC	162169	1
Pharmachen GmbH/Allianc...	Base cream, hydrophobic DAC	191488	2
Pharmachen GmbH/Gehe	Base cream, hydrophobic DAC	141318	1
Pharmachen GmbH/Gehe	Base cream, hydrophobic DAC	143094	3
Pharmachen GmbH/Gehe	Base cream, hydrophobic DAC	151258	2
Pharmachen GmbH/Gehe	Base cream, hydrophobic DAC	153625	2
Pharmachen GmbH/Gehe	Base cream, hydrophobic DAC	160130	2
Pharmachen GmbH/Gehe	Base cream, hydrophobic DAC	190206	1
Pharmachen GmbH/Gehe	Base cream, hydrophobic DAC	21013	1
Pharmachen Gmbh	Base cream, hydrophobic DAC	152209	1
Pharmachen GmbH	Base cream, hydrophobic DAC	160136	1
Pharmachen GmbH	Base cream, hydrophobic DAC	171815	1
Pharmachen GmbH	Base cream, hydrophobic DAC	171817	1
Pharmachen GmbH	Base cream, hydrophobic DAC	172195	1
Pharmachen GmbH	Hydrophilic cream, non-ionic...	201015	7
Pharmachen Pößneck	Base cream, hydrophobic DAC	150405	2
Pharmachen Pößneck	Base cream, hydrophobic DAC	151258	1
Pharmachen Pößneck	Base cream, hydrophobic DAC	162167	1
Pharmachen Pößneck	Base cream, hydrophobic DAC	261112	1
Pharmachen/ Noweda	Base cream, hydrophobic DAC	20003529	3
Pharmachen/Gehe	Base cream, hydrophobic DAC	160826	1
Pharmachen/gehe	Base cream, hydrophobic DAC	162170	1
Pharmachen/Gehe	Base cream, hydrophobic DAC	170010	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmachen/Gehe	Base cream, hydrophobic DAC	171815	4
Pharmachen/Gehe	Base cream, hydrophobic DAC	172194	1
Pharmachen/Gehe	Base cream, hydrophobic DAC	180515	2
Pharmachen/Gehe	Base cream, hydrophobic DAC	180755	3
Pharmachen/Gehe	Base cream, hydrophobic DAC	190638	1
Pharmachen/Gehe	Base cream, hydrophobic DAC	20001228	1
Pharmachen/Noweda	Base cream, hydrophobic DAC	171126	3
Pharmachen/Noweda	Base cream, hydrophobic DAC	20000448	1
Pharmachen/Phoenix	Base cream, hydrophobic DAC	171127	1
Pharmachen/Sana	Base cream, hydrophobic DAC	190638	1
Pharmachen/Sana	Base cream, hydrophobic DAC	2001227	1
Pharmachen/Sanacorp	Base cream, hydrophobic DAC	1925681	1
Pharmachen/Sanacorp	Base cream, hydrophobic DAC	20001227	3
Pharmachen/Sanacorp	Base cream, hydrophobic DAC	20003530	2
Pharmachen	Base cream, hydrophobic DAC	140885	1
Pharmachen	Base cream, hydrophobic DAC	141318	1
Pharmachen	Base cream, hydrophobic DAC	142154	3
Pharmachen	Base cream, hydrophobic DAC	143094	1
Pharmachen	Base cream, hydrophobic DAC	151258	2
Pharmachen	Base cream, hydrophobic DAC	152209	1
Pharmachen	Base cream, hydrophobic DAC	153637	1
Pharmachen	Base cream, hydrophobic DAC	160130	1
Pharmachen	Base cream, hydrophobic DAC	162168	1
Pharmachen	Base cream, hydrophobic DAC	162170	1
Pharmachen	Base cream, hydrophobic DAC	170009	1
Pharmachen	Base cream, hydrophobic DAC	171127	1
Pharmachen	Base cream, hydrophobic DAC	180755	1
Pharmachen	Base cream, hydrophobic DAC	181197	1
Pharmachen	Base cream, hydrophobic DAC	182220	2
Pharmachen	Base cream, hydrophobic DAC	190207	1
Pharmachen	Base cream, hydrophobic DAC	20001234	1
Pharmachen	Base cream, hydrophobic DAC	21013	1
Pharmachen	Base cream, hydrophobic DAC	231213	1
pharmachen	Base cream, hydrophobic DAC	240113	1
Pharmachen	Base cream, hydrophobic DAC	240113	1
PharmaChin/ Anzag	Base cream, hydrophobic DAC	230713	1
Pharmamachem/ AHD	Base cream, hydrophobic DAC	180515	1
Pharmamachem/ AHD	Base cream, hydrophobic DAC	180860	1
Pharmamachem/ AHD	Base cream, hydrophobic DAC	181194	1
Pharmamachem/ AHD	Base cream, hydrophobic DAC	181197	1
Pharmamachem/ AHD	Base cream, hydrophobic DAC	190639	1
Pharmamachem/Phoenix	Base cream, hydrophobic DAC	180755	3
Pharmamachem/Phoenix	Base cream, hydrophobic DAC	181198	1
Pharmamachem/Phoenix	Base cream, hydrophobic DAC	190207	3
Pharmamachem/Phoenix	Base cream, hydrophobic DAC	191488	2
Pharmamachen/Novatis	Base cream, hydrophobic DAC	20001227	1
Pharmamacher GmbH/Allia...	Base cream, hydrophobic DAC	190640	1
Pharmamacher GmbH/Allia...	Base cream, hydrophobic DAC	191488	1
Pharmamacher/Noweda	Base cream, hydrophobic DAC	181198	1
Pharmamacher/Noweda	Base cream, hydrophobic DAC	190206	1
Pharmamacher/Noweda	Base cream, hydrophobic DAC	190640	1
Pharmarchem GmbH/Phönix	Base cream, hydrophobic DAC	20001233	1
Pharmarchen/Alliance	Base cream, hydrophobic DAC	1925662	1
Pharmchem / Noweda	Base cream, hydrophobic DAC	180755	1
Pharmchem / Noweda	Base cream, hydrophobic DAC	190640	3
Pharmchem / Noweda	Base cream, hydrophobic DAC	1925661	4
Pharmchem / Phönix	Base cream, hydrophobic DAC	20000431	2
Pharmchem / Phönix	Base cream, hydrophobic DAC	20001231	2
Pharmchem / Sanacorp	Base cream, hydrophobic DAC	160826	1
Pharmchem/Phönix	Base cream, hydrophobic DAC	20003530	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Pharmchem/Sanacorp	Base cream, hydrophobic DAC	162169	1
Pharmchem	Base cream, hydrophobic DAC	181198	1
PhCHEM/Phönix	Base cream, hydrophobic DAC	162170	2
PHK/Phönix	Anionic hydrophilic cream SR...	6A260219	1
Phoenix 20.2.2014	Anionic hydrophilic cream DAB	13313501	1
Phoenix (PKH Halle)	Anionic hydrophilic cream SR...	30A021012	1
Phoenix (PKH Halle)	Anionic hydrophilic cream SR...	33A151012	1
Phoenix / Dr.August Wolff	Wolff® base half-fat cream	141812	4
phoenix /Hennry Lamotte	Anionic hydrophilic cream DAB	20000402001	1
Phoenix 01.09.2017	Anionic hydrophilic cream DAB	17142601	1
Phoenix 04.02.2020 5,08EUR	Anionic hydrophilic cream SR...	19003575	1
Phoenix 07.01.2019 6,01EUR	Anionic hydrophilic cream DAB	18169001	1
Phoenix 09.01.2014	Anionic hydrophilic cream DAB	13313501	1
Phoenix 11.07.2014	Anionic hydrophilic cream DAB	14139001	2
PHOENIX 11.09.2014	Base cream, hydrophobic DAC	14061501	1
Phoenix 13.09.19 6,79EUR	Base cream, hydrophobic DAC	19058401	1
Phoenix 14.01.2015 Ek: ...	Anionic hydrophilic cream DAB	14295101	1
PHOENIX 22.05.2014	Anionic hydrophilic cream DAB	14061801	1
Phoenix 24.01.2014	Anionic hydrophilic cream DAB	13346101	1
Phoenix 26.11.13	Anionic hydrophilic cream DAB	13265501	1
Phoenix 27.02.18 6,09EUR	Anionic hydrophilic cream DAB	17200703	1
Phoenix 29.08.2014 5,78	Anionic hydrophilic cream DAB	14186601	1
Phoenix Calo	Base cream, hydrophobic DAC	20000426001	1
Phoenix Calo	Base cream, hydrophobic DAC	20001592001	1
Phoenix Goettin	Anionic hydrophilic cream DAB	293439	1
Phoenix Leipzig 14.08.17	Anionic hydrophilic cream SR...	19A200617	1
Phoenix/Beiersdorf	Anionic hydrophilic cream DAB	17143201	2
Phoenix/Cealo	Base cream, hydrophobic DAC	172194	1
Phoenix/Dr Wolff	Wolff® base half-fat cream	3542	1
phoenix/noveda	Anionic hydrophilic cream DAB	15267501	1
Phoenix/Pharmachem	Base cream, hydrophobic DAC	110413	1
Phoenix/Pharmachem	Base cream, hydrophobic DAC	191489	1
Phoenix/Wolff	Wolff® base half-fat cream	333930	1
Phoenix	Anionic hydrophilic cream DAB	12011001	1
Phoenix	Anionic hydrophilic cream DAB	12313301	1
Phoenix	Anionic hydrophilic cream DAB	13038201	1
Phoenix	Base cream, hydrophobic DAC	13175902	1
Phoenix	Anionic hydrophilic cream DAB	13314901	1
Phoenix	Anionic hydrophilic cream DAB	13364201	1
Phoenix	Anionic hydrophilic cream DAB	14016602	1
Phoenix	Base cream, hydrophobic DAC	14028101	1
Phoenix	Anionic hydrophilic cream wi...	14030702	1
Phoenix	Base cream, hydrophobic DAC	14061501	2
Phoenix	Anionic hydrophilic cream DAB	14118201	1
Phoenix	Anionic hydrophilic cream DAB	14139001	1
Phoenix	Base cream, hydrophobic DAC	14145401	2
Phoenix	Anionic hydrophilic cream wi...	14146001	2
Phoenix	Base cream, hydrophobic DAC	15001001	1
Phoenix	Base cream, hydrophobic DAC	16075101	2
Phoenix	Base cream, hydrophobic DAC	16174201	1
Phoenix	Anionic hydrophilic cream SR...	16188903	1
Phoenix	Anionic hydrophilic cream DAB	16322801	1
Phoenix	Anionic hydrophilic cream SR...	17001702	1
Phoenix	Anionic hydrophilic cream SR...	17001708	1
Phoenix	Anionic hydrophilic cream wi...	17029901	1
Phoenix	Anionic hydrophilic cream DAB	17045401	1
Phoenix	Anionic hydrophilic cream DAB	17054201	1
Phoenix	Base cream, hydrophobic DAC	17073202	1
Phoenix	Anionic hydrophilic cream DAB	17143301	1
Phoenix	Anionic hydrophilic cream DAB	17143701	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Anionic hydrophilic cream DAB	17201102	1
Phoenix	Anionic hydrophilic cream DAB	17202301	1
Phoenix	Anionic hydrophilic cream SR...	17270401	1
Phoenix	Anionic hydrophilic cream DAB	17298901	1
Phoenix	Anionic hydrophilic cream DAB	17299101	1
Phoenix	Anionic hydrophilic cream DAB	18000252	1
Phoenix	Anionic hydrophilic cream SR...	18001475	1
Phoenix	Anionic hydrophilic cream DAB	18001556	1
Phoenix	Anionic hydrophilic cream DAB	18001562	1
Phoenix	Anionic hydrophilic cream DAB	18004835	1
Phoenix	Hydrophilic cream, non-ionic...	18005881	1
Phoenix	Anionic hydrophilic cream DAB	18006023	1
Phoenix	Anionic hydrophilic cream SR...	18006283	1
Phoenix	Anionic hydrophilic cream SR...	18006628	1
Phoenix	Anionic hydrophilic cream DAB	18010901	1
Phoenix	Anionic hydrophilic cream wi...	18041401	1
Phoenix	Base cream, hydrophobic DAC	18051001	1
Phoenix	Base cream, hydrophobic DAC	18051101	2
Phoenix	Base cream, hydrophobic DAC	180754	2
Phoenix	Anionic hydrophilic cream wi...	18181001	1
Phoenix	Base cream, hydrophobic DAC	182221	1
Phoenix	Anionic hydrophilic cream wi...	18248101	2
Phoenix	Anionic hydrophilic cream DAB	18297901	1
Phoenix	Anionic hydrophilic cream DAB	18297902	1
Phoenix	Anionic hydrophilic cream wi...	18320802	1
Phoenix	Anionic hydrophilic cream wi...	18320901	2
Phoenix	Anionic hydrophilic cream SR...	18A260514	1
Phoenix	Anionic hydrophilic cream DAB	19000624	1
Phoenix	Anionic hydrophilic cream SR...	19000647	1
Phoenix	Base cream, hydrophobic DAC	19002001	1
Phoenix	Base cream, hydrophobic DAC	19002002	2
Phoenix	Anionic hydrophilic cream DAB	19002197	1
Phoenix	Anionic hydrophilic cream DAB	19002550	1
Phoenix	Anionic hydrophilic cream DAB	19002801	1
Phoenix	Anionic hydrophilic cream DAB	19003975	1
Phoenix	Anionic hydrophilic cream DAB	19003980	1
Phoenix	Base cream, hydrophobic DAC	190207	1
Phoenix	Anionic hydrophilic cream wi...	19027501	1
Phoenix	Anionic hydrophilic cream wi...	19027601	1
Phoenix	Base cream, hydrophobic DAC	19058301	2
Phoenix	Base cream, hydrophobic DAC	190638	1
Phoenix	Base cream, hydrophobic DAC	190640	1
Phoenix	Anionic hydrophilic cream DAB	19072001	1
phoenix	Anionic hydrophilic cream DAB	19072301	1
Phoenix	Anionic hydrophilic cream DAB	19072701	1
phoenix	Anionic hydrophilic cream DAB	19072801	1
Phoenix	Anionic hydrophilic cream wi...	19093801	3
Phoenix	Base cream, hydrophobic DAC	19145601	1
Phoenix	Base cream, hydrophobic DAC	19145602	1
Phoenix	Anionic hydrophilic cream DAB	19161801	2
Phoenix	Anionic hydrophilic cream wi...	19192101	2
Phoenix	Anionic hydrophilic cream wi...	19192301	1
Phoenix	Anionic hydrophilic cream wi...	19268203	1
Phoenix	Anionic hydrophilic cream DAB	19272701	1
Phoenix	Anionic hydrophilic cream DAB	19273003	1
Phoenix	Anionic hydrophilic cream wi...	19B60312	1
Phoenix	Anionic hydrophilic cream DAB	20000031	1
Phoenix	Anionic hydrophilic cream DAB	20000037001	1
Phoenix	Anionic hydrophilic cream SR...	200000929001	1
Phoenix	Anionic hydrophilic cream wi...	20000193002	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Anionic hydrophilic cream DAB	20000313001	1
Phoenix	Anionic hydrophilic cream DAB	2000033001	1
Phoenix	Anionic hydrophilic cream SR...	20000522003	1
Phoenix	Base cream, diluted	20000701002	1
Phoenix	Anionic hydrophilic cream DAB	20000925001	1
Phoenix	Anionic hydrophilic cream DAB	20000928001	2
Phoenix	Hydrophilic cream, non-ionic...	20001016	1
Phoenix	Base cream, hydrophobic DAC	20001231	1
Phoenix	Anionic hydrophilic cream wi...	20001251001	1
Phoenix	Anionic hydrophilic cream DAB	20001471001	1
Phoenix	Anionic hydrophilic cream DAB	20001475001	1
Phoenix	Anionic hydrophilic cream SR...	20001781003	1
Phoenix	Anionic hydrophilic cream wi...	20001979001	1
Phoenix	Base cream, hydrophobic DAC	20002854002	1
Phoenix	Anionic hydrophilic cream DAB	20002945002	2
Phoenix	Hydrophilic cream, non-ionic...	20003016002	2
Phoenix	Base cream, hydrophobic DAC	20003530	1
Phoenix	Base cream, hydrophobic DAC	20003531	1
Phoenix	Hydrophilic cream, non-ionic...	200041301	1
Phoenix	Anionic hydrophilic cream wi...	20004293001	1
Phoenix	Anionic hydrophilic cream DAB	20004457002	1
Phoenix	Anionic hydrophilic cream DAB	20004458001	1
Phoenix	Anionic hydrophilic cream DAB	20004461001	1
Phoenix	Base cream, hydrophobic DAC	200320904	1
Phoenix	Anionic hydrophilic cream SR...	200351604	1
Phoenix	Anionic hydrophilic cream DAB	200400505	1
Phoenix	Anionic hydrophilic cream wi...	200431105	1
Phoenix	Hydrophilic cream, non-ionic...	200461405	1
Phoenix	Anionic hydrophilic cream wi...	200793107	1
Phoenix	Anionic hydrophilic cream DAB	21000291001	3
Phoenix	Anionic hydrophilic cream DAB	21001498001	1
Phoenix	Anionic hydrophilic cream DAB	21001500001	2
phoenix	Anionic hydrophilic cream wi...	21001943001	1
Phoenix	Anionic hydrophilic cream wi...	21001943001	2
Phoenix	Hydrophilic cream, non-ionic...	21002193004	1
Phoenix	Anionic hydrophilic cream DAB	21002634001	1
Phoenix	Anionic hydrophilic cream DAB	270705	1
Phoenix	Anionic hydrophilic cream DAB	286498	1
Phoenix	Hydrophilic cream, non-ionic...	300035	1
Phoenix	Base cream, hydrophobic DAC	3030	1
Phoenix	Anionic hydrophilic cream DAB	3043	1
Phoenix	Base cream, hydrophobic DAC	3050	1
Phoenix	Anionic hydrophilic cream DAB	3054	1
Phoenix	Anionic hydrophilic cream wi...	3057	1
Phoenix	Anionic hydrophilic cream DAB	3065	1
Phoenix	Hydrophilic cream, non-ionic...	3078	1
Phoenix	Base cream, hydrophobic DAC	3093	1
Phoenix	Anionic hydrophilic cream DAB	3096	1
Phoenix	Anionic hydrophilic cream DAB	3102	1
Phoenix	Anionic hydrophilic cream DAB	310270	1
Phoenix	Hydrophilic cream, non-ionic...	3103	1
Phoenix	Anionic hydrophilic cream DAB	311132	1
Phoenix	Base cream, hydrophobic DAC	3122	1
Phoenix	Anionic hydrophilic cream DAB	3191	1
Phoenix	Anionic hydrophilic cream DAB	3192	1
Phoenix	Anionic hydrophilic cream wi...	3193	1
Phoenix	Hydrophilic cream, non-ionic...	31A041120	1
Phoenix	Base cream, hydrophobic DAC	3222	1
Phoenix	Anionic hydrophilic cream DAB	3223	1
Phoenix	Wolff® base half-fat cream	3225	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Anionic hydrophilic cream wi…	3226	1
Phoenix	Anionic hydrophilic cream DAB	3358	1
Phoenix	Anionic hydrophilic cream wi…	3359	1
Phoenix	Anionic hydrophilic cream DAB	3375	1
Phoenix	Anionic hydrophilic cream DAB	3383	1
Phoenix	Anionic hydrophilic cream DAB	3384	1
Phoenix	Base cream, hydrophobic DAC	3394	1
Phoenix	Anionic hydrophilic cream DAB	3420	1
Phoenix	Wolff® base half-fat cream	3421	1
Phoenix	Wolff® base half-fat cream	434360	1
Phoenix	Wolff® base half-fat cream	511420	1
Phoenix	Wolff® base half-fat cream	602050	3
Phoenix	Wolff® base half-fat cream	610991	1
Phoenix	Hydrophilic cream, non-ionic…	6B150419	2
Phoenix	Wolff® base half-fat cream	702500	1
Phoenix	Wolff® base half-fat cream	810201	1
Phoenix	Wolff® base half-fat cream	901140	1
Phoenix	Wolff® base half-fat cream	908620	3
Phola	Base cream, hydrophobic DAC	181198	1
Phönix / Dr. August Wolff	Wolff® base half-fat cream	711240	1
Phönix / Dr. August Wolff	Wolff® base half-fat cream	807580	1
Phönix / Dr. August Wolff	Wolff® base half-fat cream	901930	1
Phönix / Dr. August Wolff	Wolff® base half-fat cream	904670	1
Phönix / Dr. August Wolff	Wolff® base half-fat cream	911220	2
Phönix / InfectoPharm	Base cream, hydrophobic DAC		1
Phönix /Dr.Wolff	Wolff® base half-fat cream	910460	1
Phönix 01.06.15	Base cream, hydrophobic DAC	15048701	2
Phönix Gotha	Hydrophilic cream, non-ionic…	10B200415	1
Phönix Gotha	Hydrophilic cream, non-ionic…	10B250618	1
Phönix Gotha	Hydrophilic cream, non-ionic…	122131	2
Phönix Gotha	Hydrophilic cream, non-ionic…	122841	4
Phönix Gotha	Hydrophilic cream, non-ionic…	123711	1
Phönix Gotha	Hydrophilic cream, non-ionic…	124511	5
Phönix Gotha	Hydrophilic cream, non-ionic…	125011	3
Phönix Gotha	Hydrophilic cream, non-ionic…	12B211015	1
Phönix Gotha	Hydrophilic cream, non-ionic…	13065	1
Phönix Gotha	Hydrophilic cream, non-ionic…	130651	3
Phönix Gotha	Hydrophilic cream, non-ionic…	131451	2
Phönix Gotha	Hydrophilic cream, non-ionic…	13227701	1
Phönix Gotha	Hydrophilic cream, non-ionic…	132331	2
Phönix Gotha	Hydrophilic cream, non-ionic…	133121	3
Phönix Gotha	Hydrophilic cream, non-ionic…	133911	2
Phönix Gotha	Hydrophilic cream, non-ionic…	134841	2
Phönix Gotha	Wolff® base half-fat cream	134990	1
Phönix Gotha	Hydrophilic cream, non-ionic…	140551	4
Phönix Gotha	Hydrophilic cream, non-ionic…	141521	2
Phönix Gotha	Hydrophilic cream, non-ionic…	142311	2
Phönix Gotha	Hydrophilic cream, non-ionic…	143011	3
Phönix Gotha	Hydrophilic cream, non-ionic…	144811	5
Phönix Gotha	Hydrophilic cream, non-ionic…	150341	1
Phönix Gotha	Hydrophilic cream, non-ionic…	150751	1
Phönix Gotha	Hydrophilic cream, non-ionic…	151711	2
Phönix Gotha	Hydrophilic cream, non-ionic…	153041	4
Phönix Gotha	Hydrophilic cream, non-ionic…	153621	1
Phönix Gotha	Hydrophilic cream, non-ionic…	15B141019	1
Phönix Gotha	Hydrophilic cream, non-ionic…	18005882	1
Phönix Gotha	Hydrophilic cream, non-ionic…	19002041	1
Phönix Gotha	Hydrophilic cream, non-ionic…	19005193	1
Phönix Gotha	Hydrophilic cream, non-ionic…	20B230913	2
Phönix Gotha	Hydrophilic cream, non-ionic…	20B260612	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix Gotha	Hydrophilic cream, non-ionic…	21B141014	1
Phönix Gotha	Anionic hydrophilic cream SR…	241111	1
Phönix Gotha	Hydrophilic cream, non-ionic…	25A270618	1
Phönix Gotha	Base cream, hydrophobic DAC	276087	2
Phönix Gotha	Base cream, hydrophobic DAC	277696	1
Phönix Gotha	Wolff® base half-fat cream	332040	2
Phönix Gotha	Hydrophilic cream, non-ionic…	4B070213	1
Phönix Gotha	Wolff® base half-fat cream	801140	2
Phönix Gotha	Wolff® base half-fat cream	807640	2
Phönix Gotha	Hydrophilic cream, non-ionic…	9B010719	1
Phönix WE: 22.09.17 EK…	Wolff® base half-fat cream	702500	1
Phönix, Caesar&Loretz G…	Anionic hydrophilic cream DAB	19162201	1
Phönix, Caesar&Loretz G…	Anionic hydrophilic cream DAB	20000403001	1
Phönix, Dr.Wolff,12.06…	Wolff® base half-fat cream	911220	1
Phönix/ Fargon	Base cream, hydrophobic DAC	17C06-T08-042287	1
Phönix/Apo-Ident	Anionic hydrophilic cream DAB	308403	1
Phönix/Dr.Wolff	Wolff® base half-fat cream	807640	1
Phönix/Dr.Wolff	Wolff® base half-fat cream	901920	2
Phönix/gepepharm	Anionic hydrophilic cream wi…	13244201	2
Phönix/Leyh Pharma	Hydrophilic cream, non-ionic…	142311	1
Phönix/Leyh Pharma	Hydrophilic cream, non-ionic…	182731	1
Phönix/Leyh Pharma	Hydrophilic cream, non-ionic…	191021	2
Phönix/Pharmachem	Base cream, hydrophobic DAC	181198	1
Phönix/Pharmachem	Base cream, hydrophobic DAC	182221	1
Phönix	Hydrophilic cream, non-ionic…		1
phönix	Anionic hydrophilic cream SR…	10a280317	1
PHÖNIX	Hydrophilic cream, non-ionic…	11A190721	1
Phönix	Anionic hydrophilic cream DAB	12314101	1
Phönix	Anionic hydrophilic cream DAB	1231451	1
Phönix	Hydrophilic cream, non-ionic…	124511	1
Phönix	Anionic hydrophilic cream DAB	13036001	1
Phönix	Anionic hydrophilic cream wi…	13072302	1
Phönix	Base cream, hydrophobic DAC	13085701	1
Phönix	Anionic hydrophilic cream DAB	13164901	1
Phönix	Anionic hydrophilic cream wi…	13172203	1
Phönix	Hydrophilic cream, non-ionic…	132331	1
Phönix	Anionic hydrophilic cream DAB	13265602	1
Phönix	Anionic hydrophilic cream DAB	13346301	1
Phönix	Base cream, hydrophobic DAC	13386402	2
Phönix	Base cream, hydrophobic DAC	14000701	1
Phönix	Base cream, hydrophobic DAC	14061501	1
Phönix	Base cream, hydrophobic DAC	14145301	1
Phönix	Anionic hydrophilic cream DAB	14233401	1
Phönix	Anionic hydrophilic cream DAB	14264301	1
Phönix	Wolff® base half-fat cream	143600	1
phönix	Anionic hydrophilic cream SR…	14a150517	1
phönix	Anionic hydrophilic cream DAB	15267401	1
phönix	Base cream, hydrophobic DAC	160136	1
phönix	Base cream, hydrophobic DAC	160825	1
Phönix	Anionic hydrophilic cream DAB	16103301	1
phönix	Anionic hydrophilic cream SR…	16158802	1
Phönix	Base cream, hydrophobic DAC	16165501	1
PHÖNIX	Base cream, hydrophobic DAC	16165701	1
Phönix	Base cream, hydrophobic DAC	16293901	1
Phönix	Anionic hydrophilic cream DAB	16328001	1
Phönix	Hydrophilic cream, non-ionic…	17000749	1
Phönix	Anionic hydrophilic cream DAB	17001305	1
Phönix	Hydrophilic cream, non-ionic…	17009701	1
Phönix	Anionic hydrophilic cream DAB	17143601	1
Phönix	Base cream, hydrophobic DAC	17192002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Anionic hydrophilic cream DAB	17200701	2
Phönix	Anionic hydrophilic cream DAB	17201801	1
Phönix	Anionic hydrophilic cream SR...	17202301	1
Phönix	Base cream, hydrophobic DAC	17255201	2
Phönix	Anionic hydrophilic cream DAB	17270001	1
Phönix	Anionic hydrophilic cream DAB	17299401	1
Phönix	Anionic hydrophilic cream DAB	17299801	1
Phönix	Anionic hydrophilic cream wi...	17335402	1
Phönix	Anionic hydrophilic cream wi...	17335701	1
Phönix	Anionic hydrophilic cream DAB	18001475	1
Phönix	Anionic hydrophilic cream DAB	18001560	1
Phönix	Hydrophilic cream, non-ionic...	18002062	1
Phönix	Hydrophilic cream, non-ionic...	18002064	1
Phönix	Anionic hydrophilic cream SR...	18003782	1
Phönix	Hydrophilic cream, non-ionic...	18004212	1
Phönix	Base cream, hydrophobic DAC	18005487	1
Phönix	Base cream, hydrophobic DAC	18005488	1
Phönix	Hydrophilic cream, non-ionic...	18005882	1
Phönix	Anionic hydrophilic cream DAB	18006025	1
Phönix	Anionic hydrophilic cream SR...	18006632	1
PHÖNIX	Transdermal base cream	1802650/2	2
Phönix	Base cream, hydrophobic DAC	180515	2
Phönix	Base cream, hydrophobic DAC	180517	2
Phönix	Base cream, hydrophobic DAC	180756	1
Phönix	Base cream, hydrophobic DAC	180757	1
Phönix	Anionic hydrophilic cream DAB	18116801	1
Phönix	Anionic hydrophilic cream DAB	18117201	1
Phonix	Anionic hydrophilic cream DAB	18168501	1
Phönix	Base cream, hydrophobic DAC	18173903	2
Phönix	Hydrophilic cream, non-ionic...	18175301	1
Phönix	Anionic hydrophilic cream DAB	18243402	2
Phönix	Anionic hydrophilic cream wi...	18297301	1
Phönix	Anionic hydrophilic cream DAB	18297902	1
Phönix	Anionic hydrophilic cream DAB	18298701	1
phönix	Anionic hydrophilic cream wi...	18320802	1
Phönix	Anionic hydrophilic cream SR...	18A140617	2
Phönix	Base cream, hydrophobic DAC	19000415003	1
Phönix	Anionic hydrophilic cream DAB	19000620	1
Phönix	Anionic hydrophilic cream DAB	19000624	1
Phönix	Hydrophilic cream, non-ionic...	19002041	1
Phönix	Anionic hydrophilic cream DAB	19003989	1
Phönix	Hydrophilic cream, non-ionic...	19005192	1
Phönix	Hydrophilic cream, non-ionic...	19006525	1
Phönix	Anionic hydrophilic cream DAB	19072001	1
Phönix	Anionic hydrophilic cream DAB	19072701	1
Phönix	Base cream, hydrophobic DAC	19115901	2
Phönix	Base cream, hydrophobic DAC	191488	1
Phönix	Anionic hydrophilic cream DAB	19161701	1
Phönix	Anionic hydrophilic cream wi...	19192001	1
Phönix	Base cream, hydrophobic DAC	1925691	1
Phönix	Hydrophilic cream, non-ionic...	1B090118	1
phönix	Base cream, hydrophobic DAC	2/AKD12	1
Phönix	Anionic hydrophilic cream wi...	20000192001	1
PHÖNIX	Anionic hydrophilic cream DAB	20000313001	1
Phönix	Anionic hydrophilic cream DAB	20000315001	1
Phönix	Anionic hydrophilic cream DAB	20000401001	1
Phönix	Base cream, hydrophobic DAC	20000425001	1
Phönix	Base cream, hydrophobic DAC	20000431	1
Phönix	Anionic hydrophilic cream SR...	20000522003	1
Phönix	Anionic hydrophilic cream DAB	20000927001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Anionic hydrophilic cream DAB	20001216	1
Phönix	Base cream, hydrophobic DAC	20001231	1
Phönix	Base cream, hydrophobic DAC	20001590001	1
PHÖNIX	Anionic hydrophilic cream DAB	20001675002	1
Phönix	Anionic hydrophilic cream wi...	2000193002	1
Phönix	Anionic hydrophilic cream SR...	20002423005	1
Phönix	Hydrophilic cream, non-ionic...	20002900	1
Phönix	Anionic hydrophilic cream DAB	20002945002	1
Phönix	Anionic hydrophilic cream DAB	20002947001	2
Phönix	Anionic hydrophilic cream DAB	20003309001	1
PHÖNIX	Base cream, hydrophobic DAC	20003445002	1
Phönix	Hydrophilic cream, non-ionic...	20003878	1
Phönix	Hydrophilic cream, non-ionic...	20003883	1
PHÖNIX	Anionic hydrophilic cream SR...	20005508	1
Phönix	Hydrophilic cream, non-ionic...	2003883	1
Phönix	Anionic hydrophilic cream DAB	21000290001	1
Phönix	Anionic hydrophilic cream DAB	21000373001	1
Phönix	Anionic hydrophilic cream DAB	21000376002	1
Phönix	Base cream, hydrophobic DAC	21000397003	1
Phönix	Base cream, diluted	21000785002	1
Phönix	Base cream, hydrophobic DAC	21001223001	1
Phönix	Base cream, diluted	21001314001	3
Phönix	Hydrophilic cream, non-ionic...	21001450	1
Phönix	Anionic hydrophilic cream DAB	21001813003	1
Phönix	Base cream, diluted	21001871001	2
Phönix	Base cream, diluted	21002418001	1
Phönix	Anionic hydrophilic cream DAB	21002640001	1
Phönix	Anionic hydrophilic cream SR...	21003004003	1
Phönix	Anionic hydrophilic cream DAB	2100376002	1
Phönix	Wolff® base half-fat cream	238560	1
Phönix	Hydrophilic cream, non-ionic...	26A120917	1
Phönix	Anionic hydrophilic cream DAB	270703	1
Phönix	Anionic hydrophilic cream DAB	276433	1
Phönix	Hydrophilic cream, non-ionic...	278025	1
Phönix	Anionic hydrophilic cream DAB	279056	1
Phönix	Anionic hydrophilic cream DAB	282005	2
Phönix	Anionic hydrophilic cream SR...	284083	1
Phönix	Anionic hydrophilic cream DAB	288572	1
Phönix	Hydrophilic cream, non-ionic...	304778	1
Phönix	Anionic hydrophilic cream SR...	305064	1
Phönix	Anionic hydrophilic cream SR...	305066	1
Phönix	Anionic hydrophilic cream SR...	305069	1
Phönix	Anionic hydrophilic cream DAB	305379	2
Phönix	Hydrophilic cream, non-ionic...	306128	1
Phönix	Hydrophilic cream, non-ionic...	309906	1
Phönix	Anionic hydrophilic cream DAB	3135	1
Phönix	Anionic hydrophilic cream wi...	3143	1
Phönix	Wolff® base half-fat cream	3145	1
Phönix	Anionic hydrophilic cream wi...	3152	1
Phönix	Wolff® base half-fat cream	3156	2
Phönix	Anionic hydrophilic cream wi...	3159	1
Phönix	Anionic hydrophilic cream wi...	3160	1
Phönix	Base cream, hydrophobic DAC	3163	1
Phönix	Base cream, hydrophobic DAC	3169	1
Phönix	Anionic hydrophilic cream DAB	3176	1
Phönix	Wolff® base half-fat cream	3183	1
Phönix	Wolff® base half-fat cream	333620	2
Phönix	Anionic hydrophilic cream SR...	36a140916	1
Phönix	Anionic hydrophilic cream SR...	38a111016	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
phönix	Anionic hydrophilic cream SR…	3a310117	1
Phönix	Hydrophilic cream, non-ionic…	3B300117	1
phönix	Anionic hydrophilic cream SR…	4a130217	1
PHÖNIX	Wolff® base half-fat cream	704050	4
Phönix	Wolff® base half-fat cream	7742	2
phönix	Anionic hydrophilic cream SR…	7a090216	1
Phönix	Wolff® base half-fat cream	901930	1
Phönix	Wolff® base half-fat cream	904880	1
Phönix	Wolff® base half-fat cream	909810	1
Phönix	Anionic hydrophilic cream SR…	Fiebig	1
Phönix20005128	Hydrophilic cream, non-ionic…	20005128	1
PKH / Phoenix	Anionic hydrophilic cream SR…	15A210415	1
pkh Gehe 28:06:18	Anionic hydrophilic cream SR…	16A300518	1
PKH GmbH / GEHE	Hydrophilic cream, non-ionic…	19B031120	1
PKH GmbH Halle / Gehe	Anionic hydrophilic cream SR…	30A140818	1
PKH GmbH/ Alliance Heal…	Hydrophilic cream, non-ionic…	18B291018	1
PKH GmbH/ NOWEDA	Hydrophilic cream, non-ionic…	10B200415	1
PKH GmbH/ Phönix	Anionic hydrophilic cream SR…	14A030413	1
PKH GmbH/Noweda	Hydrophilic cream, non-ionic…	7B030417	1
PKH GmbH	Hydrophilic cream, non-ionic…	12A160419	1
PKH GmbH	Hydrophilic cream, non-ionic…	12B1306161	1
PKH GmbH	Anionic hydrophilic cream SR…	17A030516	1
PKH GmbH	Hydrophilic cream, non-ionic…	18A100717	1
PKH GmbH	Hydrophilic cream, non-ionic…	21A110515	1
PKH GmbH	Hydrophilic cream, non-ionic…	21B141116	2
PKH GmbH	Anionic hydrophilic cream SR…	24A170919	1
PKH GmbH	Anionic hydrophilic cream SR…	2A030117	1
PKH GmbH	Hydrophilic cream, non-ionic…	36A261016	1
pkh gmbh	Skin care ointment W/L SR (w…	49b171014	1
PKH GmbH	Anionic hydrophilic cream SR…	7A280218	1
PKH GmbH	Hydrophilic cream, non-ionic…	7B030417	1
PKH Halle / Phoenix	Anionic hydrophilic cream SR…	16A240413	2
PKH Halle / Phoenix	Anionic hydrophilic cream SR…	17A200514	1
PKH Halle / Phoenix	Anionic hydrophilic cream SR…	40A091214	1
PKH Halle / Phoenix	Anionic hydrophilic cream SR…	5A170214	1
PKH Halle /Gehe	Anionic hydrophilic cream SR…	30A140818	1
PKH Halle/ Alliance H.	Hydrophilic cream, non-ionic…	33a240713	1
PKH Halle/ Alliance H.	Hydrophilic cream, non-ionic…	33A240713	2
PKH Halle/ Alliance Hea…	Hydrophilic cream, non-ionic…	12A160419	2
PKH Halle/ Alliance Hea…	Hydrophilic cream, non-ionic…	34B091018	2
PKH Halle/ Alliance Hea…	Hydrophilic cream, non-ionic…	4B120318	1
PKH Halle/AHD	Anionic hydrophlic cream wit…	4B220518	2
PKH Halle/Kehr	Hydrophilic cream, non-ionic…	12A160419	1
PKH Halle/Kehr	Hydrophilic cream, non-ionic…	20C310820	1
PKH Halle/Kehr	Anionic hydrophilic cream SR…	24A280616	1
PKH Halle/Kehr	Hydrophilic cream, non-ionic…	35B101218	1
PKH Halle/Kehr	Anionic hydrophilic cream SR…	9A170216	1
PKH Halle/Noweda	Hydrophilic cream, non-ionic…	20A280415	1
PKH Halle/Noweda	Hydrophilic cream, non-ionic…	20B310820	1
PKH Halle/Noweda	Hydrophilic cream, non-ionic…	7A110320	2
PKH Halle/PKH Halle	Anionic hydrophlic cream wit…	4B110319	2
PKH Halle/PKH Halle	Anionic hydrophlic cream wit…	9B141019	1
PKH Halle/Sanacorp	Hydrophilic cream, non-ionic…	8A030414	1
PKH Halle	Hydrophilic cream, non-ionic…	11A270319	1
PKH Halle	Hydrophilic cream, non-ionic…	11B310517	1
PKH Halle	Hydrophilic cream, non-ionic…	12A160419	2
PKH Halle	Anionic hydrophilic cream SR…	13A010415	1
PKH Halle	Anionic hydrophlic cream wit…	13B141216	1
PKH Halle	Hydrophilic cream, non-ionic…	14A050520	1
PKH Halle	Anionic hydrophilic cream SR…	14A130520	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
PKH Halle	Hydrophilic cream, non-ionic…	15A090620	1
PKH Halle	Hydrophilic cream, non-ionic…	15B080816	1
PKH Halle	Hydrophilic cream, non-ionic…	17A030518	1
PKH Halle	Hydrophilic cream, non-ionic…	1A020120	1
PKH Halle	Hydrophilic cream, non-ionic…	20A220719	1
PKH Halle	Anionic hydrophilic cream SR…	21A150920	2
PKH Halle	Hydrophilic cream, non-ionic…	25A070819	1
PKH Halle	Anionic hydrophilic cream SR…	25A110718	2
PKH Halle	Anionic hydrophilic cream SR…	25A240919	1
PKH Halle	Hydrophilic cream, non-ionic…	29B010818	1
PKH Halle	Anionic hydrophilic cream SR…	2A070120	1
PKH Halle	Hydrophilic cream, non-ionic…	2A100220	1
PKH Halle	Anionic hydrophlic cream wit…	2B060317	2
PKH Halle	Hydrophilic cream, non-ionic…	33A121119	1
PKH Halle	Hydrophilic cream, non-ionic…	4A030119	1
PKH Halle	Anionic hydrophilic cream SR…	4A160118	1
PKH Halle	Hydrophilic cream, non-ionic…	4A250118	1
PKH Halle	Anionic hydrophlic cream wit…	4B210316	1
PKH Halle	Anionic hydrophilic cream SR…	7A110319	1
PKH/Alliance	Skin care ointment W/L SR (w…	10B270219	1
PKH/Alliance	Skin care ointment W/L SR (w…	13B120418	1
PKH/Alliance	Skin care ointment W/L SR (w…	21B270519	1
PKH/Alliance	Skin care ointment W/L SR (w…	32B231020	1
PKH/Alliance	Skin care ointment W/L SR (w…	3B100119	1
PKH/Fargon/Jenne	Hydrophilic cream, non-ionic…	23A060819	1
PKH/Gehe	Anionic hydrophilic cream SR…	16A060416	1
PKH/Noweda	Hydrophilic cream, non-ionic…	27A220715	1
PKH/Sanacorp	Hydrophilic cream, non-ionic…	4B180220	1
PKH	Hydrophilic cream, non-ionic…	51A301215	1
Pönix/AMH	Anionic hydrophilic cream SR…	11A070313	1
Pößneck Pharma / Gehe	Base cream, hydrophobic DAC	162169	1
Pößneck/Gehe	Base cream, hydrophobic DAC	153626	1
Pößneck/Gehe	Base cream, hydrophobic DAC	170008	1
Pößneck/Gehe	Base cream, hydrophobic DAC	181197	2
Pößneeck Pharma / Gehe	Base cream, hydrophobic DAC	151258	1
Pößneeck Pharma / Gehe	Base cream, hydrophobic DAC	152210	2
PPL	Wolff® base half-fat cream	3542	3
PPL	Wolff® base half-fat cream	601880	1
PPL	Wolff® base half-fat cream	701451	1
PPL	Wolff® base half-fat cream	705760	7
PPL	Wolff® base half-fat cream	901140	3
Prößneck	Base cream, hydrophobic DAC	142154	2
Px/Phoenix	Anionic hydrophilic cream wi…	17335501	1
Raben-Apotheke Mildenau	Anionic hydrophilic cream SR…	11A010414	1
Raben-Apotheke Mildenau	Hydrophilic cream, non-ionic…	12B210514	1
Raben-Apotheke Mildenau	Base cream, hydrophobic DAC	14061501	4
Raben-Apotheke Mildenau	Hydrophilic cream, non-ionic…	18B020914	2
Raben-Apotheke Mildenau	Anionic hydrophilic cream SR…	19A030614	1
Raben-Apotheke Mildenau	Anionic hydrophilic cream DAB	283410	1
Raben-Apotheke Mildenau	Hydrophilic cream, non-ionic…	37A270514	1
Raben-Apotheke Mildenau	Hydrophilic cream, non-ionic…	4B100214	1
Rabenapotheke	Anionic hydrophilic cream DAB	290146	1
Rabenapotheke	Anionic hydrophilic cream SR…	39A011214	1
Reichelt	Hydrophilic cream, non-ionic…	229352	1
Rondell Apotheke	Anionic hydrophilic cream wi…	15273301	1
Röntgen	Anionic hydrophilic cream wi…	17029902	1
Röntgen	Anionic hydrophilic cream DAB	18001558	1
Röntgen	Anionic hydrophilic cream SR…	18003788	1
Röntgen	Anionic hydrophilic cream DAB	18004838	2
Röntgen	Anionic hydrophilic cream wi…	18041601	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Röntgen	Anionic hydrophilic cream wi...	18248301	2
Röntgen	Anionic hydrophilic cream SR...	19000651	1
Röntgen	Anionic hydrophilic cream SR...	19003576	1
Röntgen	Anionic hydrophilic cream wi...	19027601	1
Röntgen	Anionic hydrophilic cream wi...	19192301	2
Röntgen	Anionic hydrophilic cream DAB	20000026	1
Röntgen	Anionic hydrophilic cream SR...	200002226	1
Röntgen	Anionic hydrophilic cream SR...	20000724	1
Röntgen	Anionic hydrophilic cream DAB	20001212	1
Röntgen	Anionic hydrophilic cream wi...	20001978001	1
Röntgen	Anionic hydrophilic cream DAB	21001551	1
Röntgen	Anionic hydrophilic cream DAB	21004554	1
Röntgen	Anionic hydrophilic cream DAB	22001240	1
Röntgen	Anionic hydrophilic cream SR...	25A110718	1
Röntgen	Anionic hydrophilic cream SR...	36A051217	1
Sana 08.10.14 EK 5,76	Anionic hydrophilic cream DAB	14232901	1
Sana 11.02.15 EK 5,75	Anionic hydrophilic cream DAB	14294902	1
Sana 20.11.14 EK 5,76	Anionic hydrophilic cream DAB	14233101	1
Sana 23.03.16 Ek 5,73	Anionic hydrophilic cream DAB	15428401	1
Sana/ Bomb.	Hydrophilic cream, non-ionic...	20001015	1
Sana	Anionic hydrophilic cream DAB	18298101	1
Sana	Anionic hydrophilic cream DAB	18298901	1
Sana	Hydrophilic cream, non-ionic...	19003001	1
Sanac.	Anionic hydrophilic cream DAB	1916201	1
sanacorb	Base cream, hydrophobic DAC	180756	1
sanacorb	Base cream, hydrophobic DAC	190638	1
Sanacorp / Pharmachem	Base cream, hydrophobic DAC	153627	1
Sanacorp 06.01.20 9,95EUR	Anionic hydrophilic cream DAB	19161002	1
Sanacorp 11.07.14 EK 5,76	Anionic hydrophilic cream DAB	141118401	1
Sanacorp 19.12.14 EK 5,76	Anionic hydrophilic cream DAB	14285601	1
Sanacorp 21,01.16	Anionic hydrophilic cream DAB	15400901	1
Sanacorp 25.02.2014 Ek ...	Anionic hydrophilic cream DAB	13364201	2
Sanacorp 28.11 Ek.5,85	Anionic hydrophilic cream DAB	16180001	1
Sanacorp Ulm	Wolff® base half-fat cream	810800	1
Sanacorp W.E: 26.01.18 ...	Base cream, hydrophobic DAC	17150401	1
Sanacorp WE 23.02.17 -1...	Anionic hydrophilic cream wi...	16290501	1
Sanacorp WE 25.02.17 -1...	Base cream, hydrophobic DAC	16293701	1
Sanacorp, 16.03.17, 6,00EUR	Anionic hydrophilic cream DAB	16264501	1
sanacorp, 43,56EUR , 10.0...	Wolff® base half-fat cream	602050	4
sanacorp, 5,75EUR, 12.09....	Anionic hydrophilic cream wi...	16191601	2
Sanacorp,	Wolff® base half-fat cream	608180	2
SANACORP/ Dr August Wolff	Wolff® base half-fat cream	10550	1
SANACORP/ Dr August Wolff	Wolff® base half-fat cream	3542	1
SANACORP/ Dr August Wolff	Wolff® base half-fat cream	810201	1
SANACORP/ Dr August Wolff	Wolff® base half-fat cream	810800	2
SANACORP/ Dr August Wolff	Wolff® base half-fat cream	904880	2
SANACORP/ Dr August Wolff	Wolff® base half-fat cream	905120	1
SANACORP/ Dr August Wolff	Wolff® base half-fat cream	910460	1
SANACORP/ Dr August Wolff	Wolff® base half-fat cream	9140460	1
Sanacorp/ Noweda	Anionic hydrophilic cream wi...	18248101	2
Sanacorp/ Pharmachem GmbH	Base cream, hydrophobic DAC	180515	1
Sanacorp/ Pharmachem	Base cream, hydrophobic DAC	142155	1
Sanacorp/ Pharmachem	Base cream, hydrophobic DAC	231213	2
Sanacorp/ Pharmachem	Base cream, hydrophobic DAC	261112	2
Sanacorp/ Pharmachem	Base cream, hydrophobic DAC	90512	3
Sanacorp/	Wolff® base half-fat cream	10550	1
Sanacorp/Dr Wolf	Wolff® base half-fat cream	810800	1
Sanacorp/Dr. Wolf	Wolff® base half-fat cream	704050	2
Sanacorp/Dr.Wolff	Wolff® base half-fat cream	501082	1
Sanacorp/Leyh Pharma	Hydrophilic cream, non-ionic...	193721	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	171816	1
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	171817	1
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	172195	2
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	182221	1
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	190004531	1
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	19000732	1
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	190637	1
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	190639	3
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	191489	1
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	1925681	1
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	1925682	2
Sanacorp/Pharmachem	Base cream, hydrophobic DAC	20001232	1
Sanacorp/Wolff	Wolff® base half-fat cream	801140	4
Sanacorp/Wolff	Wolff® base half-fat cream	807640	2
Sanacorp	Anionic hydrophilic cream wi...		4
Sanacorp	Anionic hydrophilic cream DAB	104/AKD3	1
Sanacorp	Anionic hydrophilic cream DAB	104/AKD4	1
Sanacorp	Anionic hydrophilic cream DAB	106/AKD12	1
Sanacorp	Base cream, hydrophobic DAC	12151602	1
Sanacorp	Anionic hydrophilic cream DAB	12187901	4
Sanacorp	Anionic hydrophilic cream DAB	12218501	2
Sanacorp	Base cream, hydrophobic DAC	12229304	1
Sanacorp	Anionic hydrophilic cream DAB	12245701	1
Sanacorp	Anionic hydrophilic cream DAB	12264401	1
Sanacorp	Anionic hydrophilic cream DAB	12265301	1
Sanacorp	Base cream, hydrophobic DAC	12308102	2
Sanacorp	Anionic hydrophilic cream DAB	12314301	1
Sanacorp	Anionic hydrophilic cream DAB	12314401	1
Sanacorp	Base cream, hydrophobic DAC	13019303	1
Sanacorp	Base cream, hydrophobic DAC	13085701	1
Sanacorp	Anionic hydrophilic cream DAB	13154101	1
Sanacorp	Anionic hydrophilic cream DAB	13154301	1
Sanacorp	Anionic hydrophilic cream DAB	13167501	1
Sanacorp	Anionic hydrophilic cream DAB	13168001	1
Sanacorp	Anionic hydrophilic cream DAB	13168701	1
Sanacorp	Base cream, hydrophobic DAC	13175901	3
Sanacorp	Base cream, hydrophobic DAC	13175902	2
Sanacorp	Base cream, hydrophobic DAC	13275301	2
Sanacorp	Base cream, hydrophobic DAC	13275302	2
Sanacorp	Anionic hydrophilic cream DAB	13280201	1
Sanacorp	Anionic hydrophilic cream DAB	13313101	1
Sanacorp	Anionic hydrophilic cream DAB	13313201	1
Sanacorp	Base cream, hydrophobic DAC	140885	1
Sanacorp	Anionic hydrophilic cream DAB	14186702	1
Sanacorp	Anionic hydrophilic cream DAB	142/AKD52	1
Sanacorp	Anionic hydrophilic cream wi...	14214301	3
sanacorp	Anionic hydrophilic cream DAB	14233101	1
Sanacorp	Anionic hydrophilic cream DAB	14285601	1
Sanacorp	Anionic hydrophilic cream wi...	14334401	1
sanacorp	Anionic hydrophilic cream DAB	14341601	1
Sanacorp	Anionic hydrophilic cream DAB	15034401	1
Sanacorp	Hydrophilic cream, non-ionic...	15039001	1
Sanacorp	Anionic hydrophilic cream DAB	15199901	1
sanacorp	Anionic hydrophilic cream SR...	15319101	1
Sanacorp	Hydrophilic cream, non-ionic...	15325702	1
Sanacorp	Anionic hydrophilic cream DAB	15401201	1
Sanacorp	Base cream, hydrophobic DAC	15421201	3
Sanacorp	Hydrophilic cream, non-ionic...	16054101	1
Sanacorp	Anionic hydrophilic cream wi...	16067901	1
Sanacorp	Anionic hydrophilic cream DAB	16152701	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Base cream, hydrophobic DAC	16165501	1
Sanacorp	Anionic hydrophilic cream DAB	16258901	1
Sanacorp	Anionic hydrophilic cream DAB	16264501	1
Sanacorp	Anionic hydrophilic cream wi...	16264601	1
Sanacorp	Base cream, hydrophobic DAC	16293701	1
Sanacorp	Base cream, hydrophobic DAC	16330301	1
Sanacorp	Anionic hydrophilic cream SR...	17001708	6
Sanacorp	Anionic hydrophilic cream wi...	17030301	1
Sanacorp	Base cream, hydrophobic DAC	17073201	1
Sanacorp	Anionic hydrophilic cream DAB	17084201	1
Sanacorp	Anionic hydrophilic cream DAB	17143101	1
Sanacorp	Anionic hydrophilic cream DAB	17143201	1
Sanacorp	Anionic hydrophilic cream DAB	17143501	1
Sanacorp	Anionic hydrophilic cream DAB	17143601	1
Sanacorp	Base cream, hydrophobic DAC	171815	1
Sanacorp	Anionic hydrophilic cream DAB	17200703	2
Sanacorp	Anionic hydrophilic cream DAB	17201102	1
Sanacorp	Anionic hydrophilic cream DAB	17201301	1
Sanacorp	Anionic hydrophilic cream DAB	17201401	1
Sanacorp	Anionic hydrophilic cream DAB	17201801	1
Sanacorp	Anionic hydrophilic cream DAB	17202101	5
Sanacorp	Base cream, hydrophobic DAC	172194	2
Sanacorp	Base cream, hydrophobic DAC	17255201	1
Sanacorp	Hydrophilic cream, non-ionic...	17261001	1
Sanacorp	Anionic hydrophilic cream DAB	17270001	2
Sanacorp	Anionic hydrophilic cream DAB	17270102	1
Sanacorp	Anionic hydrophilic cream SR...	18001483	1
Sanacorp	Anionic hydrophilic cream SR...	18002227	2
Sanacorp	Anionic hydrophilic cream SR...	18005159	2
Sanacorp	Anionic hydrophilic cream DAB	18010801	1
Sanacorp	Anionic hydrophilic cream DAB	18011101	1
Sanacorp	Base cream, hydrophobic DAC	18051101	2
Sanacorp	Base cream, hydrophobic DAC	180515	1
Sanacorp	Base cream, hydrophobic DAC	180755	1
Sanacorp	Anionic hydrophilic cream DAB	18116801	1
Sanacorp	Anionic hydrophilic cream DAB	18117001	1
Sanacorp	Anionic hydrophilic cream DAB	18117201	1
Sanacorp	Base cream, hydrophobic DAC	181194	1
Sanacorp	Anionic hydrophilic cream DAB	18168501	1
Sanacorp	Anionic hydrophilic cream DAB	18169501	1
Sanacorp	Anionic hydrophilic cream DAB	18242901	1
Sanacorp	Anionic hydrophilic cream DAB	18298502	1
Sanacorp	Anionic hydrophilic cream DAB	19000621	1
Sanacorp	Anionic hydrophilic cream DAB	19002203	1
Sanacorp	Anionic hydrophilic cream SR...	19003576	1
Sanacorp	Anionic hydrophilic cream DAB	19003980	1
Sanacorp	Base cream, hydrophobic DAC	1900415001	1
Sanacorp	Hydrophilic cream, non-ionic...	19006525	1
Sanacorp	Anionic hydrophilic cream SR...	19021402	1
SANACORP	Hydrophilic cream, non-ionic...	19055602	1
Sanacorp	Base cream, hydrophobic DAC	19058301	2
Sanacorp	Anionic hydrophilic cream DAB	19072001	1
SANACORP	Anionic hydrophilic cream SR...	19093001	1
Sanacorp	Anionic hydrophilic cream DAB	19161201	3
Sanacorp	Anionic hydrophilic cream DAB	19161901	2
Sanacorp	Anionic hydrophilic cream DAB	19162001	1
Sanacorp	Anionic hydrophilic cream SR...	19177103	1
Sanacorp	Anionic hydrophilic cream DAB	19206201	2
Sanacorp	Anionic hydrophilic cream DAB	19206301	1
Sanacorp	Base cream, hydrophobic DAC	1925661	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Anionic hydrophilic cream wi…	19268202	2
Sanacorp	Anionic hydrophilic cream wi…	19268502	1
Sanacorp	Anionic hydrophilic cream DAB	19272505	1
Sanacorp	Anionic hydrophilic cream DAB	19272901	1
Sanacorp	Anionic hydrophilic cream DAB	20000027	1
Sanacorp	Anionic hydrophilic cream DAB	20000035	2
Sanacorp	Anionic hydrophilic cream DAB	20000314001	1
Sanacorp	Anionic hydrophilic cream DAB	2000092001	1
Sanacorp	Transdermal base cream	20001002	1
Sanacorp	Hydrophilic cream, non-ionic…	20001016	1
Sanacorp	Anionic hydrophilic cream DAB	20001214	1
Sanacorp	Anionic hydrophilic cream wi…	20001246001	2
Sanacorp	Base cream, hydrophobic DAC	20001593002	2
Sanacorp	Anionic hydrophilic cream DAB	20002081001	1
Sanacorp	Anionic hydrophilic cream DAB	20002531	1
Sanacorp	Anionic hydrophilic cream DAB	20002538	2
Sanacorp	Anionic hydrophilic cream DAB	20003265	1
Sanacorp	Anionic hydrophilic cream DAB	2004277	1
Sanacorp	Anionic hydrophilic cream wi…	21000682001	1
Sanacorp	Anionic hydrophilic cream DAB	21001505001	1
Sanacorp	Anionic hydrophilic cream wi…	21001942001	1
Sanacorp	Hydrophilic cream, non-ionic…	220713	4
Sanacorp	Wolff® base half-fat cream	235200	2
Sanacorp	Anionic hydrophilic cream wi…	24AKD1	1
Sanacorp	Anionic hydrophilic cream SR…	273693	1
Sanacorp	Anionic hydrophilic cream SR…	274376	1
Sanacorp	Anionic hydrophilic cream SR…	274505	1
Sanacorp	Anionic hydrophilic cream SR…	277566	1
Sanacorp	Anionic hydrophilic cream SR…	277569	1
Sanacorp	Anionic hydrophilic cream SR…	277637	2
Sanacorp	Anionic hydrophilic cream SR…	279202	1
Sanacorp	Skin care ointment W/L SR	27C220818	1
Sanacorp	Anionic hydrophilic cream SR…	281742	1
Sanacorp	Anionic hydrophilic cream SR…	281809	1
Sanacorp	Anionic hydrophilic cream SR…	283283	1
Sanacorp	Anionic hydrophilic cream SR…	283284	1
sanacorp	Anionic hydrophilic cream DAB	286501	1
Sanacorp	Anionic hydrophilic cream DAB	288573	1
sanacorp	Anionic hydrophilic cream DAB	288655	1
Sanacorp	Anionic hydrophilic cream SR…	290413	2
Sanacorp	Anionic hydrophilic cream SR…	290530	1
Sanacorp	Anionic hydrophilic cream SR…	295232	1
Sanacorp	Anionic hydrophilic cream DAB	297680	2
Sanacorp	Anionic hydrophilic cream SR…	300564	1
Sanacorp	Anionic hydrophilic cream SR…	306440	1
Sanacorp	Wolff® base half-fat cream	3542	8
Sanacorp	Anionic hydrophilic cream wi…	39/AKD4	1
Sanacorp	Skin care ointment W/L SR	39B191218	1
Sanacorp	Base cream, hydrophobic DAC	4/AKD3	1
Sanacorp	Anionic hydrophilic cream wi…	41/AKD6	1
Sanacorp	Anionic hydrophilic cream wi…	50/AKD12	1
Sanacorp	Wolff® base half-fat cream	609950	3
Sanacorp	Wolff® base half-fat cream	701080	1
Sanacorp	Wolff® base half-fat cream	702500	2
Sanacorp	Wolff® base half-fat cream	705760	2
Sanacorp	Wolff® base half-fat cream	707370	4
Sanacorp	Wolff® base half-fat cream	711250	11
Sanacorp	Wolff® base half-fat cream	801470	1
Sanacorp	Wolff® base half-fat cream	805720	13
Sanacorp	Wolff® base half-fat cream	810800	11

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Wolff® base half-fat cream	904880	3
Sanacorp	Hydrophilic cream, non-ionic...	9A240418	1
Sanacorp	Anionic hydrophilic cream DAB	AKD11	1
Sanacorp;21.04.15;9,31EUR	Anionic hydrophilic cream SR...	292977	1
SanacorpWE:01.12.2016 ...	Hydrophilic cream, non-ionic...	16222001	1
Sanacrop	Base cream, hydrophobic DAC	181198	1
Sanacrop	Base cream, hydrophobic DAC	19000415003	2
siehe Protokoll	Base cream, hydrophobic DAC	305080	1
Sonnen-Apotheke Wefensl...	Anionic hydrophlic cream wit...	1B080118	1
Sonnenapotheke	Wolff® base half-fat cream	810800	1
SONSTIGE	Wolff® base half-fat cream	910450	1
SONSTIGE	Wolff® base half-fat cream	910460	1
Spangro 09.05.2014	Anionic hydrophilic cream DAB	285599	1
Spangro 16.4.19	Anionic hydrophilic cream DAB	18004839	1
Spangro 22.01.2019	Anionic hydrophilic cream DAB	18003586	1
Spangro 26.04.2013	Anionic hydrophilic cream DAB	12314701	1
Spangro	Anionic hydrophilic cream DAB	18066701	2
Spangropharm	Anionic hydrophilic cream DAB	14138902	1
Spangropharm	Wolff® base half-fat cream	143650	1
Spangropharm	Anionic hydrophilic cream DAB	19162001	1
Spangropharm	Wolff® base half-fat cream	332040	1
Spirig/Anzag	Wolff® base half-fat cream	234791	1
Taoasis/Sanacorp	Anionic hydrophilic cream SR...	311127	2
Taoasis	Base cream, hydrophobic DAC	120214-2023	1
Taoasis	Base cream, hydrophobic DAC	120601-2137	1
Taoasis	Base cream, hydrophobic DAC	120719-2199	1
Taoasis	Base cream, hydrophobic DAC	121205-2276	1
Taoasis	Base cream, hydrophobic DAC	121205-2299	1
Taoasis	Base cream, hydrophobic DAC	130124-3021	1
Taoasis	Base cream, hydrophobic DAC	130312-3053	1
Taoasis	Base cream, hydrophobic DAC	130719-3198	1
Taoasis	Wolff® base half-fat cream	602050	1
Th. Geyer	Anionic hydrophilic cream DAB	18243402	1
THC Noweda	Anionic hydrophilic cream SR...	18005159	1
THC Rezeptur-Set	Anionic hydrophilic cream DAB	17084101	2
THC Rezeptur-Set	Anionic hydrophilic cream wi...	17102101	1
Tsiripidou	Hydrophilic cream, non-ionic...	17000748	1
VDL 05.05.14 Fa.Wolff	Wolff® base half-fat cream	339140	1
VDL 28.04.2014;Preis:45...	Wolff® base half-fat cream		1
vdl	Anionic hydrophilic cream wi...	12221002	1
VDL;02.12.14;5,32EUR	Anionic hydrophilic cream SR...	288310	1
VDL;2.7.14	Anionic hydrophilic cream DAB	14118401	1
VDL;2.7.14	Wolff® base half-fat cream	430880	3
WE: Sanacorp 18.10.2016...	Wolff® base half-fat cream	601880	1
WE:06.04.2016 Phönix ...	Base cream, hydrophobic DAC	15421201	1
WE:16.04.2016 Sanacor...	Anionic hydrophilic cream DAB	14342901	1
wepa/Sanaco	Anionic hydrophilic cream DAB	16103301	1
WEPA/WEPA	Wolff® base half-fat cream	LOTAP0046	2
Woff GmbH	Wolff® base half-fat cream	501080	1
Wolf/Phönix	Wolff® base half-fat cream	430880	2
Wolf	Wolff® base half-fat cream	511420	1
Wolff / AHD	Wolff® base half-fat cream	10680	4
Wolff / AHD	Wolff® base half-fat cream	141811	1
Wolff / AHD	Wolff® base half-fat cream	7742	4
Wolff / AHD	Wolff® base half-fat cream	810800	2
Wolff / AHD	Wolff® base half-fat cream	905120	7
Wolff / AHD	Wolff® base half-fat cream	910460	3
Wolff / Jenne	Wolff® base half-fat cream	909810	1
Wolff / Jenne	Wolff® base half-fat cream	9560	1
Wolff / Phönix	Wolff® base half-fat cream	10680	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Wolff / Phönix	Wolff® base half-fat cream	7742	2
Wolff / Phönix	Wolff® base half-fat cream	810800	2
Wolff / Phönix	Wolff® base half-fat cream	910460	1
Wolff Basis Creme	Wolff® base half-fat cream	602290	1
Wolff Basiscreme	Wolff® base half-fat cream	707370	1
Wolff GmbH / Noweda	Wolff® base half-fat cream	434360	3
Wolff GmbH / Noweda	Wolff® base half-fat cream	501470	1
wolff Gmbh/AHD 21.09.2015	Wolff® base half-fat cream	438340	1
Wolff GmbH/AHD	Wolff® base half-fat cream	905120	2
Wolff GmbH/Sanacorp	Wolff® base half-fat cream	339140	1
Wolff GmbH	Wolff® base half-fat cream	230870	1
Wolff GmbH	Wolff® base half-fat cream	238560	1
Wolff GmbH	Wolff® base half-fat cream	9560	1
Wolff vdl 09.01.15	Wolff® base half-fat cream	434360	2
Wolff,Gehe	Wolff® base half-fat cream		2
Wolff/ Anzag	Wolff® base half-fat cream	501470	1
Wolff/ Anzag	Wolff® base half-fat cream	807640	1
Wolff/ Gehe	Wolff® base half-fat cream	434360	1
Wolff/ Phoenix	Wolff® base half-fat cream	77420	1
Wolff/ Phönix	Wolff® base half-fat cream	430880	2
Wolff/ Sanacorp	Wolff® base half-fat cream	10550	2
Wolff/ Sanacorp	Wolff® base half-fat cream	10680	7
Wolff/ Sanacorp	Wolff® base half-fat cream	810201	2
Wolff/ Sanacorp	Wolff® base half-fat cream	901140	2
Wolff/ Sanacorp	Wolff® base half-fat cream	909810	1
Wolff/1	Wolff® base half-fat cream	501470	1
Wolff/4	Wolff® base half-fat cream	810800	1
Wolff/AEP	Wolff® base half-fat cream	805720	4
Wolff/AEP	Wolff® base half-fat cream	810800	4
Wolff/AEP	Wolff® base half-fat cream	905120	5
Wolff/AHCA	Wolff® base half-fat cream	702500	1
Wolff/AHCA	Wolff® base half-fat cream	707370	2
Wolff/AHD	Wolff® base half-fat cream	147400	1
Wolff/AHD	Anionic hydrophilic cream DAB	282107	1
Wolff/AHD	Wolff® base half-fat cream	331551	8
Wolff/AHD	Wolff® base half-fat cream	332040	5
Wolff/AHD	Wolff® base half-fat cream	510621	1
Wolff/AHD	Wolff® base half-fat cream	602050	3
Wolff/AHD	Wolff® base half-fat cream	701451	2
Wolff/AHD	Wolff® base half-fat cream	704050	1
Wolff/AHD	Wolff® base half-fat cream	711250	1
Wolff/AHD	Wolff® base half-fat cream	810800	1
Wolff/Alliance	Wolff® base half-fat cream	430880	1
Wolff/Alliance	Wolff® base half-fat cream	436750	1
Wolff/Alliance	Wolff® base half-fat cream	511420	1
Wolff/Alliance	Wolff® base half-fat cream	608180	2
Wolff/Anzag	Wolff® base half-fat cream	905120	2
Wolff/Fiebig	Wolff® base half-fat cream	143650	1
Wolff/Gehe 8.11.17	Wolff® base half-fat cream	702500-20180619Ma9	1
Wolff/Gehe 707370-20180...	Wolff® base half-fat cream	707370-20180830Ma9	1
Wolff/Gehe	Wolff® base half-fat cream		1
Wolff/Gehe	Wolff® base half-fat cream	10550	1
Wolff/Gehe	Wolff® base half-fat cream	236420	1
Wolff/Gehe	Wolff® base half-fat cream	609950-20171106Ma8	1
Wolff/Gehe	Wolff® base half-fat cream	609950-20171127Ma9	1
Wolff/Gehe	Wolff® base half-fat cream	705760	2
Wolff/Gehe	Wolff® base half-fat cream	705760-20171127Ma10	1
Wolff/Gehe	Wolff® base half-fat cream	711250-W20190115Ma12	1
Wolff/Gehe	Wolff® base half-fat cream	807580	3
Wolff/Gehe	Wolff® base half-fat cream	807640	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Wolff/Gehe	Wolff® base half-fat cream	901920	3
Wolff/Gehe	Wolff® base half-fat cream	904880	2
Wolff/Jenne	Wolff® base half-fat cream	705760	2
Wolff/Jenne	Wolff® base half-fat cream	801470	1
Wolff/Krieger	Wolff® base half-fat cream	705760	1
Wolff/Krieger	Wolff® base half-fat cream	810201	6
Wolff/Noweda	Wolff® base half-fat cream	10550	2
Wolff/Noweda	Wolff® base half-fat cream	432611	2
Wolff/Noweda	Wolff® base half-fat cream	511420	1
Wolff/Noweda	Wolff® base half-fat cream	6480	1
Wolff/Noweda	Wolff® base half-fat cream	702500	1
Wolff/Noweda	Wolff® base half-fat cream	801140	1
Wolff/Noweda	Wolff® base half-fat cream	901140	1
Wolff/Noweda	Wolff® base half-fat cream	901930	2
Wolff/Noweda	Wolff® base half-fat cream	908620	1
Wolff/Phoenix	Wolff® base half-fat cream	4715E-03719	1
Wolff/Phönix	Wolff® base half-fat cream	152600	1
Wolff/Phönix	Anionic hydrophilic cream DAB	16328101	1
Wolff/Phönix	Wolff® base half-fat cream	3542	1
Wolff/Phönix	Wolff® base half-fat cream	438160	1
Wolff/Phönix	Wolff® base half-fat cream	501470	1
Wolff/Phönix	Wolff® base half-fat cream	608180	5
Wolff/Phönix	Wolff® base half-fat cream	711240	1
Wolff/Phönix	Wolff® base half-fat cream	801140	1
Wolff/Phönix	Wolff® base half-fat cream	805720	4
Wolff/Phönix	Wolff® base half-fat cream	807580	1
Wolff/Phönix	Wolff® base half-fat cream	807640	9
Wolff/Phönix	Wolff® base half-fat cream	810800	1
Wolff/Phönix	Wolff® base half-fat cream	901920	3
Wolff/SAnac	Wolff® base half-fat cream	7742	1
Wolff/SAnac	Wolff® base half-fat cream	AP210311-04	1
Wolff/Sanacorp	Wolff® base half-fat cream	141811	1
Wolff/Sanacorp	Wolff® base half-fat cream	143650	2
Wolff/Sanacorp	Wolff® base half-fat cream	238560	1
Wolff/Sanacorp	Wolff® base half-fat cream	501470	1
Wolff/Sanacorp	Wolff® base half-fat cream	602050	3
Wolff/Sanacorp	Wolff® base half-fat cream	9560	1
Wolff/Spangro	Wolff® base half-fat cream	801140	1
wolff	Wolff® base half-fat cream	10550	1
Wolff	Wolff® base half-fat cream	10680	5
Wolff	Wolff® base half-fat cream	1110	1
Wolff	Wolff® base half-fat cream	141812	1
Wolff	Wolff® base half-fat cream	147400	2
Wolff	Wolff® base half-fat cream	238660	1
Wolff	Wolff® base half-fat cream	240249	1
Wolff	Wolff® base half-fat cream	333930	1
Wolff	Wolff® base half-fat cream	430880	1
wolff	Wolff® base half-fat cream	431050	1
wolff	Wolff® base half-fat cream	431240	1
Wolff	Wolff® base half-fat cream	431240	2
Wolff	Wolff® base half-fat cream	436750	3
Wolff	Wolff® base half-fat cream	501080	3
Wolff	Wolff® base half-fat cream	501870	2
Wolff	Wolff® base half-fat cream	506360	1
Wolff	Wolff® base half-fat cream	601880	1
Wolff	Wolff® base half-fat cream	602290	2
Wolff	Wolff® base half-fat cream	606050	3
wolff	Wolff® base half-fat cream	610991	1
Wolff	Wolff® base half-fat cream	6480	3
Wolff	Wolff® base half-fat cream	704050	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Wolff	Wolff® base half-fat cream	704220	1
Wolff	Wolff® base half-fat cream	707500	4
Wolff	Wolff® base half-fat cream	711240	2
Wolff	Wolff® base half-fat cream	7742	5
wolff	Wolff® base half-fat cream	801140	2
Wolff	Wolff® base half-fat cream	801140	3
Wolff	Wolff® base half-fat cream	901930	2
Wolff	Wolff® base half-fat cream	904670	2
Wolff	Wolff® base half-fat cream	904880	2
Wolff	Wolff® base half-fat cream	909810	4
Wolff	Wolff® base half-fat cream	911220	5
Wolff	Wolff® base half-fat cream	9560	1
WOLLF,DR.A.	Wolff® base half-fat cream	810800	1
Wollf/AHD	Wolff® base half-fat cream	909810	3
wollff/AHD	Wolff® base half-fat cream	431240	1
wollff/AHD	Wolff® base half-fat cream	605551	1

- 263 051 spectra from 1321 *Apo-Ident* customers from a total of 47 169 batches from a further 332 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Hydrophilic ointments* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Hydrophilic ointments* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	5990	0	62 509
Type B	0	18 496	0	92 585
Type C	0	34 210	197	262 906

The substance/substance group *Hydrophilic ointments* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.8998 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 99.9676 %)
Type C	100.0000 % (> 99.6957 %)	99.4274 % (> 99.4187 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Hydrophilic ointments* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Non-ionic hydrophil ointment	10.37	–
Lanette® ointment (conserved)	15.78	–
Glycolic acid 70%	22.51	–
Psorisol base cream Audor®	29.26	–
Base cream DAC	31.45	–
Hydrated liniment SR/DAC (NRF p.40)	33.28	–
Non-ionic hydrous liniment SR/DAC (NRF…	35.54	–
Gel Cordes®	40.36	–
Potash soap DAC	44.14	–
Lotio Cordes®	44.19	–
Sodium laureth sulfate solution 27%	44.49	–
Benzalkonium chloride solution 50%	50.22	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Hydrophilic ointments* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30631	30837	8.86	34.80
30758	31907	6.38	37.03
30769	30769	0.00	25.76
30837	30837	0.00	33.28
30880	31741	6.55	30.41
30895	32387	5.78	31.97
30931	31478	10.72	31.50
31002	31907	3.10	35.41
31008	31008	0.00	20.98
31039	31039	0.00	29.32
31040	31503	4.93	28.53
31042	32032	8.30	23.10
31054	31054	0.00	30.20
31086	30837	12.72	32.05
31188	31188	0.00	26.10
31231	31231	0.00	33.93
31241	31741	3.47	36.76
31440	31440	0.00	26.90
31450	32115	3.12	24.34
31470	32131	2.30	34.42

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31477	31188	3.33	24.93
31478	31478	0.00	28.41
31487	30837	19.05	31.37
31500	31500	0.00	27.98
31503	31503	0.00	30.92
31515	31515	0.00	38.85
31516	32387	11.72	34.32
31537	31537	0.00	32.70
31565	35617	6.00	29.17
31568	30769	4.88	25.74
31591	32124	5.27	24.75
31593	31996	3.60	26.26
31599	31188	2.62	25.85
31600	31039	7.19	30.44
31644	31799	3.33	36.69
31661	32126	6.98	30.75
31741	31741	0.00	33.27
31799	31799	0.00	36.45
31906	31906	0.00	34.13
31907	31907	0.00	34.97
31962	32029	10.70	33.70
31996	31996	0.00	26.51
32022	32022	0.00	28.74
32023	32023	0.00	28.94
32024	32024	0.00	30.03
32025	32025	0.00	30.10
32026	32026	0.00	29.14
32027	32027	0.00	30.02
32028	32028	0.00	28.73
32029	32029	0.00	30.24
32030	32030	0.00	30.24
32031	32031	0.00	28.87
32032	32032	0.00	29.39
32038	32038	0.00	30.28
32039	32039	0.00	21.05
32052	32052	0.00	28.27
32053	32053	0.00	28.33
32115	32115	0.00	24.30
32116	32116	0.00	24.25
32123	32123	0.00	26.51
32124	32124	0.00	25.90
32125	32125	0.00	25.13
32126	32126	0.00	26.48
32127	32127	0.00	25.40
32128	32128	0.00	25.32
32129	32129	0.00	35.95
32130	32130	0.00	25.72
32131	32131	0.00	34.97
32132	32132	0.00	29.91
32141	32141	0.00	34.92
32142	32142	0.00	20.21

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
32225	32225	0.00	24.94
32303	31799	2.26	34.42
32346	31008	5.32	21.53
32386	32386	0.00	25.57
32387	32387	0.00	26.99
32435	32435	0.00	26.83
32436	32436	0.00	28.67
32620	32620	0.00	40.89
32621	32621	0.00	25.20
32882	32882	0.00	40.43
33295	31503	5.53	27.72
33354	33354	0.00	35.84
33595	33595	0.00	36.81
33641	32053	10.16	30.99
33964	31799	8.81	38.90
34267	34267	0.00	35.71
34506	32115	2.53	26.28
34507	32115	2.00	26.15
34508	31996	4.27	27.17
34525	35617	4.62	25.79
34544	34544	0.00	33.14
34598	31907	3.87	34.67
34680	31039	7.47	30.49
34681	32115	1.48	24.25
34683	35617	3.34	26.06
34689	30837	12.05	31.58
34763	32032	6.90	26.80
34791	34791	0.00	18.99
34822	34822	0.00	35.01
34850	34850	0.00	37.74
35086	32032	7.85	23.12
35092	35092	0.00	40.53
35096	35096	0.00	28.23
35099	35099	0.00	41.44
35169	35169	0.00	40.78
35170	35170	0.00	42.62
35291	32029	12.63	33.61
35292	31799	11.34	35.05
35367	35367	0.00	40.37
35368	35368	0.00	39.85
35383	35383	0.00	34.72
35384	35384	0.00	34.11
35385	35385	0.00	32.82
35386	35386	0.00	34.41
35389	35389	0.00	34.76
35390	35390	0.00	32.72
35393	35393	0.00	33.34
35394	35394	0.00	32.69
35397	35397	0.00	33.43
35398	35398	0.00	35.16
35399	35399	0.00	32.65

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
35461	32032	6.06	24.60
35531	35531	0.00	30.67
35535	35535	0.00	30.59
35564	35564	0.00	30.69
35614	35614	0.00	27.47
35617	35617	0.00	27.19
35640	35640	0.00	36.56
36036	36036	0.00	29.43
36383	32225	2.30	25.20
36384	31907	9.23	30.98

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Hydroxyethyl salicylate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30638-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Hydroxyethyl salicylate; Hydroxyethylis salicylas

Special notes

When selecting the *Hydroxyethyl salicylate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Hydroxyethyl salicylate	6	3	13

Second-stage model

For differentiation of the substance/substance group *Hydroxyethyl salicylate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Hydroxyethyl salicylate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Hydroxyethyl sal...	12049001	30638	40	1402192
Caelo	Hydroxyethyl sal...	13285709	31339	40	20130918
Caelo	Hydroxyethyl sal...	191112	34651	40	20190606*
Caelo	Hydroxyethyl sal...	20003330	35719	50	20201203*
Caelo	Hydroxyethyl sal...	20003489	35721	50	20201203*
Caelo	Hydroxyethyl sal...	22001751	36506	40	20220719*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 260 spectra of 6 reference samples from the substance/substance group *Hydroxyethyl salicylate*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 239 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Hydroxyethyl salicylate*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Hydroxyethyl salicylate	16131002	32588	40
Caelo	Hydroxyethyl salicylate	16131009	33241	40
Caelo	Hydroxyethyl salicylate	172740	34226	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 19 spectra from 14 *Apo-Ident* customers from 13 batches from the substance/substance group *Hydroxyethyl salicylate*.
- Among them are spectra of independent samples from 13 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Hydroxyethyl salicylate	13285702	2
Caelo	Hydroxyethyl salicylate	15004301	1
Caelo	Hydroxyethyl salicylate	15414906	2
Caelo	Hydroxyethyl salicylate	16131002	1
Caelo	Hydroxyethyl salicylate	16131006	1
Caelo	Hydroxyethyl salicylate	16131011	1
Caelo	Hydroxyethyl salicylate	1727407	1
Caelo	Hydroxyethyl salicylate	19111202	2
Caelo	Hydroxyethyl salicylate	19111205	1
Caelo	Hydroxyethyl salicylate	2091302	1
Caesar & Loretz GmbH/Fi...	Hydroxyethyl salicylate	193088004	1
Caesar & Loretz GmbH	Hydroxyethyl salicylate	193088004	1
caleo	Hydroxyethyl salicylate	193088004	1
Fiebig	Hydroxyethyl salicylate	16131009	1
Fiebig	Hydroxyethyl salicylate	17274002	1
Phönix/CaesarLoretz	Hydroxyethyl salicylate	17274002	1

- 297 439 spectra from 1324 *Apo-Ident* customers from a total of 52 975 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Hydroxyethyl salicylate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Hydroxyethyl salicylate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

	False positive	True positive	False negative	True negative
Type A	0	260	0	68 239
Type B	0	120	0	111 193
Type C	0	19	0	297 439

The substance/substance group *Hydroxyethyl salicylate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.6923 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6879 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Hydroxyethyl salicylate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Phenoxyethanol	58.77	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Hydroxyethyl salicylate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30638	30638	0.00	73.05
31339	35721	5.73	66.10
34651	34651	0.00	67.16
35719	35719	0.00	69.78
35721	35721	0.00	71.47
36506	36506	0.00	66.98

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Isopropyl alcohol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30759-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Isopropyl alcohol; Alcohol isopropylicus

Special notes

When selecting the *Isopropyl alcohol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Isopropyl alcohol	6	3	1500

Second-stage model

For differentiation of the substance/substance group *Isopropyl alcohol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Isopropyl alcohol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
apomix	Isopropyl alcohol	4103112	31517	60	1505476
Caelo	Isopropyl alcohol	12321002	30759	40	20121102
Caelo	Isopropyl alcohol	13249425	31232	40	20130726
Caelo	Isopropyl alcohol	14051031	31386	40	20140214
Hedinger	Isopropyl alcohol	070835B	32817	40	20160712
Hedinger	Isopropyl alcohol	070922B	33256	40	20170307

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 260 spectra of 6 reference samples from the substance/substance group *Isopropyl alcohol*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 239 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Isopropyl alcohol*.

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Isopropyl alcohol	17300401	33938	40
Caelo	Isopropyl alcohol	20001912017	35090	40
Caelo	Isopropyl alcohol	20003673	35250	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 4701 spectra from 944 *Apo-Ident* customers from 1535 batches from the substance/substance group *Isopropyl alcohol*.
- Among them are spectra of independent samples from 1495 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Isopropyl alcohol	70603B	1
070879B	Isopropyl alcohol	70879B	1
17189301	Isopropyl alcohol	17300430	1
A. Hedinger / Kehr	Isopropyl alcohol	70614B	1
A. Hedinger / Kehr	Isopropyl alcohol	707158	1
A. Hedinger / Kehr	Isopropyl alcohol	708358	1
A. Hedinger / Noweda	Isopropyl alcohol	706598	2
A. Hedinger/Kehr	Isopropyl alcohol	709088	1
A.Hedinger / Kehr	Isopropyl alcohol	70659B	1
A.Hedinger/Sana	Isopropyl alcohol	701020B	1
AEP	Isopropyl alcohol	701054B	1
AH/Hedinger	Isopropyl alcohol	70889B	1
AHD /Hedinger	Isopropyl alcohol	70666B	1
AHD Hedinger 2.3.20 EK:...	Isopropyl alcohol	701173B	1
AHD/Fischar	Isopropyl alcohol		1
AHD/Hedinger	Isopropyl alcohol	701156B	1
AHD/Hedinger	Isopropyl alcohol	701173B	2
AHD/Hedinger	Isopropyl alcohol	70763B	1
AHD/Hedinger	Isopropyl alcohol	70994B	1
AHD	Isopropyl alcohol	192098001	1
AHD	Isopropyl alcohol	20001179012	1
AHD	Isopropyl alcohol	7011148	1
AHD	Isopropyl alcohol	70614B	1
AHD	Isopropyl alcohol	70643B	1
AHD	Isopropyl alcohol	70892B	1
AHD	Isopropyl alcohol	70898B	1
AHD	Isopropyl alcohol	70994B	1
AHD	Isopropyl alcohol	71145B	1
AHL	Isopropyl alcohol	70835B	1
AHL	Isopropyl alcohol	709558	1
Alkoholvertrieb Süd	Isopropyl alcohol		1
Alkoholvertrieb Süd	Isopropyl alcohol	Sorte702	1
Allianc. Health. / Hedi...	Isopropyl alcohol	70762B	1
Allianc. Healthc. / Hed...	Isopropyl alcohol	70730B	1
Allianc. Healthc. / Hed...	Isopropyl alcohol	70837B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Alliance / Hedinger	Isopropyl alcohol	7012128	1
Alliance Healthcare/Hed...	Isopropyl alcohol	701031B	1
Alliance Healthcare/Hed...	Isopropyl alcohol	70536B	1
Alliance Healthcare/Hed...	Isopropyl alcohol	70577B	1
Alliance Healthcare/Hed...	Isopropyl alcohol	70578B	1
Alliance Healthcare/Hed...	Isopropyl alcohol	70627B	1
Alliance Healthcare/Hed...	Isopropyl alcohol	70680B	1
Alliance Healthcare	Isopropyl alcohol	701065B	1
Alliance Healthcare	Isopropyl alcohol	701139B	1
Alliance Healthcare	Isopropyl alcohol	701158B	2
Alliance Healthcare	Isopropyl alcohol	701173B	2
Allianz Healthcare	Isopropyl alcohol	70896b	1
Angaz/Caesar & Loretz G...	Isopropyl alcohol	19059532	1
anzag / fischar	Isopropyl alcohol	1000031	1
Anzag 08.02.2013	Isopropyl alcohol	70500B	1
Anzag/Hedinger 07.05.20	Isopropyl alcohol	701201B	2
Anzag/Hedinger	Isopropyl alcohol	70495B	1
Anzag/Hedinger	Isopropyl alcohol	70562B	1
Anzag/Hedinger	Isopropyl alcohol	70592B	1
Anzag/Hedinger	Isopropyl alcohol	70835B	1
Anzag/Seeger	Isopropyl alcohol	70527B	1
Anzag	Isopropyl alcohol	14716	1
Anzag	Isopropyl alcohol	14717	1
Anzag	Isopropyl alcohol	190595625	2
Anzag	Isopropyl alcohol	701020B	1
Anzag	Isopropyl alcohol	701099B	1
Anzag	Isopropyl alcohol	701156B	1
Anzag	Isopropyl alcohol	70459B	1
Anzag	Isopropyl alcohol	70471B	1
Anzag	Isopropyl alcohol	70495B	1
Anzag	Isopropyl alcohol	70578B	2
Anzag	Isopropyl alcohol	7059B	1
Anzag	Isopropyl alcohol	70720B	1
Anzag	Isopropyl alcohol	70835B	1
Apot.Elisabeth Bartel	Isopropyl alcohol	701258B	1
Apoth. Elisabeth -Bartel	Isopropyl alcohol	701231B	1
Apoth.E.Bartel	Isopropyl alcohol	70545B	2
Audor Pharma	Isopropyl alcohol	70720B	2
Aug. Hedinger GmbH & Co...	Isopropyl alcohol	701201B	6
Aug. Hedinger GmbH & Co...	Isopropyl alcohol	701321B	1
Aug. Hedinger GmbH & Co...	Isopropyl alcohol	501114B	1
Aug. Hedinger GmbH & Co...	Isopropyl alcohol	701123B	1
Aug. Hedinger GmbH & Co...	Isopropyl alcohol	70671B	1
Aug. Hedinger GmbH & Co...	Isopropyl alcohol	70768B	1
Aug. Hedinger GmbH & Co...	Isopropyl alcohol	701201B	1
Aug. Hedinger GmbH/ Phö...	Isopropyl alcohol	701156B	1
Aug. Hedinger GmbH	Isopropyl alcohol	701105B	1
Aug. hedinger/N/PZN:074...	Isopropyl alcohol	70659B	1
AUG.HEDINGER GMBH	Isopropyl alcohol	70994B	1
Aug.Hedinger/Anzag	Isopropyl alcohol	7010318	1
Aug.Hedinger/Noweda	Isopropyl alcohol	7010718	1
Aug.Hedinger/Noweda	Isopropyl alcohol	70488B	1
August Hed./Sanacorp	Isopropyl alcohol	701031B	1
August Hedinger 1 l	Isopropyl alcohol	701231B	1
August Hedinger 1 l	Isopropyl alcohol	701258B	1
August Hedinger/Jenne	Isopropyl alcohol	701194B	3
August Hedinger/Jenne	Isopropyl alcohol	701204B	3
August Hedinger/Sanacorp	Isopropyl alcohol	701136B	1
August Hedinger/Sanacorp	Isopropyl alcohol	701203B	1
August Hedinger	Isopropyl alcohol	701011B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
August Hedinger	Isopropyl alcohol	70675B	1
August Hedinger	Isopropyl alcohol	70923B	1
Azur GmbH	Isopropyl alcohol	170126	1
Bahnhof-Apothek/Bahnhof...	Isopropyl alcohol	701052B	1
Bartel/Gehe	Isopropyl alcohol	70788B	2
BCD/Walter-CMP	Isopropyl alcohol	986640	1
Bergchemie	Isopropyl alcohol	14134711	1
Berkel AHK Berlin	Isopropyl alcohol	190220/IPA	2
Berkel AHK GmbH & Co.KG...	Isopropyl alcohol	7700T30260320	1
Berkel Ahk	Isopropyl alcohol	190220/IPA	1
Berkel AHK	Isopropyl alcohol	190220/IPA	1
Berkel AHK	Isopropyl alcohol	250320/IPA	1
Berkel AHK	Isopropyl alcohol	2710227	1
Berkel AHK	Isopropyl alcohol	2772128	1
Berkel AHK	Isopropyl alcohol	80420/IPA	1
Berkel	Isopropyl alcohol	7700T30240220	1
Berkel	Isopropyl alcohol	7700T30260320	1
Berkel-AHK	Isopropyl alcohol	30420/IPA	1
Besselmann Service	Isopropyl alcohol	900170854	1
Besselmann Service	Isopropyl alcohol	L20004671	1
Bombastus	Isopropyl alcohol	701107B	1
Bombastus	Isopropyl alcohol	70767B	1
Bombastus	Isopropyl alcohol	7474936	1
Cae	Isopropyl alcohol	18178229	1
Caelo	Isopropyl alcohol		6
Caelo	Isopropyl alcohol	10011502	1
Caelo	Isopropyl alcohol	10051302	1
Caelo	Isopropyl alcohol	10061507	1
Caelo	Isopropyl alcohol	1007031	1
Caelo	Isopropyl alcohol	10101403	1
Caelo	Isopropyl alcohol	10121304	1
Caelo	Isopropyl alcohol	1017410092	2
Caelo	Isopropyl alcohol	1071301	1
Caelo	Isopropyl alcohol	108073	1
Caelo	Isopropyl alcohol	1100317	1
Caelo	Isopropyl alcohol	11091401	1
Caelo	Isopropyl alcohol	11311602	1
Caelo	Isopropyl alcohol	11371204	1
Caelo	Isopropyl alcohol	11371212	1
Caelo	Isopropyl alcohol	11371217	1
Caelo	Isopropyl alcohol	12031106	1
Caelo	Isopropyl alcohol	12041402	1
Caelo	Isopropyl alcohol	12081505	1
Caelo	Isopropyl alcohol	12091305	1
Caelo	Isopropyl alcohol	12112204	1
Caelo	Isopropyl alcohol	12112206	1
Caelo	Isopropyl alcohol	12112209	1
Caelo	Isopropyl alcohol	12112220	1
Caelo	Isopropyl alcohol	12112224	3
Caelo	Isopropyl alcohol	12179307	3
Caelo	Isopropyl alcohol	12179310	1
Caelo	Isopropyl alcohol	12179311	1
Caelo	Isopropyl alcohol	12179316	1
Caelo	Isopropyl alcohol	12179317	2
Caelo	Isopropyl alcohol	12179321	1
Caelo	Isopropyl alcohol	12179326	1
Caelo	Isopropyl alcohol	12179328	1
Caelo	Isopropyl alcohol	12254702	1
Caelo	Isopropyl alcohol	12254703	1
Caelo	Isopropyl alcohol	12254708	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	12254708/129	1
Caelo	Isopropyl alcohol	12254709	2
Caelo	Isopropyl alcohol	12254714	1
Caelo	Isopropyl alcohol	12254719	1
Caelo	Isopropyl alcohol	12254722	1
Caelo	Isopropyl alcohol	12254724	1
Caelo	Isopropyl alcohol	12254727	2
Caelo	Isopropyl alcohol	12254729	1
Caelo	Isopropyl alcohol	1231012	1
Caelo	Isopropyl alcohol	12321008	2
Caelo	Isopropyl alcohol	12321012	1
Caelo	Isopropyl alcohol	12321016	1
Caelo	Isopropyl alcohol	12321020	1
Caelo	Isopropyl alcohol	12321022	1
Caelo	Isopropyl alcohol	12321023	1
Caelo	Isopropyl alcohol	12321030	2
Caelo	Isopropyl alcohol	12321031	1
Caelo	Isopropyl alcohol	12321032	1
Caelo	Isopropyl alcohol	12379501	1
Caelo	Isopropyl alcohol	12379502	2
Caelo	Isopropyl alcohol	12379504	1
Caelo	Isopropyl alcohol	12379506	1
Caelo	Isopropyl alcohol	12379508	2
Caelo	Isopropyl alcohol	12379510	3
Caelo	Isopropyl alcohol	12379515	2
Caelo	Isopropyl alcohol	12379517	1
Caelo	Isopropyl alcohol	12379518	2
Caelo	Isopropyl alcohol	12379520	2
Caelo	Isopropyl alcohol	12379521	2
Caelo	Isopropyl alcohol	12379522	1
Caelo	Isopropyl alcohol	12379525	2
Caelo	Isopropyl alcohol	12379526	3
Caelo	Isopropyl alcohol	125651	1
Caelo	Isopropyl alcohol	13011808	1
Caelo	Isopropyl alcohol	13021409	1
Caelo	Isopropyl alcohol	1305019	1
Caelo	Isopropyl alcohol	13050901	1
Caelo	Isopropyl alcohol	13050902	1
Caelo	Isopropyl alcohol	13050904	1
Caelo	Isopropyl alcohol	13050907	1
Caelo	Isopropyl alcohol	13050911	1
Caelo	Isopropyl alcohol	13050913	2
Caelo	Isopropyl alcohol	13050914	2
Caelo	Isopropyl alcohol	13050916	3
Caelo	Isopropyl alcohol	13050917	2
Caelo	Isopropyl alcohol	13050920	1
Caelo	Isopropyl alcohol	13050922	1
Caelo	Isopropyl alcohol	13050925	2
Caelo	Isopropyl alcohol	13050927	1
Caelo	Isopropyl alcohol	13050928	1
Caelo	Isopropyl alcohol	13050929	1
Caelo	Isopropyl alcohol	13071304	1
Caelo	Isopropyl alcohol	13091802	1
Caelo	Isopropyl alcohol	131/AKD1	1
Caelo	Isopropyl alcohol	13101801	1
Caelo	Isopropyl alcohol	13121401	1
Caelo	Isopropyl alcohol	13148001	2
Caelo	Isopropyl alcohol	13148003	1
Caelo	Isopropyl alcohol	13148004	1
Caelo	Isopropyl alcohol	13148006	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	13148012	1
Caelo	Isopropyl alcohol	13148015	3
Caelo	Isopropyl alcohol	13148019	3
Caelo	Isopropyl alcohol	13148021	1
Caelo	Isopropyl alcohol	13148024	1
Caelo	Isopropyl alcohol	13148028	1
Caelo	Isopropyl alcohol	13148029	1
Caelo	Isopropyl alcohol	132/AKD54	1
Caelo	Isopropyl alcohol	132494	1
Caelo	Isopropyl alcohol	13249401	1
Caelo	Isopropyl alcohol	13249403	1
Caelo	Isopropyl alcohol	13249404	1
Caelo	Isopropyl alcohol	13249405	1
Caelo	Isopropyl alcohol	13249406	1
Caelo	Isopropyl alcohol	13249407	1
Caelo	Isopropyl alcohol	13249412	2
Caelo	Isopropyl alcohol	13249413	2
Caelo	Isopropyl alcohol	13249414	2
Caelo	Isopropyl alcohol	13249415	2
Caelo	Isopropyl alcohol	13249416	1
Caelo	Isopropyl alcohol	13249418	1
Caelo	Isopropyl alcohol	13249420	1
Caelo	Isopropyl alcohol	13249423	1
Caelo	Isopropyl alcohol	13249424	1
Caelo	Isopropyl alcohol	13249427	1
Caelo	Isopropyl alcohol	13249429	2
Caelo	Isopropyl alcohol	13249430	1
Caelo	Isopropyl alcohol	13249432	1
Caelo	Isopropyl alcohol	13249434	1
Caelo	Isopropyl alcohol	13249435	3
Caelo	Isopropyl alcohol	13249437	1
Caelo	Isopropyl alcohol	1329421	1
Caelo	Isopropyl alcohol	1329423	1
Caelo	Isopropyl alcohol	13336911	1
Caelo	Isopropyl alcohol	13336912	2
Caelo	Isopropyl alcohol	13336913	1
Caelo	Isopropyl alcohol	13336914	1
Caelo	Isopropyl alcohol	13336915	1
Caelo	Isopropyl alcohol	13336916	1
Caelo	Isopropyl alcohol	13336921	1
Caelo	Isopropyl alcohol	13336922	1
Caelo	Isopropyl alcohol	13336924	1
Caelo	Isopropyl alcohol	13336927	1
Caelo	Isopropyl alcohol	13336930	1
Caelo	Isopropyl alcohol	13336931	1
Caelo	Isopropyl alcohol	13336933	1
Caelo	Isopropyl alcohol	13336934	1
Caelo	Isopropyl alcohol	13336936	1
Caelo	Isopropyl alcohol	13336938	3
Caelo	Isopropyl alcohol	13336939	2
Caelo	Isopropyl alcohol	13336941	2
Caelo	Isopropyl alcohol	13336942	1
Caelo	Isopropyl alcohol	13336943	2
Caelo	Isopropyl alcohol	13336944	1
Caelo	Isopropyl alcohol	13336945	1
Caelo	Isopropyl alcohol	13397303	2
Caelo	Isopropyl alcohol	13397304	2
Caelo	Isopropyl alcohol	13397305	1
Caelo	Isopropyl alcohol	13397311	1
Caelo	Isopropyl alcohol	13397312	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	13397316	2
Caelo	Isopropyl alcohol	13397317	1
Caelo	Isopropyl alcohol	13397318	2
Caelo	Isopropyl alcohol	13397323	1
Caelo	Isopropyl alcohol	13397326	3
Caelo	Isopropyl alcohol	13397327	2
Caelo	Isopropyl alcohol	13397330	6
Caelo	Isopropyl alcohol	13397332	3
Caelo	Isopropyl alcohol	13407304	1
Caelo	Isopropyl alcohol	14031501	1
Caelo	Isopropyl alcohol	14031701	1
Caelo	Isopropyl alcohol	14051002	2
Caelo	Isopropyl alcohol	14051004	1
Caelo	Isopropyl alcohol	14051009	2
Caelo	Isopropyl alcohol	14051012	3
Caelo	Isopropyl alcohol	14051013	1
Caelo	Isopropyl alcohol	14051015	1
Caelo	Isopropyl alcohol	14051016	1
Caelo	Isopropyl alcohol	14051017	3
Caelo	Isopropyl alcohol	14051018	1
Caelo	Isopropyl alcohol	14051019	1
Caelo	Isopropyl alcohol	14051021	1
Caelo	Isopropyl alcohol	14051022	1
Caelo	Isopropyl alcohol	14051026	1
Caelo	Isopropyl alcohol	140510265	1
Caelo	Isopropyl alcohol	14051028	1
Caelo	Isopropyl alcohol	14051031	3
Caelo	Isopropyl alcohol	14051036	1
Caelo	Isopropyl alcohol	141/AKD16	1
Caelo	Isopropyl alcohol	14134701	1
Caelo	Isopropyl alcohol	14134705	2
Caelo	Isopropyl alcohol	14134706	1
Caelo	Isopropyl alcohol	14134708	1
Caelo	Isopropyl alcohol	14134710	1
Caelo	Isopropyl alcohol	14134712	1
Caelo	Isopropyl alcohol	14134716	3
Caelo	Isopropyl alcohol	14134719	1
Caelo	Isopropyl alcohol	14134720	2
Caelo	Isopropyl alcohol	14134721	1
Caelo	Isopropyl alcohol	14134724	1
Caelo	Isopropyl alcohol	14219202	1
Caelo	Isopropyl alcohol	14219204	2
Caelo	Isopropyl alcohol	14219205	1
Caelo	Isopropyl alcohol	14219206	2
Caelo	Isopropyl alcohol	14219209	1
Caelo	Isopropyl alcohol	14219211	1
Caelo	Isopropyl alcohol	14219212	2
Caelo	Isopropyl alcohol	14219213	3
Caelo	Isopropyl alcohol	14219214	3
Caelo	Isopropyl alcohol	14219215	2
Caelo	Isopropyl alcohol	14219216	1
Caelo	Isopropyl alcohol	14219218	1
Caelo	Isopropyl alcohol	14219220	2
Caelo	Isopropyl alcohol	14219222	3
Caelo	Isopropyl alcohol	14219224	1
Caelo	Isopropyl alcohol	14219227	3
Caelo	Isopropyl alcohol	14219228	2
Caelo	Isopropyl alcohol	14219229	1
Caelo	Isopropyl alcohol	14219233	1
Caelo	Isopropyl alcohol	14278901	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	14278902	2
Caelo	Isopropyl alcohol	14278903	1
Caelo	Isopropyl alcohol	14278904	4
Caelo	Isopropyl alcohol	14278905	2
Caelo	Isopropyl alcohol	14278907	1
Caelo	Isopropyl alcohol	14278909	1
Caelo	Isopropyl alcohol	14278911	2
Caelo	Isopropyl alcohol	14278914	1
Caelo	Isopropyl alcohol	14278921	1
Caelo	Isopropyl alcohol	14278923	4
Caelo	Isopropyl alcohol	14278925	2
Caelo	Isopropyl alcohol	14278926	4
Caelo	Isopropyl alcohol	14278927	2
Caelo	Isopropyl alcohol	14278929	1
Caelo	Isopropyl alcohol	14369301	5
Caelo	Isopropyl alcohol	14369302	5
Caelo	Isopropyl alcohol	14369303	1
Caelo	Isopropyl alcohol	14369304	1
Caelo	Isopropyl alcohol	14369306	1
Caelo	Isopropyl alcohol	14369307	3
Caelo	Isopropyl alcohol	14369310	1
Caelo	Isopropyl alcohol	14369311	1
Caelo	Isopropyl alcohol	14369312	2
Caelo	Isopropyl alcohol	14369313	4
Caelo	Isopropyl alcohol	14369316	2
Caelo	Isopropyl alcohol	14369317	2
Caelo	Isopropyl alcohol	14369319	1
Caelo	Isopropyl alcohol	14369325	1
Caelo	Isopropyl alcohol	14369326	3
Caelo	Isopropyl alcohol	14369329	1
Caelo	Isopropyl alcohol	14369333	1
Caelo	Isopropyl alcohol	14369334	1
Caelo	Isopropyl alcohol	14369337	1
Caelo	Isopropyl alcohol	14369370	1
Caelo	Isopropyl alcohol	1469323	1
Caelo	Isopropyl alcohol	15031801	1
Caelo	Isopropyl alcohol	15057501	2
Caelo	Isopropyl alcohol	15057502	1
Caelo	Isopropyl alcohol	15057503	1
Caelo	Isopropyl alcohol	15057505	2
Caelo	Isopropyl alcohol	15057506	1
Caelo	Isopropyl alcohol	15057507	2
Caelo	Isopropyl alcohol	15057508	1
Caelo	Isopropyl alcohol	15057510	1
Caelo	Isopropyl alcohol	15057511	2
Caelo	Isopropyl alcohol	15057513	1
Caelo	Isopropyl alcohol	15057514	1
Caelo	Isopropyl alcohol	15057515	1
Caelo	Isopropyl alcohol	15057517	1
Caelo	Isopropyl alcohol	15057518	1
Caelo	Isopropyl alcohol	15057519	1
Caelo	Isopropyl alcohol	15057520	2
Caelo	Isopropyl alcohol	15057524	2
Caelo	Isopropyl alcohol	15057525	1
Caelo	Isopropyl alcohol	15057526	1
Caelo	Isopropyl alcohol	15057528	2
Caelo	Isopropyl alcohol	15057531	1
Caelo	Isopropyl alcohol	151(17189323)	1
Caelo	Isopropyl alcohol	15111401	1
Caelo	Isopropyl alcohol	15111740	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	15171301	1
Caelo	Isopropyl alcohol	15171303	6
Caelo	Isopropyl alcohol	15171304	2
Caelo	Isopropyl alcohol	15171305	1
Caelo	Isopropyl alcohol	15171306	1
Caelo	Isopropyl alcohol	15171307	1
Caelo	Isopropyl alcohol	15171308	1
Caelo	Isopropyl alcohol	15171311	2
Caelo	Isopropyl alcohol	15171312	2
Caelo	Isopropyl alcohol	15171314	2
Caelo	Isopropyl alcohol	15171315	1
Caelo	Isopropyl alcohol	15171326	1
Caelo	Isopropyl alcohol	15171327	1
Caelo	Isopropyl alcohol	15171328	2
Caelo	Isopropyl alcohol	15171329	2
Caelo	Isopropyl alcohol	15171331	1
Caelo	Isopropyl alcohol	15171332	1
Caelo	Isopropyl alcohol	15171333	4
Caelo	Isopropyl alcohol	15171335	1
Caelo	Isopropyl alcohol	15171337	1
Caelo	Isopropyl alcohol	15171340	1
Caelo	Isopropyl alcohol	15171341	3
Caelo	Isopropyl alcohol	15171342	2
Caelo	Isopropyl alcohol	1517308	1
Caelo	Isopropyl alcohol	152(18065412)	1
Caelo	Isopropyl alcohol	153(18291713)	1
Caelo	Isopropyl alcohol	15300902	4
Caelo	Isopropyl alcohol	15300903	2
Caelo	Isopropyl alcohol	15300904	2
Caelo	Isopropyl alcohol	15300910	1
Caelo	Isopropyl alcohol	15300912	1
Caelo	Isopropyl alcohol	15300913	1
Caelo	Isopropyl alcohol	15300915	1
Caelo	Isopropyl alcohol	15300917	1
Caelo	Isopropyl alcohol	15300918	1
Caelo	Isopropyl alcohol	15300921	1
Caelo	Isopropyl alcohol	15300923	1
Caelo	Isopropyl alcohol	15300925	1
Caelo	Isopropyl alcohol	15300926	1
Caelo	Isopropyl alcohol	15300927	2
Caelo	Isopropyl alcohol	15300929	1
Caelo	Isopropyl alcohol	15300930	1
Caelo	Isopropyl alcohol	15300931	2
Caelo	Isopropyl alcohol	15300932	1
Caelo	Isopropyl alcohol	15398802	1
Caelo	Isopropyl alcohol	15398803	2
Caelo	Isopropyl alcohol	15398804	3
Caelo	Isopropyl alcohol	15398806	3
Caelo	Isopropyl alcohol	15398808	2
Caelo	Isopropyl alcohol	15398810	1
Caelo	Isopropyl alcohol	15398811	1
Caelo	Isopropyl alcohol	15398812	1
Caelo	Isopropyl alcohol	15398813	1
Caelo	Isopropyl alcohol	15398814	3
Caelo	Isopropyl alcohol	15398816	4
Caelo	Isopropyl alcohol	15398819	1
Caelo	Isopropyl alcohol	15398820	3
Caelo	Isopropyl alcohol	15398823	3
Caelo	Isopropyl alcohol	15398826	2
Caelo	Isopropyl alcohol	15398827	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	15398828	1
Caelo	Isopropyl alcohol	15398831	3
Caelo	Isopropyl alcohol	15498831	1
Caelo	Isopropyl alcohol	1557015	1
Caelo	Isopropyl alcohol	16/255/i	1
Caelo	Isopropyl alcohol	16011406	1
Caelo	Isopropyl alcohol	16039901	5
Caelo	Isopropyl alcohol	16039902	1
Caelo	Isopropyl alcohol	16039903	1
Caelo	Isopropyl alcohol	16039904	3
Caelo	Isopropyl alcohol	16039905	2
Caelo	Isopropyl alcohol	16039906	2
Caelo	Isopropyl alcohol	16039907	2
Caelo	Isopropyl alcohol	16039909	1
Caelo	Isopropyl alcohol	16039911	2
Caelo	Isopropyl alcohol	16039912	3
Caelo	Isopropyl alcohol	16039913	1
Caelo	Isopropyl alcohol	16039915	1
Caelo	Isopropyl alcohol	16039919	1
Caelo	Isopropyl alcohol	16039921	1
Caelo	Isopropyl alcohol	16039922	2
Caelo	Isopropyl alcohol	16039923	3
Caelo	Isopropyl alcohol	16039924	1
Caelo	Isopropyl alcohol	16039925	3
Caelo	Isopropyl alcohol	16039926	2
Caelo	Isopropyl alcohol	16039930	1
Caelo	Isopropyl alcohol	16039931	1
Caelo	Isopropyl alcohol	16039932	1
Caelo	Isopropyl alcohol	16039935	1
Caelo	Isopropyl alcohol	16039936	2
Caelo	Isopropyl alcohol	1603997	1
Caelo	Isopropyl alcohol	16061804	1
Caelo	Isopropyl alcohol	16081810	1
Caelo	Isopropyl alcohol	16137301	4
Caelo	Isopropyl alcohol	16137302	4
Caelo	Isopropyl alcohol	16137303	2
Caelo	Isopropyl alcohol	16137304	3
Caelo	Isopropyl alcohol	16137305	4
Caelo	Isopropyl alcohol	16137307	1
Caelo	Isopropyl alcohol	16137308	3
Caelo	Isopropyl alcohol	16137311	1
Caelo	Isopropyl alcohol	16137312	2
Caelo	Isopropyl alcohol	16137317	2
Caelo	Isopropyl alcohol	16137318	1
Caelo	Isopropyl alcohol	16137322	3
Caelo	Isopropyl alcohol	16137323	2
Caelo	Isopropyl alcohol	16137325	2
Caelo	Isopropyl alcohol	16137325/161123AI	1
Caelo	Isopropyl alcohol	16137326	1
Caelo	Isopropyl alcohol	16137327	3
Caelo	Isopropyl alcohol	16137328	1
Caelo	Isopropyl alcohol	16137329	3
Caelo	Isopropyl alcohol	16137330	1
Caelo	Isopropyl alcohol	16137332	2
Caelo	Isopropyl alcohol	16137333	1
Caelo	Isopropyl alcohol	16137334	1
Caelo	Isopropyl alcohol	16137336	4
Caelo	Isopropyl alcohol	162334019	1
Caelo	Isopropyl alcohol	16234001	5
Caelo	Isopropyl alcohol	16234002	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	16234003	1
Caelo	Isopropyl alcohol	16234004	5
Caelo	Isopropyl alcohol	16234005	2
Caelo	Isopropyl alcohol	16234007	2
Caelo	Isopropyl alcohol	16234008	1
Caelo	Isopropyl alcohol	16234009	1
Caelo	Isopropyl alcohol	16234010	4
Caelo	Isopropyl alcohol	16234011	1
Caelo	Isopropyl alcohol	16234013	1
Caelo	Isopropyl alcohol	16234014	2
Caelo	Isopropyl alcohol	16234017	3
Caelo	Isopropyl alcohol	16234018	1
Caelo	Isopropyl alcohol	16234019	2
Caelo	Isopropyl alcohol	16234020	2
Caelo	Isopropyl alcohol	16234021	1
Caelo	Isopropyl alcohol	16234023	1
Caelo	Isopropyl alcohol	16234025	3
Caelo	Isopropyl alcohol	16234026	2
Caelo	Isopropyl alcohol	16234029	1
Caelo	Isopropyl alcohol	16234031	2
Caelo	Isopropyl alcohol	16234032	1
Caelo	Isopropyl alcohol	16234033	2
Caelo	Isopropyl alcohol	1630606	1
Caelo	Isopropyl alcohol	1630607	1
Caelo	Isopropyl alcohol	16310601	1
Caelo	Isopropyl alcohol	16310602	3
Caelo	Isopropyl alcohol	16310603	3
Caelo	Isopropyl alcohol	16310604	1
Caelo	Isopropyl alcohol	16310605	2
Caelo	Isopropyl alcohol	16310606	2
Caelo	Isopropyl alcohol	16310607	3
Caelo	Isopropyl alcohol	16310609	2
Caelo	Isopropyl alcohol	16310610	3
Caelo	Isopropyl alcohol	16310611	1
Caelo	Isopropyl alcohol	16310612	3
Caelo	Isopropyl alcohol	16310613	1
Caelo	Isopropyl alcohol	16310614	2
Caelo	Isopropyl alcohol	16310621	1
Caelo	Isopropyl alcohol	16310622	4
Caelo	Isopropyl alcohol	16310623	2
Caelo	Isopropyl alcohol	16310625	1
Caelo	Isopropyl alcohol	16310626	1
Caelo	Isopropyl alcohol	16310628	1
Caelo	Isopropyl alcohol	16310629	3
Caelo	Isopropyl alcohol	16310632	3
Caelo	Isopropyl alcohol	16310633	5
Caelo	Isopropyl alcohol	16310634	1
Caelo	Isopropyl alcohol	163234002	1
Caelo	Isopropyl alcohol	17044001	1
Caelo	Isopropyl alcohol	170440015277	1
Caelo	Isopropyl alcohol	17044002	2
Caelo	Isopropyl alcohol	17044003	1
Caelo	Isopropyl alcohol	17044006	2
Caelo	Isopropyl alcohol	17044007	1
Caelo	Isopropyl alcohol	17044008	2
Caelo	Isopropyl alcohol	17044009	1
Caelo	Isopropyl alcohol	17044011	2
Caelo	Isopropyl alcohol	17044013	3
Caelo	Isopropyl alcohol	17044015	1
Caelo	Isopropyl alcohol	17044016	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	17044017	1
Caelo	Isopropyl alcohol	17044019	3
Caelo	Isopropyl alcohol	17044020	2
Caelo	Isopropyl alcohol	17044022	2
Caelo	Isopropyl alcohol	17044023	1
Caelo	Isopropyl alcohol	17044025	1
Caelo	Isopropyl alcohol	17044027	2
Caelo	Isopropyl alcohol	17044028	4
Caelo	Isopropyl alcohol	17044029	2
Caelo	Isopropyl alcohol	17044030	5
Caelo	Isopropyl alcohol	17044031	3
Caelo	Isopropyl alcohol	17044032	1
Caelo	Isopropyl alcohol	17044033	2
Caelo	Isopropyl alcohol	17044034	1
Caelo	Isopropyl alcohol	17044035	2
Caelo	Isopropyl alcohol	17051802	1
Caelo	Isopropyl alcohol	17061706	1
Caelo	Isopropyl alcohol	17189301	4
Caelo	Isopropyl alcohol	17189302	5
Caelo	Isopropyl alcohol	17189303	2
Caelo	Isopropyl alcohol	17189304	1
Caelo	Isopropyl alcohol	171893045391	1
Caelo	Isopropyl alcohol	17189305	3
Caelo	Isopropyl alcohol	17189306	1
Caelo	Isopropyl alcohol	17189307	2
Caelo	Isopropyl alcohol	17189308	1
Caelo	Isopropyl alcohol	17189309	2
Caelo	Isopropyl alcohol	17189310	1
Caelo	Isopropyl alcohol	17189312	1
Caelo	Isopropyl alcohol	17189313	2
Caelo	Isopropyl alcohol	17189316	2
Caelo	Isopropyl alcohol	17189317	3
Caelo	Isopropyl alcohol	17189319	9
Caelo	Isopropyl alcohol	17189320	4
Caelo	Isopropyl alcohol	17189321	2
Caelo	Isopropyl alcohol	17189322	1
Caelo	Isopropyl alcohol	17189323	1
Caelo	Isopropyl alcohol	17189324	5
Caelo	Isopropyl alcohol	17189325	1
Caelo	Isopropyl alcohol	17189326	1
Caelo	Isopropyl alcohol	17189329	1
Caelo	Isopropyl alcohol	17189330	9
Caelo	Isopropyl alcohol	17189332	2
Caelo	Isopropyl alcohol	17189333	3
Caelo	Isopropyl alcohol	17189334	2
Caelo	Isopropyl alcohol	17189336	3
Caelo	Isopropyl alcohol	17300401	7
Caelo	Isopropyl alcohol	17300402	1
Caelo	Isopropyl alcohol	17300403	1
Caelo	Isopropyl alcohol	17300404	1
Caelo	Isopropyl alcohol	17300405	2
Caelo	Isopropyl alcohol	17300406	3
Caelo	Isopropyl alcohol	17300408	2
Caelo	Isopropyl alcohol	17300409	1
Caelo	Isopropyl alcohol	17300412	5
Caelo	Isopropyl alcohol	17300413	5
Caelo	Isopropyl alcohol	17300414	2
Caelo	Isopropyl alcohol	17300415	1
Caelo	Isopropyl alcohol	17300416	2
Caelo	Isopropyl alcohol	17300417	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	17300418	4
Caelo	Isopropyl alcohol	17300420	1
Caelo	Isopropyl alcohol	17300422	2
Caelo	Isopropyl alcohol	17300423	2
Caelo	Isopropyl alcohol	17300424	2
Caelo	Isopropyl alcohol	17300425	1
Caelo	Isopropyl alcohol	17300426	1
Caelo	Isopropyl alcohol	17300428	2
Caelo	Isopropyl alcohol	17300429	6
Caelo	Isopropyl alcohol	17300430	1
Caelo	Isopropyl alcohol	17300431	3
Caelo	Isopropyl alcohol	17300432	1
Caelo	Isopropyl alcohol	17300433	1
Caelo	Isopropyl alcohol	17300434	1
Caelo	Isopropyl alcohol	17300436	3
Caelo	Isopropyl alcohol	17300437	5
Caelo	Isopropyl alcohol	1789304	1
Caelo	Isopropyl alcohol	180109AI/17189332	1
Caelo	Isopropyl alcohol	18041306	1
Caelo	Isopropyl alcohol	18065401	4
Caelo	Isopropyl alcohol	18065402	4
Caelo	Isopropyl alcohol	180654025691	1
Caelo	Isopropyl alcohol	18065403	5
Caelo	Isopropyl alcohol	180654035690	1
Caelo	Isopropyl alcohol	18065404	2
Caelo	Isopropyl alcohol	18065405	2
Caelo	Isopropyl alcohol	18065406	3
Caelo	Isopropyl alcohol	18065408	1
Caelo	Isopropyl alcohol	18065412	5
Caelo	Isopropyl alcohol	18065413	3
Caelo	Isopropyl alcohol	18065414	2
Caelo	Isopropyl alcohol	18065415	4
Caelo	Isopropyl alcohol	18065416	1
Caelo	Isopropyl alcohol	18065417	1
Caelo	Isopropyl alcohol	18065418	1
Caelo	Isopropyl alcohol	18065419	5
Caelo	Isopropyl alcohol	18065420	3
Caelo	Isopropyl alcohol	18065422	1
Caelo	Isopropyl alcohol	18065423	1
Caelo	Isopropyl alcohol	18065425	3
Caelo	Isopropyl alcohol	18065427	1
Caelo	Isopropyl alcohol	18065429	1
Caelo	Isopropyl alcohol	18065430	4
Caelo	Isopropyl alcohol	18065432	2
Caelo	Isopropyl alcohol	18178201	2
Caelo	Isopropyl alcohol	18178202	3
Caelo	Isopropyl alcohol	18178203	5
Caelo	Isopropyl alcohol	18178204	2
Caelo	Isopropyl alcohol	18178207	1
Caelo	Isopropyl alcohol	18178209	2
Caelo	Isopropyl alcohol	18178210	2
Caelo	Isopropyl alcohol	18178212	1
Caelo	Isopropyl alcohol	18178215	1
Caelo	Isopropyl alcohol	18178216	1
Caelo	Isopropyl alcohol	18178217	7
Caelo	Isopropyl alcohol	18178220	1
Caelo	Isopropyl alcohol	18178223	3
Caelo	Isopropyl alcohol	18178224	3
Caelo	Isopropyl alcohol	18178225	3
Caelo	Isopropyl alcohol	18178226	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	18178229	3
Caelo	Isopropyl alcohol	18178230	3
Caelo	Isopropyl alcohol	18178231	1
Caelo	Isopropyl alcohol	18178232	3
Caelo	Isopropyl alcohol	18178233	1
Caelo	Isopropyl alcohol	18178234	6
Caelo	Isopropyl alcohol	18178235	2
Caelo	Isopropyl alcohol	18178236	1
Caelo	Isopropyl alcohol	18178237	3
Caelo	Isopropyl alcohol	18178238	3
Caelo	Isopropyl alcohol	18178239	1
Caelo	Isopropyl alcohol	18178240	2
Caelo	Isopropyl alcohol	18178270	1
Caelo	Isopropyl alcohol	181788225	1
Caelo	Isopropyl alcohol	18291701	2
Caelo	Isopropyl alcohol	18291702	2
Caelo	Isopropyl alcohol	18291703	3
Caelo	Isopropyl alcohol	18291704	1
Caelo	Isopropyl alcohol	18291705	3
Caelo	Isopropyl alcohol	18291707	8
Caelo	Isopropyl alcohol	18291708	2
Caelo	Isopropyl alcohol	18291710	2
Caelo	Isopropyl alcohol	18291712	1
Caelo	Isopropyl alcohol	18291717	2
Caelo	Isopropyl alcohol	18291718	1
Caelo	Isopropyl alcohol	18291719	4
Caelo	Isopropyl alcohol	18291721	2
Caelo	Isopropyl alcohol	18291722	3
Caelo	Isopropyl alcohol	18291723	2
Caelo	Isopropyl alcohol	18291724	1
Caelo	Isopropyl alcohol	18291725	4
Caelo	Isopropyl alcohol	18291726	1
Caelo	Isopropyl alcohol	18291728	1
Caelo	Isopropyl alcohol	18291732	1
Caelo	Isopropyl alcohol	18291733	2
Caelo	Isopropyl alcohol	18291736	3
Caelo	Isopropyl alcohol	18291737	1
Caelo	Isopropyl alcohol	1865430	1
Caelo	Isopropyl alcohol	19021807	1
Caelo	Isopropyl alcohol	19051405	1
Caelo	Isopropyl alcohol	19051503	1
Caelo	Isopropyl alcohol	19059501	2
Caelo	Isopropyl alcohol	19059502	4
Caelo	Isopropyl alcohol	19059503	2
Caelo	Isopropyl alcohol	19059504	2
Caelo	Isopropyl alcohol	19059505	1
Caelo	Isopropyl alcohol	19059506	4
Caelo	Isopropyl alcohol	19059507	1
Caelo	Isopropyl alcohol	19059508	3
Caelo	Isopropyl alcohol	19059511	8
Caelo	Isopropyl alcohol	19059512	2
Caelo	Isopropyl alcohol	19059513	5
Caelo	Isopropyl alcohol	19059514	1
Caelo	Isopropyl alcohol	19059516	1
Caelo	Isopropyl alcohol	19059518	2
Caelo	Isopropyl alcohol	19059519	1
Caelo	Isopropyl alcohol	19059520	2
Caelo	Isopropyl alcohol	19059525	3
Caelo	Isopropyl alcohol	19059526	3
Caelo	Isopropyl alcohol	19059527	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	19059528	1
Caelo	Isopropyl alcohol	19059529	3
Caelo	Isopropyl alcohol	19059531	7
Caelo	Isopropyl alcohol	19059532	1
Caelo	Isopropyl alcohol	19101702	1
Caelo	Isopropyl alcohol	19121805	1
Caelo	Isopropyl alcohol	19121806	1
Caelo	Isopropyl alcohol	192/9814	1
Caelo	Isopropyl alcohol	1920812	1
Caelo	Isopropyl alcohol	192098001	2
Caelo	Isopropyl alcohol	192098002	6
Caelo	Isopropyl alcohol	192098004	1
Caelo	Isopropyl alcohol	192098005	1
Caelo	Isopropyl alcohol	192098006	1
Caelo	Isopropyl alcohol	192098007	2
Caelo	Isopropyl alcohol	192098008	1
Caelo	Isopropyl alcohol	19209801	4
Caelo	Isopropyl alcohol	192098010	2
Caelo	Isopropyl alcohol	192098011	3
Caelo	Isopropyl alcohol	19209802	1
Caelo	Isopropyl alcohol	19209804	1
Caelo	Isopropyl alcohol	19209805	5
Caelo	Isopropyl alcohol	19209806	1
Caelo	Isopropyl alcohol	19209807	1
Caelo	Isopropyl alcohol	19209808	2
Caelo	Isopropyl alcohol	19209809	1
Caelo	Isopropyl alcohol	19209811	2
Caelo	Isopropyl alcohol	19209812	7
Caelo	Isopropyl alcohol	19209813	4
Caelo	Isopropyl alcohol	19209814	2
Caelo	Isopropyl alcohol	19209815	2
Caelo	Isopropyl alcohol	19209816	1
Caelo	Isopropyl alcohol	19209819	3
Caelo	Isopropyl alcohol	19209820	1
Caelo	Isopropyl alcohol	19209821	1
Caelo	Isopropyl alcohol	19209823	3
Caelo	Isopropyl alcohol	19209824	2
Caelo	Isopropyl alcohol	19209827	6
Caelo	Isopropyl alcohol	192198010	1
Caelo	Isopropyl alcohol	1925590047	1
Caelo	Isopropyl alcohol	200001557011	1
Caelo	Isopropyl alcohol	20000450009	2
Caelo	Isopropyl alcohol	20000450012	10
Caelo	Isopropyl alcohol	20000450021	1
Caelo	Isopropyl alcohol	20000450023	1
Caelo	Isopropyl alcohol	20000450025	1
Caelo	Isopropyl alcohol	2000045009	1
Caelo	Isopropyl alcohol	20001179002	1
Caelo	Isopropyl alcohol	20001179004	1
Caelo	Isopropyl alcohol	20001179006	3
Caelo	Isopropyl alcohol	20001179008	1
Caelo	Isopropyl alcohol	20001179011	5
Caelo	Isopropyl alcohol	20001179012	1
Caelo	Isopropyl alcohol	20001179015	2
Caelo	Isopropyl alcohol	20001179016	2
Caelo	Isopropyl alcohol	20001179017	1
Caelo	Isopropyl alcohol	20001179018	1
Caelo	Isopropyl alcohol	20001179019	3
Caelo	Isopropyl alcohol	20001179020	4
Caelo	Isopropyl alcohol	20001179022	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	20001179025	1
Caelo	Isopropyl alcohol	20001179026	2
Caelo	Isopropyl alcohol	20001179028	2
Caelo	Isopropyl alcohol	20001179029	3
Caelo	Isopropyl alcohol	20001179031	1
Caelo	Isopropyl alcohol	20001557003	3
Caelo	Isopropyl alcohol	20001557005	2
Caelo	Isopropyl alcohol	20001557006	2
Caelo	Isopropyl alcohol	20001557007	2
Caelo	Isopropyl alcohol	20001557009	2
Caelo	Isopropyl alcohol	20001557011	3
Caelo	Isopropyl alcohol	20001557013	1
Caelo	Isopropyl alcohol	20001557015	1
Caelo	Isopropyl alcohol	20001557017	2
Caelo	Isopropyl alcohol	20001557020	1
Caelo	Isopropyl alcohol	20001557021	1
Caelo	Isopropyl alcohol	20001557022	1
Caelo	Isopropyl alcohol	20001557023	1
Caelo	Isopropyl alcohol	20001557025	1
Caelo	Isopropyl alcohol	20001557026	3
Caelo	Isopropyl alcohol	20001557027	1
Caelo	Isopropyl alcohol	20001557030	1
Caelo	Isopropyl alcohol	2000179029	1
Caelo	Isopropyl alcohol	200019112018	1
Caelo	Isopropyl alcohol	20001912001	1
Caelo	Isopropyl alcohol	20001912002	5
Caelo	Isopropyl alcohol	20001912003	1
Caelo	Isopropyl alcohol	20001912004	1
Caelo	Isopropyl alcohol	20001912005	2
Caelo	Isopropyl alcohol	20001912006	2
Caelo	Isopropyl alcohol	20001912007	2
Caelo	Isopropyl alcohol	20001912010	1
Caelo	Isopropyl alcohol	20001912014	3
Caelo	Isopropyl alcohol	20001912016	1
Caelo	Isopropyl alcohol	20001912017	3
Caelo	Isopropyl alcohol	20001912018	4
Caelo	Isopropyl alcohol	20001912019	2
Caelo	Isopropyl alcohol	20001912020	1
Caelo	Isopropyl alcohol	20001912021	1
Caelo	Isopropyl alcohol	20001912022	1
Caelo	Isopropyl alcohol	20001912023	3
Caelo	Isopropyl alcohol	20001912024	3
Caelo	Isopropyl alcohol	20001912028	1
Caelo	Isopropyl alcohol	20001912029	1
Caelo	Isopropyl alcohol	20001912031	2
Caelo	Isopropyl alcohol	20001912032	1
Caelo	Isopropyl alcohol	20001912034	4
Caelo	Isopropyl alcohol	20001912035	3
Caelo	Isopropyl alcohol	20001912036	1
Caelo	Isopropyl alcohol	20001912039	2
Caelo	Isopropyl alcohol	20001912041	2
Caelo	Isopropyl alcohol	20001912042	2
Caelo	Isopropyl alcohol	2000191912040	1
Caelo	Isopropyl alcohol	200036730	1
Caelo	Isopropyl alcohol	20003673003	1
Caelo	Isopropyl alcohol	20003673004	2
Caelo	Isopropyl alcohol	20003673005	4
Caelo	Isopropyl alcohol	20003673006	2
Caelo	Isopropyl alcohol	20003673009	1
Caelo	Isopropyl alcohol	20003673016	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	20003673017	2
Caelo	Isopropyl alcohol	20003673018	1
Caelo	Isopropyl alcohol	20003673021	1
Caelo	Isopropyl alcohol	20003673022	1
Caelo	Isopropyl alcohol	20003673024	2
Caelo	Isopropyl alcohol	20003673027	1
Caelo	Isopropyl alcohol	20003673028	1
Caelo	Isopropyl alcohol	20003673029	1
Caelo	Isopropyl alcohol	20003673033	2
Caelo	Isopropyl alcohol	20003673038	1
Caelo	Isopropyl alcohol	20003673041	4
Caelo	Isopropyl alcohol	20003673042	2
Caelo	Isopropyl alcohol	20003673303	1
Caelo	Isopropyl alcohol	20011703	1
Caelo	Isopropyl alcohol	2001557006	1
Caelo	Isopropyl alcohol	20060912-4	1
Caelo	Isopropyl alcohol	20081204	1
Caelo	Isopropyl alcohol	2011403	1
Caelo	Isopropyl alcohol	2051704	1
Caelo	Isopropyl alcohol	21002392002	2
Caelo	Isopropyl alcohol	21002392003	3
Caelo	Isopropyl alcohol	21002392010	3
Caelo	Isopropyl alcohol	21002392015	1
Caelo	Isopropyl alcohol	21002392016	2
Caelo	Isopropyl alcohol	21002392020	1
Caelo	Isopropyl alcohol	21002392022	1
Caelo	Isopropyl alcohol	21002392024	2
Caelo	Isopropyl alcohol	21002392032	1
Caelo	Isopropyl alcohol	21002392036	1
Caelo	Isopropyl alcohol	21021311	1
Caelo	Isopropyl alcohol	21091702	1
Caelo	Isopropyl alcohol	21111402	1
Caelo	Isopropyl alcohol	2121705	1
Caelo	Isopropyl alcohol	22000206004	2
Caelo	Isopropyl alcohol	22011302	1
Caelo	Isopropyl alcohol	2201201301	1
Caelo	Isopropyl alcohol	22091203	1
Caelo	Isopropyl alcohol	22111204	1
Caelo	Isopropyl alcohol	22121201	1
Caelo	Isopropyl alcohol	24071201	1
Caelo	Isopropyl alcohol	25021501	1
Caelo	Isopropyl alcohol	25041802	1
Caelo	Isopropyl alcohol	25051802	1
Caelo	Isopropyl alcohol	25061201	1
Caelo	Isopropyl alcohol	26051704	1
Caelo	Isopropyl alcohol	26081710	1
Caelo	Isopropyl alcohol	27012017	1
Caelo	Isopropyl alcohol	27031502	1
Caelo	Isopropyl alcohol	27071712	1
Caelo	Isopropyl alcohol	27091401	1
Caelo	Isopropyl alcohol	27121702	1
Caelo	Isopropyl alcohol	28021316	1
Caelo	Isopropyl alcohol	28081302	1
Caelo	Isopropyl alcohol	28111806	1
Caelo	Isopropyl alcohol	29011505	1
Caelo	Isopropyl alcohol	29051202	1
Caelo	Isopropyl alcohol	29071401	1
Caelo	Isopropyl alcohol	29091801	1
Caelo	Isopropyl alcohol	29101304	1
Caelo	Isopropyl alcohol	30011401	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	30041508	1
Caelo	Isopropyl alcohol	30111303	1
Caelo	Isopropyl alcohol	3071718	1
Caelo	Isopropyl alcohol	3091801	1
Caelo	Isopropyl alcohol	31081501	1
Caelo	Isopropyl alcohol	31101204	1
Caelo	Isopropyl alcohol	3300	1
Caelo	Isopropyl alcohol	3326	1
Caelo	Isopropyl alcohol	3653305	1
Caelo	Isopropyl alcohol	4031405	1
Caelo	Isopropyl alcohol	4061401	1
Caelo	Isopropyl alcohol	4091201	1
Caelo	Isopropyl alcohol	4121802	1
Caelo	Isopropyl alcohol	4217E-01079	1
Caelo	Isopropyl alcohol	4817A-01079	1
Caelo	Isopropyl alcohol	5031303	1
Caelo	Isopropyl alcohol	5061415	1
Caelo	Isopropyl alcohol	53380	1
Caelo	Isopropyl alcohol	543892	1
Caelo	Isopropyl alcohol	6061320	1
Caelo	Isopropyl alcohol	6061402	1
Caelo	Isopropyl alcohol	6071201	1
Caelo	Isopropyl alcohol	6081204	1
Caelo	Isopropyl alcohol	6081303	1
Caelo	Isopropyl alcohol	6101704	1
Caelo	Isopropyl alcohol	6137305	1
Caelo	Isopropyl alcohol	6324064	1
Caelo	Isopropyl alcohol	701006B	2
Caelo	Isopropyl alcohol	701011B	1
Caelo	Isopropyl alcohol	701015B	1
Caelo	Isopropyl alcohol	7010208	1
Caelo	Isopropyl alcohol	701020B	1
Caelo	Isopropyl alcohol	701031B	3
Caelo	Isopropyl alcohol	701035B	1
Caelo	Isopropyl alcohol	701043B	5
Caelo	Isopropyl alcohol	701052B	1
Caelo	Isopropyl alcohol	701054B	1
Caelo	Isopropyl alcohol	701061B	1
Caelo	Isopropyl alcohol	701065B	5
Caelo	Isopropyl alcohol	701071B	2
Caelo	Isopropyl alcohol	701073B	1
Caelo	Isopropyl alcohol	701078B	1
Caelo	Isopropyl alcohol	701081B	1
Caelo	Isopropyl alcohol	701093B	2
Caelo	Isopropyl alcohol	701105B	2
Caelo	Isopropyl alcohol	701107B	1
Caelo	Isopropyl alcohol	701186B	1
Caelo	Isopropyl alcohol	7011898	1
Caelo	Isopropyl alcohol	701193B	1
Caelo	Isopropyl alcohol	701212B	1
Caelo	Isopropyl alcohol	701244B	1
Caelo	Isopropyl alcohol	701276B	1
Caelo	Isopropyl alcohol	701305B	1
Caelo	Isopropyl alcohol	701321B	1
Caelo	Isopropyl alcohol	7041802	1
Caelo	Isopropyl alcohol	70439B	1
Caelo	Isopropyl alcohol	70478B	1
Caelo	Isopropyl alcohol	70481B	2
Caelo	Isopropyl alcohol	70492B	2
Caelo	Isopropyl alcohol	7051401	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	705368	1
Caelo	Isopropyl alcohol	705408	1
Caelo	Isopropyl alcohol	70541b	1
Caelo	Isopropyl alcohol	70541B	2
Caelo	Isopropyl alcohol	70545B	1
Caelo	Isopropyl alcohol	705538	2
Caelo	Isopropyl alcohol	70553B	1
Caelo	Isopropyl alcohol	70555B	1
Caelo	Isopropyl alcohol	70564B	1
Caelo	Isopropyl alcohol	70565B	1
Caelo	Isopropyl alcohol	70573B	1
Caelo	Isopropyl alcohol	70584B	1
Caelo	Isopropyl alcohol	70593B	1
Caelo	Isopropyl alcohol	705988	1
Caelo	Isopropyl alcohol	70598b	1
Caelo	Isopropyl alcohol	70598B	1
Caelo	Isopropyl alcohol	70609B	1
Caelo	Isopropyl alcohol	70638B	1
Caelo	Isopropyl alcohol	70643B	2
Caelo	Isopropyl alcohol	70650B	1
Caelo	Isopropyl alcohol	70656B	1
Caelo	Isopropyl alcohol	706588	1
Caelo	Isopropyl alcohol	70663B	1
Caelo	Isopropyl alcohol	70668B	1
Caelo	Isopropyl alcohol	70685B	2
Caelo	Isopropyl alcohol	70690B	1
Caelo	Isopropyl alcohol	70701B	1
Caelo	Isopropyl alcohol	70707B	1
Caelo	Isopropyl alcohol	70726B	1
Caelo	Isopropyl alcohol	70739B	1
Caelo	Isopropyl alcohol	70742B	1
Caelo	Isopropyl alcohol	70748B	2
Caelo	Isopropyl alcohol	70755B	2
Caelo	Isopropyl alcohol	70768b	1
Caelo	Isopropyl alcohol	707838	1
Caelo	Isopropyl alcohol	70788B	1
Caelo	Isopropyl alcohol	707998	1
Caelo	Isopropyl alcohol	70799B	1
Caelo	Isopropyl alcohol	708088	1
Caelo	Isopropyl alcohol	708188	1
Caelo	Isopropyl alcohol	70835B	2
Caelo	Isopropyl alcohol	70858B	2
Caelo	Isopropyl alcohol	70870B	2
Caelo	Isopropyl alcohol	70881B	2
Caelo	Isopropyl alcohol	70889B	2
Caelo	Isopropyl alcohol	70936B	1
Caelo	Isopropyl alcohol	70953B	1
Caelo	Isopropyl alcohol	70957B	1
Caelo	Isopropyl alcohol	70959b	1
Caelo	Isopropyl alcohol	70959B	2
Caelo	Isopropyl alcohol	70969B	1
Caelo	Isopropyl alcohol	70973B	1
Caelo	Isopropyl alcohol	70977B	1
Caelo	Isopropyl alcohol	70983B	2
Caelo	Isopropyl alcohol	70991B	1
Caelo	Isopropyl alcohol	709948	1
Caelo	Isopropyl alcohol	70994B	4
Caelo	Isopropyl alcohol	7111802	1
Caelo	Isopropyl alcohol	713Q-01079	1
Caelo	Isopropyl alcohol	7272262	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol	7411	1
Caelo	Isopropyl alcohol	750520B	1
Caelo	Isopropyl alcohol	7776	1
Caelo	Isopropyl alcohol	8012014E	1
Caelo	Isopropyl alcohol	8082014C	1
Caelo	Isopropyl alcohol	883588	1
Caelo	Isopropyl alcohol	9041704	1
Caelo	Isopropyl alcohol	9061812	1
Caelo	Isopropyl alcohol	9071802	1
Caelo	Isopropyl alcohol	9101314	1
Caelo	Isopropyl alcohol	Caelo	1
Caelo	Isopropyl alcohol	nichtvorhanden	1
Caeol/Phönix	Isopropyl alcohol	19059513	1
Caesar & Loretz GmbH / ...	Isopropyl alcohol	18291732	1
Caesar & Loretz GmbH / ...	Isopropyl alcohol	20001179022	1
Caesar & Loretz GmbH / ...	Isopropyl alcohol	20001179001	2
Caesar & Loretz GmbH / ...	Isopropyl alcohol	20001179028	1
Caesar & Loretz GmbH, P...	Isopropyl alcohol	1007091	1
Caesar & Loretz GmbH/ A...	Isopropyl alcohol	20001179023	1
Caesar & Loretz GmbH/ S...	Isopropyl alcohol	20000450022	1
Caesar & Loretz GmbH/ S...	Isopropyl alcohol	20001179001	1
Caesar & Loretz GmbH/ S...	Isopropyl alcohol	701212B	6
Caesar & Loretz GmbH/AHD	Isopropyl alcohol	18291728	1
Caesar & Loretz GmbH/AHD	Isopropyl alcohol	19059502	1
Caesar & Loretz GmbH/AHD	Isopropyl alcohol	19209809	1
Caesar & Loretz GmbH/An...	Isopropyl alcohol	19059529	1
Caesar & Loretz GmbH/An...	Isopropyl alcohol	192098008	1
Caesar & Loretz GmbH/An...	Isopropyl alcohol	19209811	1
Caesar & Loretz GmbH/Gehe	Isopropyl alcohol	20001179014	2
Caesar & Loretz GmbH/GEHE	Isopropyl alcohol	20001912029	1
Caesar & Loretz GmbH/Je...	Isopropyl alcohol	19059512	1
Caesar & Loretz GmbH/Je...	Isopropyl alcohol	19209824	1
Caesar & Loretz GmbH/Je...	Isopropyl alcohol	20000450012	5
Caesar & Loretz GmbH/Je...	Isopropyl alcohol	20001179011	1
Caesar & Loretz GmbH/Je...	Isopropyl alcohol	20001179020	1
Caesar & Loretz GmbH/Kr...	Isopropyl alcohol	20001179020	1
Caesar & Loretz GmbH/No...	Isopropyl alcohol	20001912019	1
Caesar & Loretz GmbH/P	Isopropyl alcohol	19209804	1
Caesar & Loretz GmbH/Phoe	Isopropyl alcohol	20001912024	1
Caesar & Loretz GmbH/Ph...	Isopropyl alcohol	19059502	1
Caesar & Loretz GmbH/Sa...	Isopropyl alcohol	19209815	2
Caesar & Loretz GmbH/sa...	Isopropyl alcohol	18178234	1
Caesar & Loretz GmbH/Sa...	Isopropyl alcohol	19059525	1
Caesar & Loretz GmbH/sa...	Isopropyl alcohol	192098001	1
Caesar & Loretz GmbH/Sa...	Isopropyl alcohol	19209811	1
Caesar & Loretz GmbH/Sa...	Isopropyl alcohol	19209818	1
Caesar & Loretz GmbH	Isopropyl alcohol	17189327	1
Caesar & Loretz GmbH	Isopropyl alcohol	18178224	1
Caesar & Loretz GmbH	Isopropyl alcohol	18178226	1
Caesar & Loretz GmbH	Isopropyl alcohol	18178231	1
Caesar & Loretz GmbH	Isopropyl alcohol	18178234	2
Caesar & Loretz GmbH	Isopropyl alcohol	18291701	2
Caesar & Loretz GmbH	Isopropyl alcohol	18291703	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291705	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291710	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291712	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291715	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291717	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291719	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291722	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Isopropyl alcohol	18291726	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291727	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291728	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291729	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291730	1
Caesar & Loretz GmbH	Isopropyl alcohol	18291733	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059502	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059503	2
Caesar & Loretz GmbH	Isopropyl alcohol	19059504	3
Caesar & Loretz GmbH	Isopropyl alcohol	19059505	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059511	2
Caesar & Loretz GmbH	Isopropyl alcohol	19059514	2
Caesar & Loretz GmbH	Isopropyl alcohol	19059516	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059520	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059525	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059526	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059527	2
Caesar & Loretz GmbH	Isopropyl alcohol	19059528	3
Caesar & Loretz GmbH	Isopropyl alcohol	19059529	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059530	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059531	1
Caesar & Loretz GmbH	Isopropyl alcohol	19059533	1
Caesar & Loretz GmbH	Isopropyl alcohol	191905	1
Caesar & Loretz GmbH	Isopropyl alcohol	19209801	1
Caesar & Loretz GmbH	Isopropyl alcohol	19209802	2
Caesar & Loretz GmbH	Isopropyl alcohol	19209804	3
Caesar & Loretz GmbH	Isopropyl alcohol	19209805	2
Caesar & Loretz GmbH	Isopropyl alcohol	19209808	1
Caesar & Loretz GmbH	Isopropyl alcohol	19209809	2
Caesar & Loretz GmbH	Isopropyl alcohol	19209812	1
Caesar & Loretz GmbH	Isopropyl alcohol	19209813	1
Caesar & Loretz GmbH	Isopropyl alcohol	19209816	2
Caesar & Loretz GmbH	Isopropyl alcohol	19209819	1
Caesar & Loretz GmbH	Isopropyl alcohol	19209820	1
Caesar & Loretz GmbH	Isopropyl alcohol	19209822	1
Caesar & Loretz GmbH	Isopropyl alcohol	19209824	2
Caesar & Loretz GmbH	Isopropyl alcohol	19209826	1
Caesar & Loretz GmbH	Isopropyl alcohol	200001557003	1
Caesar & Loretz GmbH	Isopropyl alcohol	20000450002	1
Caesar & Loretz GmbH	Isopropyl alcohol	20000450004	1
Caesar & Loretz GmbH	Isopropyl alcohol	20000450009	1
Caesar & Loretz GmbH	Isopropyl alcohol	20000450012	4
Caesar & Loretz GmbH	Isopropyl alcohol	20000450017	2
Caesar & Loretz GmbH	Isopropyl alcohol	20000450021	1
Caesar & Loretz GmbH	Isopropyl alcohol	20000450024	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001179001	3
Caesar & Loretz GmbH	Isopropyl alcohol	20001179005	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001179006	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001179010	2
Caesar & Loretz GmbH	Isopropyl alcohol	20001179011	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001179015	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001179017	4
Caesar & Loretz GmbH	Isopropyl alcohol	20001179020	2
Caesar & Loretz GmbH	Isopropyl alcohol	20001179023	2
Caesar & Loretz GmbH	Isopropyl alcohol	20001179029	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001557004	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001557005	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001557011	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001557013	2
Caesar & Loretz GmbH	Isopropyl alcohol	20001557014	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Isopropyl alcohol	20001557021	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001557030	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001912004	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001912017	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001912019	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001912020	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001912022	2
Caesar & Loretz GmbH	Isopropyl alcohol	20001912023	2
Caesar & Loretz GmbH	Isopropyl alcohol	20001912024	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001912031	2
Caesar & Loretz GmbH	Isopropyl alcohol	20001912039	1
Caesar & Loretz GmbH	Isopropyl alcohol	20001912042	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673008	2
Caesar & Loretz GmbH	Isopropyl alcohol	20003673010	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673016	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673018	1
CAESAR & LORETZ GMBH	Isopropyl alcohol	20003673021	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673022	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673024	2
Caesar & Loretz GmbH	Isopropyl alcohol	20003673028	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673029	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673030	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673036	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673039	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673041	1
Caesar & Loretz GmbH	Isopropyl alcohol	20003673042	1
Caesar & Loretz GmbH	Isopropyl alcohol	2001179022	1
Caesar & Loretz GmbH	Isopropyl alcohol	2001557021	1
Caesar & Loretz GmbH	Isopropyl alcohol	21002392003	2
Caesar & Loretz GmbH	Isopropyl alcohol	21002392015	1
Caesar & Loretz GmbH	Isopropyl alcohol	21002392021	1
Caesar & Loretz GmbH	Isopropyl alcohol	21002392022	1
Caesar & Loretz GmbH	Isopropyl alcohol	21002392024	1
Caesar & Loretz GmbH	Isopropyl alcohol	21002392034	2
Caesar & Loretz GmbH	Isopropyl alcohol	21002392041	1
Caesar & Loretz GmbH	Isopropyl alcohol	22000206012	1
Caesar & Loretz GmbH	Isopropyl alcohol	700053B	1
Caesar & Loretz GmbH	Isopropyl alcohol	701201B	7
CAESAR & LORETZ GMBH	Isopropyl alcohol	701258B	1
Caesar & Loretz/Gehe	Isopropyl alcohol	19209815	1
Caesar & Loretz/Gehe	Isopropyl alcohol	20000450013	1
Caesar & Loretz/Noweda	Isopropyl alcohol	17044009	1
Caesar & Loretz	Isopropyl alcohol	17189320	1
Caesar & Loretz	Isopropyl alcohol	18065420	1
Caesar & LoretzGehe	Isopropyl alcohol	19209816	1
Caesar &Loretz GmbH	Isopropyl alcohol	70503B	1
Caesar /phönix	Isopropyl alcohol	16310603	1
Caesar&Lorenz / Gehe	Isopropyl alcohol	19059525	1
Caesar&Loretz GmbH	Isopropyl alcohol		1
Caesar&Loretz GmbH	Isopropyl alcohol	20001912019	1
Caesar&Loretz/Noweda	Isopropyl alcohol	15398808	1
Caesar/Loretz GmbH / P...	Isopropyl alcohol	20001912002	1
Caesar/Loretz GmbH / P...	Isopropyl alcohol	20001912009	1
Caesar/Loretz GmbH Anzag	Isopropyl alcohol	20001179	1
Caesar/Loretz GmbH Anzag	Isopropyl alcohol	20001557030	1
Caesar/Loretz GmbH Anzag	Isopropyl alcohol	701199B	1
Caeser und Loretz GmbH	Isopropyl alcohol	18291723	1
Caeser und Loretz GmbH	Isopropyl alcohol	19209822	1
Caldic/ Nanoprotect	Isopropyl alcohol	90021901	1
Carl Roth GmbH	Isopropyl alcohol	110294624	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Carl Roth GmbH	Isopropyl alcohol	120294894	1
Carl Roth GmbH	Isopropyl alcohol	701214B	2
Carl Roth	Isopropyl alcohol	120294894	1
Cealo/Phoenix	Isopropyl alcohol	162340	1
Cealo/Sanacorp	Isopropyl alcohol	192098009	1
cealo	Isopropyl alcohol	13336936	1
Cealo	Isopropyl alcohol	19059526	1
Cealo	Isopropyl alcohol	192098007	1
Cealo	Isopropyl alcohol	20000450006	1
Cealo7058	Isopropyl alcohol	17300423	1
Celo	Isopropyl alcohol	16039925	1
Celo	Isopropyl alcohol	16039937	1
celo	Isopropyl alcohol	17300430	2
Chem.Fabrik/Kehr	Isopropyl alcohol	2011	1
Chem.Pharm.Labor.Dr.See...	Isopropyl alcohol	70577B	1
Chemievertrieb Hannover	Isopropyl alcohol	2011	1
CVH/Kehr	Isopropyl alcohol	2011	1
Dankwart	Isopropyl alcohol	N9360450-001	1
Dr. Seeger GmbH /Noweda	Isopropyl alcohol	70577B	2
Dr.Seeger GmbH	Isopropyl alcohol	70475B	1
Dr.Seeger GmbH	Isopropyl alcohol	70519B	1
Dr.Seeger GmbH	Isopropyl alcohol	70527B	1
Dr.Seeger GmbH	Isopropyl alcohol	70553B	2
Druckchemie	Isopropyl alcohol	20035016	1
Ebert & Jacobi 28.7.16	Isopropyl alcohol	16137317	1
Eckige Flasche	Isopropyl alcohol	70162320	1
Ehl	Isopropyl alcohol	xxxxxxxx	1
Eigen	Isopropyl alcohol	70701B	1
Euro OTC	Isopropyl alcohol	13249405	1
Euro OTC	Isopropyl alcohol	18291704	1
Euro OTC	Isopropyl alcohol	70536B	1
Euro OTC	Isopropyl alcohol	70578B	1
Euro OTC	Isopropyl alcohol	70638	1
Euro OTC	Isopropyl alcohol	70771B	1
Euro OTC	Isopropyl alcohol	70858B	1
Euro OTC	Isopropyl alcohol	L1805017-03	1
Europharm / Gehe	Isopropyl alcohol	18065401	1
Fa. Hedinger/Noweda	Isopropyl alcohol	701244B	1
Fagron	Isopropyl alcohol		1
Fagron	Isopropyl alcohol	13111701	1
Fagron	Isopropyl alcohol	17189307	1
Fagron	Isopropyl alcohol	7010618	1
Fagron	Isopropyl alcohol	701065B	1
Fagron	Isopropyl alcohol	701068B	1
Fagron	Isopropyl alcohol	701071B	1
Fagron	Isopropyl alcohol	70541	1
Fagron	Isopropyl alcohol	70685B	1
Fagron	Isopropyl alcohol	70936B	1
FHedinger/Gehe	Isopropyl alcohol	701194B	1
Fiebig 09.11.12 EK28,33	Isopropyl alcohol	704758	1
Fiebig/Aug.Hedinger GmbH	Isopropyl alcohol	701020B	1
Fiebig/Hedinger	Isopropyl alcohol	701081B	2
Fiebig/Hedinger	Isopropyl alcohol	701149B	1
Fiebig/Hedinger	Isopropyl alcohol	701201B	1
Fiebig/Hedinger	Isopropyl alcohol	70680B	1
Fiebig/Hedinger	Isopropyl alcohol	70959B	1
Fiebig	Isopropyl alcohol	17300401	1
Fiebig	Isopropyl alcohol	17300416	1
Fiebig	Isopropyl alcohol	18065412	2
Fiebig	Isopropyl alcohol	18291704	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Isopropyl alcohol	701026B	1
Fiebig	Isopropyl alcohol	701043B	1
Fiebig	Isopropyl alcohol	701052B	2
Fiebig	Isopropyl alcohol	701099B	1
Fiebig	Isopropyl alcohol	701107B	1
Fiebig	Isopropyl alcohol	701199B	1
Fiebig	Isopropyl alcohol	701244B	1
FiebigHedinger	Isopropyl alcohol	701139B	1
Firma Kost/firma Kost	Isopropyl alcohol	310200519154	1
Firma Schwabe KA-Durlac...	Isopropyl alcohol	10320	1
Fischar GmbH	Isopropyl alcohol	4105104	1
Fischar/ GEHE	Isopropyl alcohol	1008011	1
Fischar/ Noweda	Isopropyl alcohol	1009011	1
Fischar/ Noweda	Isopropyl alcohol	1009012	2
Fischar/Fiebig 31.07.2018	Isopropyl alcohol	1007011	1
Fischar/Noweda	Isopropyl alcohol	4100014	1
Fischar/Noweda	Isopropyl alcohol	410003C	1
Fischar/Noweda	Isopropyl alcohol	4109044	1
Fischar/Noweda	Isopropyl alcohol	4109074	1
Fischar/Phönix	Isopropyl alcohol	4100032	1
Fischar/Phönix	Isopropyl alcohol	4103112	1
Fischar	Isopropyl alcohol		1
Fischar	Isopropyl alcohol	1005101	1
Fischar	Isopropyl alcohol	1007011	1
Fischar	Isopropyl alcohol	1008011	1
Fischar	Isopropyl alcohol	1009011	1
Fischar	Isopropyl alcohol	1009101	1
fischar	Isopropyl alcohol	3346271	1
Fischar	Isopropyl alcohol	410003G	1
Fischar	Isopropyl alcohol	4100111	1
Fischar	Isopropyl alcohol	4102084	2
Fischar	Isopropyl alcohol	4105042	1
Fischar	Isopropyl alcohol	4105104	1
Fischar	Isopropyl alcohol	4108024	1
Fischar	Isopropyl alcohol	4108114	1
Fischar	Isopropyl alcohol	70553B	1
Fischar	Isopropyl alcohol	8081	1
fischer / Anzag	Isopropyl alcohol	1009012	1
Fischer/Phönix	Isopropyl alcohol	4103014	1
Fisher Chemical	Isopropyl alcohol	2034478	1
Flasche mit Auswölbung	Isopropyl alcohol	31472	1
Flavex	Isopropyl alcohol	502024	1
Folgt	Isopropyl alcohol	Folgt	1
FurthChemie	Isopropyl alcohol	3C210010	1
Gatt-Koller	Isopropyl alcohol	KNC0691J8	1
Gehe - Hedinger	Isopropyl alcohol	70607B	1
GEHE 08.05.2014	Isopropyl alcohol	70598B	1
Gehe am 07.03.14	Isopropyl alcohol	70573B	1
Gehe am 17.12.2013	Isopropyl alcohol	70578B	1
GEHE Kassel	Isopropyl alcohol	701081B	1
Gehe/ Hedinger	Isopropyl alcohol	7012188	1
Gehe/AEP	Isopropyl alcohol	701123B	1
Gehe/Fischar	Isopropyl alcohol	1005101	2
Gehe/Hedinger	Isopropyl alcohol	701006B	1
Gehe/Hedinger	Isopropyl alcohol	701078B	1
Gehe/Hedinger	Isopropyl alcohol	701114B	1
Gehe/Hedinger	Isopropyl alcohol	701123B	1
Gehe/Hedinger	Isopropyl alcohol	701133B	2
Gehe/Hedinger	Isopropyl alcohol	701139b	2
Gehe/Hedinger	Isopropyl alcohol	701193B	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe/Hedinger	Isopropyl alcohol	701201B	2
Gehe/Hedinger	Isopropyl alcohol	701214B	1
Gehe/Hedinger	Isopropyl alcohol	701218B	1
Gehe/Hedinger	Isopropyl alcohol	70540B	1
Gehe/Hedinger	Isopropyl alcohol	70802B	1
Gehe/Hedinger	Isopropyl alcohol	709188	1
Gehe/Spinnrad GmbH	Isopropyl alcohol	519410092	1
Gehe	Isopropyl alcohol	12031105	1
Gehe	Isopropyl alcohol	12254718	1
Gehe	Isopropyl alcohol	13050927	1
Gehe	Isopropyl alcohol	13249403	1
gehe	Isopropyl alcohol	14219228	1
Gehe	Isopropyl alcohol	15057517	1
Gehe	Isopropyl alcohol	15398802	1
Gehe	Isopropyl alcohol	16039926	1
Gehe	Isopropyl alcohol	16234003	1
Gehe	Isopropyl alcohol	17044002	1
GEHE	Isopropyl alcohol	17300433	1
GEHE	Isopropyl alcohol	18065406	1
Gehe	Isopropyl alcohol	18291709	1
Gehe	Isopropyl alcohol	18291722	1
GEHE	Isopropyl alcohol	18291727	1
Gehe	Isopropyl alcohol	19059503	1
gehe	Isopropyl alcohol	20001557005	2
Gehe	Isopropyl alcohol	701031B	1
Gehe	Isopropyl alcohol	701035B	2
GEHE	Isopropyl alcohol	701043B	1
Gehe	Isopropyl alcohol	701052B	1
GEHE	Isopropyl alcohol	701065B	2
GEHE	Isopropyl alcohol	701099B	1
Gehe	Isopropyl alcohol	701107B	1
Gehe	Isopropyl alcohol	701136B	1
Gehe	Isopropyl alcohol	701139B	1
Gehe	Isopropyl alcohol	701145B	2
Gehe	Isopropyl alcohol	701156B	1
Gehe	Isopropyl alcohol	701158B	1
Gehe	Isopropyl alcohol	701169B	1
Gehe	Isopropyl alcohol	701302B	1
Gehe	Isopropyl alcohol	701317B	1
Gehe	Isopropyl alcohol	70382B	1
Gehe	Isopropyl alcohol	704098	1
Gehe	Isopropyl alcohol	70448B	1
GEHE	Isopropyl alcohol	70461B	1
Gehe	Isopropyl alcohol	70507B	1
Gehe	Isopropyl alcohol	70541B	1
Gehe	Isopropyl alcohol	70643B	1
Gehe	Isopropyl alcohol	70680B	1
Gehe	Isopropyl alcohol	70685B	1
Gehe	Isopropyl alcohol	707977B	1
Gehe	Isopropyl alcohol	70835B	1
GEHE	Isopropyl alcohol	70882B	1
Gehe	Isopropyl alcohol	70892B	1
GEHE	Isopropyl alcohol	70896B	1
Gehe	Isopropyl alcohol	70908B	1
Gehe	Isopropyl alcohol	70994B	1
GEHE	Isopropyl alcohol	70994B	1
Gehe-Hedinger	Isopropyl alcohol	70675B	1
Geibo/Hedinger 29.05.2020	Isopropyl alcohol	7012148	1
Geibo/Hedinger	Isopropyl alcohol	701043B	1
Geibo/Hedinger	Isopropyl alcohol	70983	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Geibo/Noweda	Isopropyl alcohol	17300401	1
Grüssing	Isopropyl alcohol	B191546/OR2001439	1
GUMO	Isopropyl alcohol	20001557009	1
Gutenberg-Apotheke	Isopropyl alcohol	70607B	1
Haedinger/Sanacorp	Isopropyl alcohol	701065B	3
Hänseler	Isopropyl alcohol		5
Hänseler	Isopropyl alcohol	2019040600	1
Hed	Isopropyl alcohol	701164B	1
Heddinger/Noweda	Isopropyl alcohol	701145B	1
Hediger GmbH / Anzag	Isopropyl alcohol	701204B	2
Hediger/ Noweda	Isopropyl alcohol	70675B	1
Hediger/Sanacorp	Isopropyl alcohol	70736B	1
Hedin/Gehe	Isopropyl alcohol	701113B	1
Hedin/Spangro	Isopropyl alcohol	70994B	1
Hediner/Noweda	Isopropyl alcohol	701031B	1
Hediner/Noweda	Isopropyl alcohol	70908B	1
Hediner/Noweda	Isopropyl alcohol	70977B	1
heding	Isopropyl alcohol	701182B	1
Hedinger vdL	Isopropyl alcohol	70715B	1
Hedinger Phönix	Isopropyl alcohol	701073B	1
Hedinger vdL	Isopropyl alcohol	70748B	1
Hedinger vdL	Isopropyl alcohol	70853B	1
Hedinger vdL	Isopropyl alcohol	70889B	1
Hedinger , Noweda	Isopropyl alcohol	70490B	1
Hedinger , Stuttgart	Isopropyl alcohol	70545B	1
Hedinger , Stuttgart	Isopropyl alcohol	70565B	1
Hedinger , Stuttgart	Isopropyl alcohol	70620B	1
Hedinger / Anzag	Isopropyl alcohol	701043B	1
Hedinger / Anzag	Isopropyl alcohol	701107B	1
Hedinger / Noveda	Isopropyl alcohol	701065B	1
Hedinger / Noveda	Isopropyl alcohol	70977B	1
HEDINGER / 20	Isopropyl alcohol	70573B	1
HEDINGER / 20	Isopropyl alcohol	70614B	1
HEDINGER / 20	Isopropyl alcohol	70638B	1
HEDINGER / 20	Isopropyl alcohol	70726B	1
Hedinger / 30	Isopropyl alcohol	70768B	1
Hedinger / 41	Isopropyl alcohol	701194B	1
Hedinger / AHC	Isopropyl alcohol	701073B	1
Hedinger / AHC	Isopropyl alcohol	70124B	1
Hedinger / AHD 1 l	Isopropyl alcohol	7012338	1
Hedinger / AHD 21.4.15	Isopropyl alcohol	70693B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	701054B	2
Hedinger / Alliance Hea...	Isopropyl alcohol	70969B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	70983B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	7011078	1
Hedinger / Alliance Hea...	Isopropyl alcohol	701156B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	701204B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	701290B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	70796B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	70858B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	70875B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	70936B	1
Hedinger / Alliance Hea...	Isopropyl alcohol	70991B	1
Hedinger / Alliance	Isopropyl alcohol	701305B	1
Hedinger / Anzag	Isopropyl alcohol	701081B	1
Hedinger / Anzag	Isopropyl alcohol	701123B	1
Hedinger / Apotheke E.B...	Isopropyl alcohol	70448B	1
Hedinger / Apotheke E.B...	Isopropyl alcohol	70461B	1
Hedinger / Apotheke E.B...	Isopropyl alcohol	70541B	1
Hedinger / Apotheke E.B...	Isopropyl alcohol	70587B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger / Apotheke E.B...	Isopropyl alcohol	70643B	1
Hedinger / Fiebig	Isopropyl alcohol	701139B	1
Hedinger / Fiebig	Isopropyl alcohol	770994B	1
Hedinger / Gehe	Isopropyl alcohol	701006B	1
Hedinger / Gehe	Isopropyl alcohol	7010118	1
Hedinger / Gehe	Isopropyl alcohol	701078B	1
Hedinger / Gehe	Isopropyl alcohol	701099B	1
Hedinger / Gehe	Isopropyl alcohol	701113B	1
Hedinger / Gehe	Isopropyl alcohol	701123B	1
Hedinger / Gehe	Isopropyl alcohol	701156B	1
Hedinger / Gehe	Isopropyl alcohol	701212B	1
Hedinger / Gehe	Isopropyl alcohol	701218B	1
Hedinger / Gehe	Isopropyl alcohol	701231B	1
Hedinger / Gehe	Isopropyl alcohol	701244B	1
Hedinger / Gehe	Isopropyl alcohol	70581B	1
Hedinger / Gehe	Isopropyl alcohol	70742B	1
Hedinger / Gehe	Isopropyl alcohol	70802B	1
Hedinger / Gehe	Isopropyl alcohol	70809B	1
Hedinger / Gehe	Isopropyl alcohol	70889B	1
Hedinger / Gehe	Isopropyl alcohol	70977B	1
Hedinger / Gehe	Isopropyl alcohol	70994B	1
Hedinger / Jenne	Isopropyl alcohol	701173B	1
Hedinger / Kehr	Isopropyl alcohol	70755B	1
Hedinger / Kehr	Isopropyl alcohol	7098B	1
Hedinger / Krieger	Isopropyl alcohol	701156B	1
Hedinger / NOW	Isopropyl alcohol	701199B	1
Hedinger / Nowed	Isopropyl alcohol	70730B	1
Hedinger / Noweda Münster	Isopropyl alcohol	70734B	1
Hedinger / Noweda	Isopropyl alcohol	701011B	1
Hedinger / Noweda	Isopropyl alcohol	701015B	1
Hedinger / Noweda	Isopropyl alcohol	701052B	1
Hedinger / Noweda	Isopropyl alcohol	701054B	1
Hedinger / Noweda	Isopropyl alcohol	701071B	1
Hedinger / Noweda	Isopropyl alcohol	701073B	1
Hedinger / Noweda	Isopropyl alcohol	701078B	1
Hedinger / Noweda	Isopropyl alcohol	701113B	1
Hedinger / Noweda	Isopropyl alcohol	701133B	1
Hedinger / Noweda	Isopropyl alcohol	701136B	1
Hedinger / Noweda	Isopropyl alcohol	701145B	1
Hedinger / Noweda	Isopropyl alcohol	7011648	1
Hedinger / Noweda	Isopropyl alcohol	701164B	1
Hedinger / Noweda	Isopropyl alcohol	7011738	1
Hedinger / Noweda	Isopropyl alcohol	701173B	2
Hedinger / Noweda	Isopropyl alcohol	7011868	1
Hedinger / Noweda	Isopropyl alcohol	701188B	1
Hedinger / Noweda	Isopropyl alcohol	701194B	1
Hedinger / Noweda	Isopropyl alcohol	7012018	1
Hedinger / Noweda	Isopropyl alcohol	701201B	1
Hedinger / Noweda	Isopropyl alcohol	7012048	1
Hedinger / Noweda	Isopropyl alcohol	701212B	1
Hedinger / Noweda	Isopropyl alcohol	7012588	1
Hedinger / Noweda	Isopropyl alcohol	70525B	1
Hedinger / Noweda	Isopropyl alcohol	70587B	1
Hedinger / Noweda	Isopropyl alcohol	70620B	1
Hedinger / Noweda	Isopropyl alcohol	70627B	1
Hedinger / Noweda	Isopropyl alcohol	70643B	1
Hedinger / Noweda	Isopropyl alcohol	70659B	1
Hedinger / Noweda	Isopropyl alcohol	70663B	1
Hedinger / Noweda	Isopropyl alcohol	70675B	1
Hedinger / Noweda	Isopropyl alcohol	70703B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger / Noweda	Isopropyl alcohol	70734B	1
Hedinger / Noweda	Isopropyl alcohol	70737B	1
Hedinger / Noweda	Isopropyl alcohol	70748B	1
Hedinger / Noweda	Isopropyl alcohol	70762B	1
Hedinger / Noweda	Isopropyl alcohol	70788B	1
Hedinger / Noweda	Isopropyl alcohol	70870B	1
Hedinger / Noweda	Isopropyl alcohol	70882B	1
Hedinger / Noweda	Isopropyl alcohol	70889B	1
HEDINGER / NOWEDA	Isopropyl alcohol	70898B	1
Hedinger / Noweda	Isopropyl alcohol	70923B	1
Hedinger / Noweda	Isopropyl alcohol	70959B	1
Hedinger / Noweda	Isopropyl alcohol	70977B	1
Hedinger / Phoenix Leip...	Isopropyl alcohol	70722B	1
Hedinger / Phönix (12.0...	Isopropyl alcohol	701123B	1
Hedinger / Phönix	Isopropyl alcohol	701035B	2
Hedinger / Phönix	Isopropyl alcohol	701054B	1
Hedinger / Phönix	Isopropyl alcohol	701065B	1
Hedinger / Phönix	Isopropyl alcohol	701073B	1
Hedinger / Phönix	Isopropyl alcohol	701105B	1
Hedinger / Phönix	Isopropyl alcohol	701123B	2
Hedinger / Phönix	Isopropyl alcohol	701287B	1
Hedinger / Phönix	Isopropyl alcohol	70994B	1
Hedinger / Phönix	Isopropyl alcohol	907948	1
Hedinger / Sana	Isopropyl alcohol	70748B	1
Hedinger / Sana	Isopropyl alcohol	70799B	1
Hedinger / Sana	Isopropyl alcohol	70881B	1
Hedinger / Sanacorp	Isopropyl alcohol	701114B	1
Hedinger / Sanacorp	Isopropyl alcohol	701136B	1
Hedinger / Sanacorp	Isopropyl alcohol	701169B	1
Hedinger / Sanacorp	Isopropyl alcohol	701193B	2
Hedinger / sanacorp	Isopropyl alcohol	701196B	1
Hedinger / sanacorp	Isopropyl alcohol	701218B	1
Hedinger / Sanacorp	Isopropyl alcohol	701218B	1
Hedinger / sanacorp	Isopropyl alcohol	701231B	1
Hedinger / Sanacorp	Isopropyl alcohol	701321B	1
Hedinger / Sanacorp	Isopropyl alcohol	70737B	1
Hedinger / Sanacorp	Isopropyl alcohol	707446B	1
Hedinger / Sanacorp	Isopropyl alcohol	70991B	1
Hedinger / Sanacorp	Isopropyl alcohol	71052B	1
Hedinger /Alliance Heal...	Isopropyl alcohol	701043B	3
Hedinger /Anzag	Isopropyl alcohol	701203B	1
Hedinger /Anzag	Isopropyl alcohol	70991B	3
Hedinger /Phoenix	Isopropyl alcohol	701073B	1
Hedinger /Sana	Isopropyl alcohol	70488B	1
Hedinger 1	Isopropyl alcohol	701156B	1
Hedinger 1	Isopropyl alcohol	701321B	4
Hedinger 15.04.2013 Spa...	Isopropyl alcohol	70511B	2
Hedinger Ahc	Isopropyl alcohol	701026B	1
Hedinger Ahc	Isopropyl alcohol	70969B	2
Hedinger Ahc	Isopropyl alcohol	70983B	1
Hedinger Gehe	Isopropyl alcohol	701043B	1
Hedinger Gehe	Isopropyl alcohol	70562B	1
Hedinger Gehe	Isopropyl alcohol	70673B	1
Hedinger GmbH & Co KG	Isopropyl alcohol	701212B	1
Hedinger GmbH & Co. KG	Isopropyl alcohol	701043B	1
Hedinger GmbH & Co. KG	Isopropyl alcohol	701113B	1
Hedinger GmbH & Co. KG	Isopropyl alcohol	7011868	1
Hedinger GmbH & Co. KG	Isopropyl alcohol	701212B	1
Hedinger GmbH &Co KG	Isopropyl alcohol	701043B	1
Hedinger GmbH &Co KG	Isopropyl alcohol	701071B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger GmbH &Co KG	Isopropyl alcohol	70977B	1
Hedinger GmbH und Co KG	Isopropyl alcohol	701196B	1
Hedinger GmbH&Co. KG	Isopropyl alcohol	701218B	1
Hedinger GmbH/Alliance ...	Isopropyl alcohol	701182B	1
Hedinger GmbH/Noweda	Isopropyl alcohol	7011898	1
Hedinger GmbH	Isopropyl alcohol	16310612	1
Hedinger GmbH	Isopropyl alcohol	701173B	1
Hedinger GmbH	Isopropyl alcohol	70729B	1
Hedinger GmbH	Isopropyl alcohol	70889B	1
Hedinger GmbH	Isopropyl alcohol	70936B	1
Hedinger Jenne	Isopropyl alcohol	701065B	1
Hedinger Jenne	Isopropyl alcohol	70478B	1
Hedinger Jenne	Isopropyl alcohol	70545B	1
Hedinger Jenne	Isopropyl alcohol	706938	1
Hedinger Jenne	Isopropyl alcohol	70720B	1
Hedinger Jenne	Isopropyl alcohol	709538	1
Hedinger Noweda	Isopropyl alcohol	7010938	1
Hedinger Noweda	Isopropyl alcohol	7012208	1
Hedinger Noweda	Isopropyl alcohol	701220B	1
Hedinger Phönix	Isopropyl alcohol	70991B	1
Hedinger Sanacorp	Isopropyl alcohol	701073B	1
Hedinger Sanacorp	Isopropyl alcohol	701173B	2
Hedinger Sanacorp	Isopropyl alcohol	701231B	1
Hedinger Sanacorp	Isopropyl alcohol	701282B	1
Hedinger Sanacorp	Isopropyl alcohol	70737B	1
Hedinger Sanacorp	Isopropyl alcohol	70835B	1
Hedinger Sanacorp	Isopropyl alcohol	70862B	1
Hedinger Sanacorp	Isopropyl alcohol	70931B(I)	1
Hedinger Sanacorp	Isopropyl alcohol	70931B(II)	2
Hedinger über Noweda	Isopropyl alcohol	70439B	1
Hedinger über Noweda	Isopropyl alcohol	701189B	1
Hedinger(Gehe)	Isopropyl alcohol	70573B	1
Hedinger, Heiligenwiese...	Isopropyl alcohol	70471B	1
Hedinger, Heiligenwiese...	Isopropyl alcohol	70519B	1
Hedinger, Kehr /08.02.2...	Isopropyl alcohol	701093B	1
Hedinger, Noweda	Isopropyl alcohol	7474907	1
Hedinger, Sanacorp	Isopropyl alcohol	701136B	1
Hedinger/ AHD	Isopropyl alcohol	701043B	1
Hedinger/ AHD	Isopropyl alcohol	701073B	1
Hedinger/ AHD	Isopropyl alcohol	70788B	1
Hedinger/ AHD	Isopropyl alcohol	70947B	1
Hedinger/ AHD	Isopropyl alcohol	70991B	1
Hedinger/ Alliance	Isopropyl alcohol	701026B	1
Hedinger/ Alliance	Isopropyl alcohol	701052B	1
Hedinger/ Alliance	Isopropyl alcohol	701193B	1
Hedinger/ Alliance	Isopropyl alcohol	701204B	1
Hedinger/ Alliance	Isopropyl alcohol	701212B	1
Hedinger/ Alliance	Isopropyl alcohol	70875B	1
Hedinger/ Anzag	Isopropyl alcohol	156(0701248B)	1
Hedinger/ Anzag	Isopropyl alcohol	7011968	1
Hedinger/ Anzag	Isopropyl alcohol	701196B	1
Hedinger/ Anzag	Isopropyl alcohol	70120-48	1
Hedinger/ Anzag	Isopropyl alcohol	70492B	1
Hedinger/ Anzag	Isopropyl alcohol	706388	1
Hedinger/ Anzag	Isopropyl alcohol	70892B	1
Hedinger/ E&J	Isopropyl alcohol	70947B	1
Hedinger/ Fiebig	Isopropyl alcohol	701233B	1
Hedinger/ Gehe	Isopropyl alcohol	701026B	1
Hedinger/ Gehe	Isopropyl alcohol	701031B	1
Hedinger/ Gehe	Isopropyl alcohol	701061B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/ Gehe	Isopropyl alcohol	701065B	1
Hedinger/ GEHE	Isopropyl alcohol	701073B	1
Hedinger/ GEHE	Isopropyl alcohol	701123B	1
Hedinger/ Gehe	Isopropyl alcohol	701139B	1
Hedinger/ GEHE	Isopropyl alcohol	701218B	1
Hedinger/ Gehe	Isopropyl alcohol	70444B	1
Hedinger/ GEHE	Isopropyl alcohol	706388	1
Hedinger/ Gehe	Isopropyl alcohol	70708B	2
Hedinger/ Gehe	Isopropyl alcohol	70835B	1
Hedinger/ Gehe	Isopropyl alcohol	70973B	1
Hedinger/ Gehe	Isopropyl alcohol	70977B	2
Hedinger/ Gehe	Isopropyl alcohol	70993B	1
Hedinger/ Ginkgo	Isopropyl alcohol	701164B	1
Hedinger/ Jenne	Isopropyl alcohol	220210(0701204B)	1
Hedinger/ Jenne	Isopropyl alcohol	701026B	1
Hedinger/ jenne	Isopropyl alcohol	70541B	1
Hedinger/ Jenne	Isopropyl alcohol	70595B	1
Hedinger/ Jenne	Isopropyl alcohol	70608B	1
Hedinger/ Jenne	Isopropyl alcohol	70620B	1
Hedinger/ Kehr	Isopropyl alcohol	701196B	1
Hedinger/ Kehr	Isopropyl alcohol	70703B	1
Hedinger/ Max Jenne Lüb...	Isopropyl alcohol	701136B	1
Hedinger/ Max Jenne Lüb...	Isopropyl alcohol	701204B	1
Hedinger/ Max Jenne Lüb...	Isopropyl alcohol	701212B	1
Hedinger/ N/ PZN:07474942	Isopropyl alcohol	70598B	1
Hedinger/ Noweda/ 02.04...	Isopropyl alcohol	701189B	6
Hedinger/ Noweda/ 09.04...	Isopropyl alcohol	701193B	3
Hedinger/ Noweda	Isopropyl alcohol		1
Hedinger/ Noweda	Isopropyl alcohol	701031B	2
Hedinger/ Noweda	Isopropyl alcohol	701043B	1
Hedinger/ Noweda	Isopropyl alcohol	701054B	1
Hedinger/ Noweda	Isopropyl alcohol	7011056B	1
Hedinger/ Noweda	Isopropyl alcohol	701173B	1
Hedinger/ Noweda	Isopropyl alcohol	701201B	1
Hedinger/ Noweda	Isopropyl alcohol	701287B	1
Hedinger/ Noweda	Isopropyl alcohol	70517B	1
Hedinger/ Noweda	Isopropyl alcohol	70520B	1
Hedinger/ Noweda	Isopropyl alcohol	70555B	1
Hedinger/ Noweda	Isopropyl alcohol	70627B	2
Hedinger/ Noweda	Isopropyl alcohol	70675B	1
Hedinger/ Noweda	Isopropyl alcohol	70685B	1
Hedinger/ Noweda	Isopropyl alcohol	70693B	1
Hedinger/ Noweda	Isopropyl alcohol	70748b	1
Hedinger/ Noweda	Isopropyl alcohol	70771B	1
Hedinger/ Noweda	Isopropyl alcohol	70799B	1
Hedinger/ Noweda	Isopropyl alcohol	70818B	1
Hedinger/ Noweda	Isopropyl alcohol	70835B	1
Hedinger/ Noweda	Isopropyl alcohol	70853B	1
Hedinger/ Noweda	Isopropyl alcohol	70884B	1
Hedinger/ Noweda	Isopropyl alcohol	70889B	1
Hedinger/ Noweda	Isopropyl alcohol	70943B	1
Hedinger/ Noweda	Isopropyl alcohol	70957B	2
Hedinger/ Noweda	Isopropyl alcohol	70959B	1
Hedinger/ Noweda	Isopropyl alcohol	70973B	1
Hedinger/ Noweda	Isopropyl alcohol	70977B	1
Hedinger/ Otto Geilenki...	Isopropyl alcohol	701325B	1
Hedinger/ Phoenix / 04....	Isopropyl alcohol	70809b	1
Hedinger/ Phoenix	Isopropyl alcohol	7011898	1
Hedinger/ Phoenix	Isopropyl alcohol	701218B	1
Hedinger/ Phoenix	Isopropyl alcohol	70898B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/ Phönix	Isopropyl alcohol	701043B	1
Hedinger/ Phönix	Isopropyl alcohol	701073B	1
Hedinger/ Sanacorp Lüb...	Isopropyl alcohol	701133B	1
Hedinger/ Sanacorp	Isopropyl alcohol	701011B	1
Hedinger/ Sanacorp	Isopropyl alcohol	701105B	1
Hedinger/ Sanacorp	Isopropyl alcohol	701145B	1
Hedinger/ Sanacorp	Isopropyl alcohol	701210B	1
Hedinger/ Sanacorp	Isopropyl alcohol	701220B	1
Hedinger/ Sanacorp	Isopropyl alcohol	70545B	1
Hedinger/ Spangro.	Isopropyl alcohol	701186B	1
Hedinger/A	Isopropyl alcohol	701186B	1
Hedinger/A	Isopropyl alcohol	701189B	2
Hedinger/A	Isopropyl alcohol	701193B	1
Hedinger/AHCA	Isopropyl alcohol	701145B	1
Hedinger/AHD	Isopropyl alcohol	7010738	1
Hedinger/AHD	Isopropyl alcohol	701073B	1
Hedinger/AHD	Isopropyl alcohol	701078B	1
Hedinger/AHD	Isopropyl alcohol	7011058	1
Hedinger/AHD	Isopropyl alcohol	701107B	1
Hedinger/AHD	Isopropyl alcohol	701114B	1
Hedinger/AHD	Isopropyl alcohol	701123B	1
Hedinger/AHD	Isopropyl alcohol	701145B	2
HEDINGER/AHD	Isopropyl alcohol	701156B	1
Hedinger/AHD	Isopropyl alcohol	701169B	1
HEDINGER/AHD	Isopropyl alcohol	701169B	3
Hedinger/AHD	Isopropyl alcohol	701173B	1
Hedinger/AHD	Isopropyl alcohol	701182B	2
Hedinger/AHD	Isopropyl alcohol	701199B	1
Hedinger/AHD	Isopropyl alcohol	701212B	2
HEDINGER/AHD	Isopropyl alcohol	701218B	1
Hedinger/AHD	Isopropyl alcohol	701262B	1
Hedinger/AHD	Isopropyl alcohol	701284B	1
Hedinger/AHD	Isopropyl alcohol	701305B	1
Hedinger/AHD	Isopropyl alcohol	70507B	1
Hedinger/AHD	Isopropyl alcohol	70527B	1
Hedinger/AHD	Isopropyl alcohol	70532B	1
Hedinger/AHD	Isopropyl alcohol	705408	1
Hedinger/AHD	Isopropyl alcohol	70574B	1
Hedinger/AHD	Isopropyl alcohol	70690B	1
Hedinger/AHD	Isopropyl alcohol	70737B	3
Hedinger/AHD	Isopropyl alcohol	70748B	2
Hedinger/AHD	Isopropyl alcohol	70768B	3
Hedinger/AHD	Isopropyl alcohol	70771B	1
Hedinger/AHD	Isopropyl alcohol	707888	1
Hedinger/AHD	Isopropyl alcohol	70788B	2
Hedinger/AHD	Isopropyl alcohol	70858B	1
Hedinger/AHD	Isopropyl alcohol	70915B	1
Hedinger/AHD	Isopropyl alcohol	70931B	2
Hedinger/AHD	Isopropyl alcohol	709838	1
Hedinger/Allia	Isopropyl alcohol	701164B	1
Hedinger/Allia	Isopropyl alcohol	701262B	1
Hedinger/Allia	Isopropyl alcohol	701287B	1
Hedinger/Alliance Haelt...	Isopropyl alcohol	70898B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	701035B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	701043B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	701071B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	701305B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	70503B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	70768B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	70858B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Alliance Healt...	Isopropyl alcohol	70908B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	70936B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	70941B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	70982B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	701186B	1
Hedinger/Alliance Healt...	Isopropyl alcohol	701201B	1
Hedinger/Alliance	Isopropyl alcohol		1
Hedinger/Alliance	Isopropyl alcohol	701026B	1
Hedinger/Alliance	Isopropyl alcohol	701099B	1
Hedinger/Alliance	Isopropyl alcohol	701233B	1
Hedinger/Alliance	Isopropyl alcohol	701244B	1
Hedinger/Alliance	Isopropyl alcohol	70818B	1
Hedinger/Alliance	Isopropyl alcohol	70846B	1
Hedinger/Alliance	Isopropyl alcohol	70870B	1
Hedinger/Alliance	Isopropyl alcohol	70991B	1
Hedinger/AllianceHealth	Isopropyl alcohol	70889B	1
Hedinger/Anzag 25.05.20	Isopropyl alcohol	701196B	1
Hedinger/Anzag 27.02.2012	Isopropyl alcohol	70417B	1
Hedinger/Anzag	Isopropyl alcohol	701015B	1
Hedinger/Anzag	Isopropyl alcohol	701061B	2
Hedinger/Anzag	Isopropyl alcohol	701113B	1
Hedinger/Anzag	Isopropyl alcohol	701114B	1
Hedinger/Anzag	Isopropyl alcohol	701123B	1
Hedinger/Anzag	Isopropyl alcohol	701149B	4
Hedinger/Anzag	Isopropyl alcohol	701156B	4
Hedinger/Anzag	Isopropyl alcohol	701175B	1
Hedinger/Anzag	Isopropyl alcohol	701181B	2
Hedinger/Anzag	Isopropyl alcohol	701210B	2
Hedinger/Anzag	Isopropyl alcohol	701214B	1
Hedinger/Anzag	Isopropyl alcohol	70471B	1
Hedinger/Anzag	Isopropyl alcohol	705198	1
Hedinger/Anzag	Isopropyl alcohol	70519B	1
Hedinger/Anzag	Isopropyl alcohol	70545B	1
Hedinger/Anzag	Isopropyl alcohol	70553B	1
Hedinger/Anzag	Isopropyl alcohol	705728	1
hedinger/anzag	Isopropyl alcohol	705838	1
Hedinger/Anzag	Isopropyl alcohol	70608B	1
Hedinger/Anzag	Isopropyl alcohol	70627B	1
Hedinger/Anzag	Isopropyl alcohol	70643B	1
Hedinger/Anzag	Isopropyl alcohol	70675B	1
Hedinger/Anzag	Isopropyl alcohol	70685B	1
Hedinger/Anzag	Isopropyl alcohol	70703B	1
Hedinger/Anzag	Isopropyl alcohol	70736B	1
Hedinger/Anzag	Isopropyl alcohol	70737B	2
Hedinger/Anzag	Isopropyl alcohol	70768B	2
Hedinger/Anzag	Isopropyl alcohol	70788B	2
Hedinger/Anzag	Isopropyl alcohol	70853B	1
Hedinger/Anzag	Isopropyl alcohol	70866B	1
Hedinger/Anzag	Isopropyl alcohol	70906B	1
Hedinger/Anzag	Isopropyl alcohol	70977B	1
Hedinger/Anzag	Isopropyl alcohol	70982B	1
Hedinger/Anzag	Isopropyl alcohol	709918	1
Hedinger/Ebert&Jacobi	Isopropyl alcohol	70620B	1
Hedinger/Ebert&Jacobi	Isopropyl alcohol	70627B	2
Hedinger/Ebert	Isopropyl alcohol	701031B	1
Hedinger/Ebert	Isopropyl alcohol	701065B	1
Hedinger/Ebert	Isopropyl alcohol	701073B	2
Hedinger/Ebert	Isopropyl alcohol	701105B	3
Hedinger/Ebert	Isopropyl alcohol	701136B	1
Hedinger/Ebert	Isopropyl alcohol	701156B	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Ebert	Isopropyl alcohol	70734B	1
Hedinger/Ebert	Isopropyl alcohol	70882B	1
Hedinger/Ebert	Isopropyl alcohol	70898B	1
Hedinger/Ebert	Isopropyl alcohol	70943B	3
Hedinger/Ebert	Isopropyl alcohol	70977B	1
Hedinger/Ebert	Isopropyl alcohol	70991B	1
Hedinger/Ebetr	Isopropyl alcohol	701052B	2
Hedinger/Ebetr	Isopropyl alcohol	70977B	1
Hedinger/Ebetr	Isopropyl alcohol	709994B	2
Hedinger/Fiebig 09.06.2...	Isopropyl alcohol	701203B	1
Hedinger/Fiebig 29.06.2...	Isopropyl alcohol	701248B	1
Hedinger/Fiebig 30.12.2...	Isopropyl alcohol	701199B	1
Hedinger/Fiebig	Isopropyl alcohol	701031B	1
Hedinger/Fiebig	Isopropyl alcohol	701114B	1
Hedinger/Fiebig	Isopropyl alcohol	701156B	1
Hedinger/Fiebig	Isopropyl alcohol	701181B	2
Hedinger/Fiebig	Isopropyl alcohol	701182B	1
Hedinger/Fiebig	Isopropyl alcohol	701220B	1
Hedinger/Fiebig	Isopropyl alcohol	70729B	1
Hedinger/Fiebig	Isopropyl alcohol	70959B	1
Hedinger/G	Isopropyl alcohol	70994B	1
Hedinger/gehe/38,69	Isopropyl alcohol	701148	1
Hedinger/GEHE	Isopropyl alcohol	1514Q1079	1
Hedinger/Gehe	Isopropyl alcohol	701006B	2
Hedinger/Gehe	Isopropyl alcohol	701015B	1
Hedinger/Gehe	Isopropyl alcohol	701031B	4
Hedinger/Gehe	Isopropyl alcohol	701035B	1
Hedinger/Gehe	Isopropyl alcohol	701065B	3
Hedinger/Gehe	Isopropyl alcohol	701073B	1
Hedinger/Gehe	Isopropyl alcohol	701078B	1
Hedinger/Gehe	Isopropyl alcohol	701093B	1
Hedinger/Gehe	Isopropyl alcohol	701099B	2
Hedinger/Gehe	Isopropyl alcohol	701107B	1
Hedinger/Gehe	Isopropyl alcohol	7011148	1
Hedinger/Gehe	Isopropyl alcohol	701123B	2
Hedinger/Gehe	Isopropyl alcohol	701136B	2
Hedinger/Gehe	Isopropyl alcohol	701139B	1
Hedinger/Gehe	Isopropyl alcohol	701148B	1
Hedinger/Gehe	Isopropyl alcohol	701149B	1
Hedinger/Gehe	Isopropyl alcohol	701169B	3
Hedinger/Gehe	Isopropyl alcohol	701173B	1
Hedinger/Gehe	Isopropyl alcohol	701175B	2
Hedinger/Gehe	Isopropyl alcohol	701182B	1
Hedinger/GEHE	Isopropyl alcohol	701186B	1
Hedinger/Gehe	Isopropyl alcohol	701194B	2
Hedinger/GEHE	Isopropyl alcohol	701194B	2
Hedinger/Gehe	Isopropyl alcohol	701196B	1
Hedinger/Gehe	Isopropyl alcohol	701201B	1
Hedinger/Gehe	Isopropyl alcohol	701204B	1
Hedinger/Gehe	Isopropyl alcohol	701212B	2
hedinger/Gehe	Isopropyl alcohol	7012148	1
Hedinger/Gehe	Isopropyl alcohol	7012148	1
hedinger/gehe	Isopropyl alcohol	7012188	1
Hedinger/Gehe	Isopropyl alcohol	7012188	2
Hedinger/Gehe	Isopropyl alcohol	701218B	5
Hedinger/Gehe	Isopropyl alcohol	701220B	1
Hedinger/Gehe	Isopropyl alcohol	7012318	1
Hedinger/Gehe	Isopropyl alcohol	701244B	2
Hedinger/Gehe	Isopropyl alcohol	701282B	1
Hedinger/Gehe	Isopropyl alcohol	701308B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Gehe	Isopropyl alcohol	70478B	1
Hedinger/Gehe	Isopropyl alcohol	70481B	1
Hedinger/Gehe	Isopropyl alcohol	70492B	1
Hedinger/Gehe	Isopropyl alcohol	704988	1
Hedinger/Gehe	Isopropyl alcohol	70501B	1
Hedinger/Gehe	Isopropyl alcohol	70505B	1
Hedinger/Gehe	Isopropyl alcohol	70507B	1
Hedinger/Gehe	Isopropyl alcohol	70527B	1
Hedinger/Gehe	Isopropyl alcohol	70532B	1
Hedinger/Gehe	Isopropyl alcohol	70540B	1
Hedinger/Gehe	Isopropyl alcohol	70553B	1
Hedinger/Gehe	Isopropyl alcohol	70562B	1
Hedinger/Gehe	Isopropyl alcohol	70581B	1
Hedinger/Gehe	Isopropyl alcohol	70584B	1
Hedinger/Gehe	Isopropyl alcohol	70587B	1
Hedinger/Gehe	Isopropyl alcohol	70598B	2
Hedinger/Gehe	Isopropyl alcohol	70603B	1
Hedinger/Gehe	Isopropyl alcohol	70607B	1
Hedinger/Gehe	Isopropyl alcohol	70627B	2
Hedinger/Gehe	Isopropyl alcohol	70638B	1
Hedinger/Gehe	Isopropyl alcohol	70659B	2
Hedinger/Gehe	Isopropyl alcohol	70663B	1
Hedinger/Gehe	Isopropyl alcohol	70666B	1
Hedinger/Gehe	Isopropyl alcohol	70668B	1
Hedinger/Gehe	Isopropyl alcohol	70671b	1
Hedinger/Gehe	Isopropyl alcohol	70675B	1
Hedinger/Gehe	Isopropyl alcohol	70690B	1
Hedinger/Gehe	Isopropyl alcohol	70693B	1
Hedinger/Gehe	Isopropyl alcohol	70696B	1
Hedinger/Gehe	Isopropyl alcohol	70701B	1
Hedinger/Gehe	Isopropyl alcohol	70703B	4
Hedinger/Gehe	Isopropyl alcohol	70715B	2
Hedinger/Gehe	Isopropyl alcohol	70723B	2
Hedinger/Gehe	Isopropyl alcohol	707308	1
Hedinger/Gehe	Isopropyl alcohol	70730B	5
Hedinger/Gehe	Isopropyl alcohol	70736B	2
Hedinger/Gehe	Isopropyl alcohol	70737B	1
Hedinger/Gehe	Isopropyl alcohol	70739B	1
Hedinger/Gehe	Isopropyl alcohol	70748B	2
Hedinger/Gehe	Isopropyl alcohol	70755B	2
Hedinger/Gehe	Isopropyl alcohol	70763B	1
Hedinger/Gehe	Isopropyl alcohol	70767B	2
Hedinger/Gehe	Isopropyl alcohol	7076B	1
Hedinger/Gehe	Isopropyl alcohol	70771B	1
Hedinger/Gehe	Isopropyl alcohol	70783B	1
Hedinger/Gehe	Isopropyl alcohol	70796B	1
Hedinger/Gehe	Isopropyl alcohol	70799B	1
Hedinger/Gehe	Isopropyl alcohol	70804B	1
Hedinger/Gehe	Isopropyl alcohol	70809B	1
Hedinger/Gehe	Isopropyl alcohol	70816B	1
Hedinger/Gehe	Isopropyl alcohol	70818B	3
Hedinger/Gehe	Isopropyl alcohol	70825B	1
Hedinger/Gehe	Isopropyl alcohol	70858B	3
Hedinger/Gehe	Isopropyl alcohol	70870B	1
Hedinger/Gehe	Isopropyl alcohol	70875B	2
Hedinger/Gehe	Isopropyl alcohol	7087B	1
Hedinger/Gehe	Isopropyl alcohol	70882B	2
Hedinger/Gehe	Isopropyl alcohol	70889B	1
Hedinger/Gehe	Isopropyl alcohol	70892B	2
Hedinger/Gehe	Isopropyl alcohol	70898B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Gehe	Isopropyl alcohol	70908B	1
Hedinger/Gehe	Isopropyl alcohol	70918B	2
Hedinger/Gehe	Isopropyl alcohol	70931B	3
Hedinger/Gehe	Isopropyl alcohol	70936B	1
Hedinger/Gehe	Isopropyl alcohol	70941B	4
HEDINGER/Gehe	Isopropyl alcohol	709478	1
Hedinger/Gehe	Isopropyl alcohol	70957B	1
Hedinger/Gehe	Isopropyl alcohol	70959B	1
Hedinger/Gehe	Isopropyl alcohol	70973B	1
Hedinger/Gehe	Isopropyl alcohol	70983B	1
Hedinger/Gehe	Isopropyl alcohol	70994B	4
Hedinger/Geibo	Isopropyl alcohol	701105B	1
Hedinger/Geilenkirchen	Isopropyl alcohol	701114B	1
Hedinger/Geilenkirchen	Isopropyl alcohol	706388	1
Hedinger/Hedinger	Isopropyl alcohol	701173B	1
Hedinger/Hedinger	Isopropyl alcohol	701186B	2
Hedinger/Holdermann 30....	Isopropyl alcohol	70444B	1
Hedinger/Holdermann	Isopropyl alcohol	70607B	1
Hedinger/Holdermann	Isopropyl alcohol	70881B	1
Hedinger/Holdermann	Isopropyl alcohol	70898B	1
Hedinger/Jenne 31.10.2014	Isopropyl alcohol	706388	1
Hedinger/Jenne/12.01.18	Isopropyl alcohol	70977B	1
Hedinger/Jenne	Isopropyl alcohol	701139B	1
Hedinger/Jenne	Isopropyl alcohol	701189B	1
Hedinger/Jenne	Isopropyl alcohol	701194B	2
Hedinger/Jenne	Isopropyl alcohol	701204B	3
Hedinger/Jenne	Isopropyl alcohol	701212B	1
Hedinger/Jenne	Isopropyl alcohol	70525B	1
Hedinger/Jenne	Isopropyl alcohol	70559B	1
Hedinger/Kehr	Isopropyl alcohol	701093B	2
Hedinger/Kehr	Isopropyl alcohol	70675B	1
Hedinger/Kehr	Isopropyl alcohol	7073B	1
Hedinger/Krieger	Isopropyl alcohol	701031B	1
Hedinger/Krieger	Isopropyl alcohol	701114B	2
Hedinger/Krieger	Isopropyl alcohol	701214B	1
Hedinger/Krieger	Isopropyl alcohol	708358	1
Hedinger/Krieger	Isopropyl alcohol	70918B	1
Hedinger/L10	Isopropyl alcohol	7010158	1
Hedinger/L10	Isopropyl alcohol	7011868	1
HEDINGER/N/1.06.13/PZN...	Isopropyl alcohol	70527b	1
Hedinger/N/PZN:07474942	Isopropyl alcohol	70559B	1
Hedinger/N	Isopropyl alcohol	70675B	1
Hedinger/N	Isopropyl alcohol	70818B	1
hedinger/noveda/anzag	Isopropyl alcohol	701194B	1
Hedinger/Noveda	Isopropyl alcohol	701054B	1
Hedinger/Nowda	Isopropyl alcohol	701073B	2
Hedinger/Noweda 11.01....	Isopropyl alcohol	701233B	1
Hedinger/Noweda	Isopropyl alcohol	4716M-01079	1
Hedinger/Noweda	Isopropyl alcohol	4916U-01079	1
Hedinger/Noweda	Isopropyl alcohol	701006B	2
Hedinger/Noweda	Isopropyl alcohol	701011B	1
Hedinger/noweda	Isopropyl alcohol	701015B	2
Hedinger/Noweda	Isopropyl alcohol	701015B	1
Hedinger/Noweda	Isopropyl alcohol	701026B	3
Hedinger/noweda	Isopropyl alcohol	701031B	1
Hedinger/Noweda	Isopropyl alcohol	701031B	2
Hedinger/Noweda	Isopropyl alcohol	7010358	1
Hedinger/Noweda	Isopropyl alcohol	701035B	2
Hedinger/noweda	Isopropyl alcohol	701043B	1
Hedinger/Noweda	Isopropyl alcohol	701043B	9

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/noweda	Isopropyl alcohol	701054B	1
Hedinger/Noweda	Isopropyl alcohol	701061B	1
Hedinger/Noweda	Isopropyl alcohol	701065B	1
Hedinger/Noweda	Isopropyl alcohol	701071B	3
Hedinger/Noweda	Isopropyl alcohol	7010738	1
Hedinger/Noweda	Isopropyl alcohol	701078B	1
Hedinger/Noweda	Isopropyl alcohol	7010818	1
Hedinger/Noweda	Isopropyl alcohol	701099B	2
Hedinger/noweda	Isopropyl alcohol	701105B	1
Hedinger/Noweda	Isopropyl alcohol	701105B	1
Hedinger/Noweda	Isopropyl alcohol	701107B	1
Hedinger/Noweda	Isopropyl alcohol	701114B	1
Hedinger/Noweda	Isopropyl alcohol	701123B	2
Hedinger/Noweda	Isopropyl alcohol	7011338	1
Hedinger/Noweda	Isopropyl alcohol	701133B	1
Hedinger/Noweda	Isopropyl alcohol	701136B	2
Hedinger/Noweda	Isopropyl alcohol	701139B	1
Hedinger/Noweda	Isopropyl alcohol	701148B	1
HEDINGER/NOWEDA	Isopropyl alcohol	701148B	1
Hedinger/Noweda	Isopropyl alcohol	701149B	2
Hedinger/Noweda	Isopropyl alcohol	701156B	1
HEDINGER/NOWEDA	Isopropyl alcohol	701156B	1
Hedinger/Noweda	Isopropyl alcohol	701158B	2
Hedinger/Noweda	Isopropyl alcohol	701164B	1
Hedinger/Noweda	Isopropyl alcohol	701182B	2
Hedinger/Noweda	Isopropyl alcohol	701188B	2
Hedinger/Noweda	Isopropyl alcohol	701193B	1
Hedinger/Noweda	Isopropyl alcohol	701194B	2
Hedinger/Noweda	Isopropyl alcohol	701199B	6
Hedinger/Noweda	Isopropyl alcohol	7011B6B	1
Hedinger/Noweda	Isopropyl alcohol	701201B	2
Hedinger/Noweda	Isopropyl alcohol	701203B	2
Hedinger/Noweda	Isopropyl alcohol	701204B	2
Hedinger/Noweda	Isopropyl alcohol	701212B	1
Hedinger/Noweda	Isopropyl alcohol	701214B	2
Hedinger/Noweda	Isopropyl alcohol	701233B	2
Hedinger/Noweda	Isopropyl alcohol	7012488	1
Hedinger/Noweda	Isopropyl alcohol	701262B	1
Hedinger/Noweda	Isopropyl alcohol	7012878	1
Hedinger/Noweda	Isopropyl alcohol	701287B	2
Hedinger/Noweda	Isopropyl alcohol	701308B	2
Hedinger/Noweda	Isopropyl alcohol	701321B	1
Hedinger/Noweda	Isopropyl alcohol	70457B	1
Hedinger/Noweda	Isopropyl alcohol	70465B	1
Hedinger/Noweda	Isopropyl alcohol	70519B	1
Hedinger/Noweda	Isopropyl alcohol	70520B	1
Hedinger/Noweda	Isopropyl alcohol	70540B	1
Hedinger/Noweda	Isopropyl alcohol	70545B	1
Hedinger/Noweda	Isopropyl alcohol	7054907	1
Hedinger/Noweda	Isopropyl alcohol	70565B	1
Hedinger/Noweda	Isopropyl alcohol	70584B	1
Hedinger/Noweda	Isopropyl alcohol	70603B	4
Hedinger/Noweda	Isopropyl alcohol	70620B	1
Hedinger/Noweda	Isopropyl alcohol	70627B	4
Hedinger/Noweda	Isopropyl alcohol	706388	1
Hedinger/Noweda	Isopropyl alcohol	70643B	1
Hedinger/Noweda	Isopropyl alcohol	70685B	3
Hedinger/Noweda	Isopropyl alcohol	70690B	2
Hedinger/Noweda	Isopropyl alcohol	707075B	1
Hedinger/Noweda	Isopropyl alcohol	70720B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Noweda	Isopropyl alcohol	70726B	1
Hedinger/Noweda	Isopropyl alcohol	70730B	1
Hedinger/Noweda	Isopropyl alcohol	70736B	1
Hedinger/Noweda	Isopropyl alcohol	70737B	1
Hedinger/Noweda	Isopropyl alcohol	70767B	1
Hedinger/Noweda	Isopropyl alcohol	707718	1
Hedinger/Noweda	Isopropyl alcohol	70788B	2
Hedinger/Noweda	Isopropyl alcohol	708188	1
Hedinger/Noweda	Isopropyl alcohol	70818B	4
Hedinger/Noweda	Isopropyl alcohol	70835B	3
Hedinger/Noweda	Isopropyl alcohol	70853B	2
Hedinger/Noweda	Isopropyl alcohol	70882b	1
Hedinger/Noweda	Isopropyl alcohol	70889B	2
Hedinger/Noweda	Isopropyl alcohol	70906B	2
Hedinger/Noweda	Isopropyl alcohol	709082B	1
Hedinger/Noweda	Isopropyl alcohol	70908B	1
hedinger/Noweda	Isopropyl alcohol	70918B	1
Hedinger/Noweda	Isopropyl alcohol	70922B	2
Hedinger/Noweda	Isopropyl alcohol	70941B	1
Hedinger/Noweda	Isopropyl alcohol	70947B	2
Hedinger/noweda	Isopropyl alcohol	70957B	1
Hedinger/Noweda	Isopropyl alcohol	70957B	1
Hedinger/Noweda	Isopropyl alcohol	70969B	1
Hedinger/Noweda	Isopropyl alcohol	70973B	1
Hedinger/Noweda	Isopropyl alcohol	70977B	4
Hedinger/Noweda	Isopropyl alcohol	70983B	1
Hedinger/Noweda	Isopropyl alcohol	70994B	2
hedinger/noweda	Isopropyl alcohol	CH0701175B	1
HEDINGER/OTTO Geilenkir...	Isopropyl alcohol	7012848	1
Hedinger/Otto	Isopropyl alcohol		1
Hedinger/Otto	Isopropyl alcohol	70581B	1
Hedinger/Phoenix	Isopropyl alcohol	20001912014	1
Hedinger/Phoenix	Isopropyl alcohol	700078B	1
Hedinger/Phoenix	Isopropyl alcohol	701006B	1
Hedinger/Phoenix	Isopropyl alcohol	701031B	1
Hedinger/Phoenix	Isopropyl alcohol	701035B	1
Hedinger/Phoenix	Isopropyl alcohol	701065B	2
Hedinger/Phoenix	Isopropyl alcohol	7010738	1
Hedinger/Phoenix	Isopropyl alcohol	701073B	2
Hedinger/Phoenix	Isopropyl alcohol	701093B	1
Hedinger/Phoenix	Isopropyl alcohol	701099B	1
Hedinger/Phoenix	Isopropyl alcohol	701105B	1
Hedinger/Phoenix	Isopropyl alcohol	7011138	1
Hedinger/Phoenix	Isopropyl alcohol	701123B	1
Hedinger/Phoenix	Isopropyl alcohol	701145B	1
Hedinger/Phoenix	Isopropyl alcohol	701148B	1
Hedinger/Phoenix	Isopropyl alcohol	701156B	3
Hedinger/Phoenix	Isopropyl alcohol	701164B	2
Hedinger/Phoenix	Isopropyl alcohol	701169B	1
Hedinger/Phoenix	Isopropyl alcohol	701173B	1
Hedinger/Phoenix	Isopropyl alcohol	701189B	1
Hedinger/Phoenix	Isopropyl alcohol	701201B	1
Hedinger/Phoenix	Isopropyl alcohol	701214B	1
Hedinger/Phoenix	Isopropyl alcohol	701218B	3
Hedinger/Phoenix	Isopropyl alcohol	701220B	1
Hedinger/Phoenix	Isopropyl alcohol	701231B	4
Hedinger/Phoenix	Isopropyl alcohol	701233B	1
Hedinger/Phoenix	Isopropyl alcohol	701258B	2
Hedinger/Phoenix	Isopropyl alcohol	701262B	2
Hedinger/Phoenix	Isopropyl alcohol	701284B	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Phoenix	Isopropyl alcohol	7013218	1
Hedinger/Phoenix	Isopropyl alcohol	70545B	2
Hedinger/Phoenix	Isopropyl alcohol	70578B	1
Hedinger/Phoenix	Isopropyl alcohol	70659B	2
Hedinger/Phoenix	Isopropyl alcohol	70734B	1
Hedinger/phoenix	Isopropyl alcohol	707488	1
Hedinger/Phoenix	Isopropyl alcohol	70794B	1
Hedinger/Phoenix	Isopropyl alcohol	70799B	1
Hedinger/Phoenix	Isopropyl alcohol	70837B	3
Hedinger/Phoenix	Isopropyl alcohol	70889B	1
Hedinger/Phoenix	Isopropyl alcohol	70908B	1
Hedinger/Phoenix	Isopropyl alcohol	70969B	2
Hedinger/Phoenix	Isopropyl alcohol	70973B	1
Hedinger/Phoenix	Isopropyl alcohol	709948	1
Hedinger/Phoenix	Isopropyl alcohol	70994B	3
Hedinger/Phönix	Isopropyl alcohol	701043B	1
Hedinger/Phönix	Isopropyl alcohol	701052B	1
Hedinger/Phönix	Isopropyl alcohol	701065B	1
Hedinger/Phönix	Isopropyl alcohol	701073B	1
Hedinger/Phönix	Isopropyl alcohol	701093B	1
Hedinger/Phönix	Isopropyl alcohol	701105B	1
Hedinger/Phönix	Isopropyl alcohol	7011148	1
Hedinger/Phönix	Isopropyl alcohol	701123B	1
Hedinger/Phönix	Isopropyl alcohol	701133B	1
Hedinger/Phönix	Isopropyl alcohol	7011369B	1
Hedinger/Phönix	Isopropyl alcohol	701148B	1
Hedinger/Phönix	Isopropyl alcohol	701156B	2
Hedinger/Phönix	Isopropyl alcohol	701189B	1
Hedinger/Phönix	Isopropyl alcohol	701214B	1
Hedinger/Phönix	Isopropyl alcohol	701218B	1
Hedinger/Phönix	Isopropyl alcohol	701231B	1
Hedinger/Phönix	Isopropyl alcohol	701233B	1
Hedinger/Phönix	Isopropyl alcohol	701258B	1
Hedinger/Phönix	Isopropyl alcohol	701282B	1
Hedinger/Phönix	Isopropyl alcohol	70385B	1
Hedinger/Phönix	Isopropyl alcohol	70520B	1
Hedinger/Phönix	Isopropyl alcohol	70536B	1
Hedinger/Phönix	Isopropyl alcohol	70565B	3
Hedinger/Phönix	Isopropyl alcohol	70598B	1
Hedinger/Phönix	Isopropyl alcohol	70607B	2
Hedinger/Phönix	Isopropyl alcohol	70627B	1
Hedinger/Phönix	Isopropyl alcohol	70643B	1
Hedinger/Phönix	Isopropyl alcohol	706808	1
Hedinger/Phönix	Isopropyl alcohol	70680B	1
Hedinger/Phönix	Isopropyl alcohol	70715B	2
Hedinger/Phönix	Isopropyl alcohol	70723B	1
Hedinger/Phönix	Isopropyl alcohol	70748B	1
Hedinger/Phönix	Isopropyl alcohol	70768B	2
Hedinger/Phönix	Isopropyl alcohol	70771B	1
Hedinger/Phönix	Isopropyl alcohol	70783B	1
Hedinger/Phönix	Isopropyl alcohol	70809B	1
Hedinger/Phönix	Isopropyl alcohol	70825B	1
Hedinger/Phönix	Isopropyl alcohol	70846B	1
Hedinger/Phönix	Isopropyl alcohol	70858B	2
Hedinger/Phönix	Isopropyl alcohol	70892B	1
Hedinger/Phönix	Isopropyl alcohol	709473B	1
Hedinger/Phönix	Isopropyl alcohol	70969B	1
Hedinger/Phönix	Isopropyl alcohol	70977B	1
Hedinger/Sana EK: EUR 72,...	Isopropyl alcohol	701073B	1
Hedinger/Sana	Isopropyl alcohol	701210B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Sana	Isopropyl alcohol	701220B	1
Hedinger/Sana	Isopropyl alcohol	701276B	1
Hedinger/Sana	Isopropyl alcohol	70663B	1
Hedinger/Sana	Isopropyl alcohol	70881B	1
Hedinger/Sana	Isopropyl alcohol	70915B	1
Hedinger/Sana	Isopropyl alcohol	70943B	1
Hedinger/Sanacorp	Isopropyl alcohol		2
Hedinger/Sanacorp	Isopropyl alcohol	2309I/01079	1
Hedinger/Sanacorp	Isopropyl alcohol	53718	1
Hedinger/Sanacorp	Isopropyl alcohol	701020B	2
Hedinger/Sanacorp	Isopropyl alcohol	701026B	4
Hedinger/Sanacorp	Isopropyl alcohol	701031B	4
Hedinger/Sanacorp	Isopropyl alcohol	7010438	1
Hedinger/Sanacorp	Isopropyl alcohol	701043B	4
Hedinger/Sanacorp	Isopropyl alcohol	701052B	2
Hedinger/Sanacorp	Isopropyl alcohol	701054B	2
Hedinger/Sanacorp	Isopropyl alcohol	7010618	1
Hedinger/Sanacorp	Isopropyl alcohol	701061B	1
Hedinger/Sanacorp	Isopropyl alcohol	701065B	1
Hedinger/Sanacorp	Isopropyl alcohol	701073B	1
Hedinger/Sanacorp	Isopropyl alcohol	701078B	2
Hedinger/Sanacorp	Isopropyl alcohol	701081B	1
Hedinger/Sanacorp	Isopropyl alcohol	701093B	1
Hedinger/Sanacorp	Isopropyl alcohol	701107B	1
Hedinger/Sanacorp	Isopropyl alcohol	701114B	7
Hedinger/Sanacorp	Isopropyl alcohol	701133B	1
Hedinger/Sanacorp	Isopropyl alcohol	701136B	1
Hedinger/Sanacorp	Isopropyl alcohol	7011498	1
Hedinger/sanacorp	Isopropyl alcohol	701156B	1
Hedinger/Sanacorp	Isopropyl alcohol	701156B	1
Hedinger/Sanacorp	Isopropyl alcohol	701158B	2
Hedinger/Sanacorp	Isopropyl alcohol	701164B	1
Hedinger/Sanacorp	Isopropyl alcohol	701169B	3
HEDINGER/Sanacorp	Isopropyl alcohol	701182B	1
Hedinger/Sanacorp	Isopropyl alcohol	701188B	2
Hedinger/Sanacorp	Isopropyl alcohol	701189B	5
Hedinger/Sanacorp	Isopropyl alcohol	701194B	1
Hedinger/Sanacorp	Isopropyl alcohol	701196B	1
Hedinger/Sanacorp	Isopropyl alcohol	701201B	1
Hedinger/Sanacorp	Isopropyl alcohol	701203B	1
Hedinger/Sanacorp	Isopropyl alcohol	701210B	1
Hedinger/Sanacorp	Isopropyl alcohol	701212B	1
Hedinger/Sanacorp	Isopropyl alcohol	701214B	2
Hedinger/Sanacorp	Isopropyl alcohol	701218B	1
Hedinger/Sanacorp	Isopropyl alcohol	701220B	2
Hedinger/Sanacorp	Isopropyl alcohol	701231B	1
Hedinger/Sanacorp	Isopropyl alcohol	701244B	1
Hedinger/Sanacorp	Isopropyl alcohol	701258B	1
Hedinger/sanacorp	Isopropyl alcohol	701290B	1
Hedinger/Sanacorp	Isopropyl alcohol	701334B	1
Hedinger/Sanacorp	Isopropyl alcohol	70176B	1
Hedinger/Sanacorp	Isopropyl alcohol	70476B	2
Hedinger/Sanacorp	Isopropyl alcohol	70519B	1
Hedinger/Sanacorp	Isopropyl alcohol	70540B	1
Hedinger/Sanacorp	Isopropyl alcohol	70541B	1
Hedinger/Sanacorp	Isopropyl alcohol	70553BH	1
Hedinger/Sanacorp	Isopropyl alcohol	70564B	1
Hedinger/Sanacorp	Isopropyl alcohol	70578B	3
Hedinger/Sanacorp	Isopropyl alcohol	70587B	1
Hedinger/Sanacorp	Isopropyl alcohol	70593B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Sanacorp	Isopropyl alcohol	70598B	3
Hedinger/Sanacorp	Isopropyl alcohol	70614B	3
Hedinger/Sanacorp	Isopropyl alcohol	70620B	1
Hedinger/Sanacorp	Isopropyl alcohol	70627B	3
Hedinger/Sanacorp	Isopropyl alcohol	70638B	1
Hedinger/Sanacorp	Isopropyl alcohol	70643B	1
Hedinger/Sanacorp	Isopropyl alcohol	70650B	1
Hedinger/Sanacorp	Isopropyl alcohol	70656B	1
Hedinger/Sanacorp	Isopropyl alcohol	70659B	1
Hedinger/Sanacorp	Isopropyl alcohol	70685B	1
Hedinger/Sanacorp	Isopropyl alcohol	70696B	2
Hedinger/Sanacorp	Isopropyl alcohol	70703B	1
Hedinger/Sanacorp	Isopropyl alcohol	70704B	1
Hedinger/Sanacorp	Isopropyl alcohol	70720B	1
Hedinger/Sanacorp	Isopropyl alcohol	70726B	2
Hedinger/Sanacorp	Isopropyl alcohol	70734B	2
Hedinger/Sanacorp	Isopropyl alcohol	70737B	1
Hedinger/sanacorp	Isopropyl alcohol	70739B	3
Hedinger/Sanacorp	Isopropyl alcohol	70742B	1
Hedinger/Sanacorp	Isopropyl alcohol	70755B	1
Hedinger/Sanacorp	Isopropyl alcohol	70762B	1
Hedinger/Sanacorp	Isopropyl alcohol	70763B	2
Hedinger/Sanacorp	Isopropyl alcohol	70767B	5
Hedinger/Sanacorp	Isopropyl alcohol	70771B	1
Hedinger/Sanacorp	Isopropyl alcohol	70777B	1
Hedinger/Sanacorp	Isopropyl alcohol	70788B	1
Hedinger/Sanacorp	Isopropyl alcohol	70818B	1
Hedinger/Sanacorp	Isopropyl alcohol	70835B	3
Hedinger/Sanacorp	Isopropyl alcohol	70879B	1
Hedinger/Sanacorp	Isopropyl alcohol	70892B	3
Hedinger/Sanacorp	Isopropyl alcohol	70896B	2
Hedinger/Sanacorp	Isopropyl alcohol	70915B	1
Hedinger/Sanacorp	Isopropyl alcohol	70923B	1
Hedinger/Sanacorp	Isopropyl alcohol	70936B	1
Hedinger/Sanacorp	Isopropyl alcohol	70977B	3
Hedinger/Sanacorp	Isopropyl alcohol	70982B	1
Hedinger/Sanacorp	Isopropyl alcohol	711258B	1
Hedinger/Sanacorp	Isopropyl alcohol	7685B	1
Hedinger/Sanacorp	Isopropyl alcohol	7701189B	1
Hedinger/Sanacorp6.5.2014	Isopropyl alcohol	70603B	1
Hedinger/Spangro	Isopropyl alcohol	701078B	1
Hedinger/Spangro	Isopropyl alcohol	701133B	1
Hedinger/Spangro	Isopropyl alcohol	701186B	1
Hedinger/VDL	Isopropyl alcohol	704788	1
Hedinger/VDL	Isopropyl alcohol	70884B	1
Hedinger	Isopropyl alcohol		2
hedinger	Isopropyl alcohol	105208	1
Hedinger	Isopropyl alcohol	1207211079	1
Hedinger	Isopropyl alcohol	1512211079	1
Hedinger	Isopropyl alcohol	1601311079	1
Hedinger	Isopropyl alcohol	171893205489	1
Hedinger	Isopropyl alcohol	20170160	1
Hedinger	Isopropyl alcohol	2022015D	1
Hedinger	Isopropyl alcohol	2072015A	1
Hedinger	Isopropyl alcohol	2310211079	1
Hedinger	Isopropyl alcohol	231307	1
Hedinger	Isopropyl alcohol	2315B-01079	1
Hedinger	Isopropyl alcohol	2x070461B	1
Hedinger	Isopropyl alcohol	3013E1079	1
Hedinger	Isopropyl alcohol	31115-88	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol	3397	1
Hedinger	Isopropyl alcohol	402211079	1
Hedinger	Isopropyl alcohol	406211079	1
Hedinger	Isopropyl alcohol	4103014	1
Hedinger	Isopropyl alcohol	50700B	1
Hedinger	Isopropyl alcohol	701006B	2
hedinger	Isopropyl alcohol	701011b	1
Hedinger	Isopropyl alcohol	701011B	3
Hedinger	Isopropyl alcohol	701015B	2
Hedinger	Isopropyl alcohol	701020B	1
Hedinger	Isopropyl alcohol	701026B	8
HEDINGER	Isopropyl alcohol	701026B	2
Hedinger	Isopropyl alcohol	7010318	1
Hedinger	Isopropyl alcohol	701031B	7
hedinger	Isopropyl alcohol	701035B	1
Hedinger	Isopropyl alcohol	701035B	4
HEDINGER	Isopropyl alcohol	701035B	1
Hedinger	Isopropyl alcohol	701043B	15
Hedinger	Isopropyl alcohol	701052b	1
Hedinger	Isopropyl alcohol	701052B	1
Hedinger	Isopropyl alcohol	701054B	4
hedinger	Isopropyl alcohol	70105B	1
Hedinger	Isopropyl alcohol	701061B	6
Hedinger	Isopropyl alcohol	7010658	1
Hedinger	Isopropyl alcohol	701065B	9
Hedinger	Isopropyl alcohol	7010688	1
Hedinger	Isopropyl alcohol	701068B	4
hedinger	Isopropyl alcohol	701071B	1
Hedinger	Isopropyl alcohol	701071B	3
Hedinger	Isopropyl alcohol	701073b	1
Hedinger	Isopropyl alcohol	701073B	4
Hedinger	Isopropyl alcohol	701078B	7
hedinger	Isopropyl alcohol	701081B	1
Hedinger	Isopropyl alcohol	701081B	3
Hedinger	Isopropyl alcohol	70108Bpalmito	1
Hedinger	Isopropyl alcohol	7010938	1
Hedinger	Isopropyl alcohol	701093B	6
Hedinger	Isopropyl alcohol	701099B	6
Hedinger	Isopropyl alcohol	7011048B	1
Hedinger	Isopropyl alcohol	7011058	1
hedinger	Isopropyl alcohol	701105B	1
Hedinger	Isopropyl alcohol	701105B	4
Hedinger	Isopropyl alcohol	701107B	3
Hedinger	Isopropyl alcohol	7011138	1
Hedinger	Isopropyl alcohol	701113B	3
Hedinger	Isopropyl alcohol	7011148	1
Hedinger	Isopropyl alcohol	701114B	15
Hedinger	Isopropyl alcohol	701117B	1
Hedinger	Isopropyl alcohol	701118B	1
hedinger	Isopropyl alcohol	701123B	1
Hedinger	Isopropyl alcohol	701123B	11
HEDINGER	Isopropyl alcohol	701123B	1
Hedinger	Isopropyl alcohol	701133B	6
HEDINGER	Isopropyl alcohol	701133B	1
Hedinger	Isopropyl alcohol	701136B	5
Hedinger	Isopropyl alcohol	701139b	3
Hedinger	Isopropyl alcohol	701139B	9
Hedinger	Isopropyl alcohol	7011458	1
Hedinger	Isopropyl alcohol	701145b	1
Hedinger	Isopropyl alcohol	701145B	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
HEDINGER	Isopropyl alcohol	701145B	1
Hedinger	Isopropyl alcohol	701148B	3
Hedinger	Isopropyl alcohol	701149B	3
Hedinger	Isopropyl alcohol	70114B	1
hedinger	Isopropyl alcohol	701156B	1
Hedinger	Isopropyl alcohol	701156B	8
HEDINGER	Isopropyl alcohol	701156B	1
Hedinger	Isopropyl alcohol	701158B	1
Hedinger	Isopropyl alcohol	701164B	2
Hedinger	Isopropyl alcohol	701169B	4
HEDINGER	Isopropyl alcohol	701169B	1
Hedinger	Isopropyl alcohol	701173B	14
HEDINGER	Isopropyl alcohol	701173B	1
Hedinger	Isopropyl alcohol	701175B	2
Hedinger	Isopropyl alcohol	70118	1
hedinger	Isopropyl alcohol	701181B	1
Hedinger	Isopropyl alcohol	701181B	7
Hedinger	Isopropyl alcohol	701182B	3
HEDINGER	Isopropyl alcohol	701182B	1
Hedinger	Isopropyl alcohol	701186B	4
Hedinger	Isopropyl alcohol	701188B	5
Hedinger	Isopropyl alcohol	7011898	1
Hedinger	Isopropyl alcohol	701189B	8
HEDINGER	Isopropyl alcohol	701189B	1
hedinger	Isopropyl alcohol	701193B	2
Hedinger	Isopropyl alcohol	701193B	1
hedinger	Isopropyl alcohol	701194B	2
Hedinger	Isopropyl alcohol	701194B	4
Hedinger	Isopropyl alcohol	7011968	1
Hedinger	Isopropyl alcohol	701196B	2
Hedinger	Isopropyl alcohol	701199B	4
Hedinger	Isopropyl alcohol	7012018	3
Hedinger	Isopropyl alcohol	701201B	7
Hedinger	Isopropyl alcohol	7012038	1
Hedinger	Isopropyl alcohol	701203B	3
Hedinger	Isopropyl alcohol	7012048	1
Hedinger	Isopropyl alcohol	701204B	4
hedinger	Isopropyl alcohol	701209B	7
Hedinger	Isopropyl alcohol	701209B	4
hedinger	Isopropyl alcohol	701210B	2
Hedinger	Isopropyl alcohol	701210B	1
hedinger	Isopropyl alcohol	701212B	5
Hedinger	Isopropyl alcohol	701212B	12
hedinger	Isopropyl alcohol	701214B	2
Hedinger	Isopropyl alcohol	701214b	1
Hedinger	Isopropyl alcohol	701214B	10
Hedinger	Isopropyl alcohol	701218B	3
HEDINGER	Isopropyl alcohol	701218B	1
Hedinger	Isopropyl alcohol	701220B	3
Hedinger	Isopropyl alcohol	701231B	2
Hedinger	Isopropyl alcohol	701233	1
Hedinger	Isopropyl alcohol	701233B	3
Hedinger	Isopropyl alcohol	701244B	1
hedinger	Isopropyl alcohol	701258B	1
Hedinger	Isopropyl alcohol	701258B	4
hedinger	Isopropyl alcohol	701262B	1
Hedinger	Isopropyl alcohol	701262B	1
Hedinger	Isopropyl alcohol	701282B	1
HEDINGER	Isopropyl alcohol	701284B	1
Hedinger	Isopropyl alcohol	701287B	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol	701299B	3
Hedinger	Isopropyl alcohol	701302B	2
Hedinger	Isopropyl alcohol	701317B	1
Hedinger	Isopropyl alcohol	701321B	3
Hedinger	Isopropyl alcohol	701325B	1
Hedinger	Isopropyl alcohol	70145B	1
Hedinger	Isopropyl alcohol	70165B	1
Hedinger	Isopropyl alcohol	70219B	1
Hedinger	Isopropyl alcohol	70380	1
Hedinger	Isopropyl alcohol	70422B	1
Hedinger	Isopropyl alcohol	70439B	1
Hedinger	Isopropyl alcohol	70444B	1
Hedinger	Isopropyl alcohol	70447B	2
Hedinger	Isopropyl alcohol	70457B	1
Hedinger	Isopropyl alcohol	70461B	3
Hedinger	Isopropyl alcohol	704638	1
Hedinger	Isopropyl alcohol	70463B	1
Hedinger	Isopropyl alcohol	70465B	1
Hedinger	Isopropyl alcohol	70471B	2
Hedinger	Isopropyl alcohol	70478B	5
Hedinger	Isopropyl alcohol	70481B	1
Hedinger	Isopropyl alcohol	704888	1
Hedinger	Isopropyl alcohol	70488B	2
Hedinger	Isopropyl alcohol	70495B	1
Hedinger	Isopropyl alcohol	70497B	1
Hedinger	Isopropyl alcohol	70498B	1
Hedinger	Isopropyl alcohol	70500B	1
Hedinger	Isopropyl alcohol	70501B	4
Hedinger	Isopropyl alcohol	70507B	6
Hedinger	Isopropyl alcohol	70511B	3
Hedinger	Isopropyl alcohol	70519B	1
Hedinger	Isopropyl alcohol	705258	1
Hedinger	Isopropyl alcohol	70527B	5
Hedinger	Isopropyl alcohol	70530B	2
Hedinger	Isopropyl alcohol	70532B	3
Hedinger	Isopropyl alcohol	70536B	3
Hedinger	Isopropyl alcohol	70540B	1
Hedinger	Isopropyl alcohol	70541B	4
Hedinger	Isopropyl alcohol	70545B	4
Hedinger	Isopropyl alcohol	70553B	5
Hedinger	Isopropyl alcohol	705540B	1
Hedinger	Isopropyl alcohol	70555B	4
Hedinger	Isopropyl alcohol	70559B	1
Hedinger	Isopropyl alcohol	70562B	3
Hedinger	Isopropyl alcohol	70564B	2
Hedinger	Isopropyl alcohol	705728	2
Hedinger	Isopropyl alcohol	70572B	5
Hedinger	Isopropyl alcohol	705738	2
Hedinger	Isopropyl alcohol	70573B	1
Hedinger	Isopropyl alcohol	70574B	3
Hedinger	Isopropyl alcohol	70577B	1
Hedinger	Isopropyl alcohol	70578	1
Hedinger	Isopropyl alcohol	70578B	2
Hedinger	Isopropyl alcohol	70581B	1
hedinger	Isopropyl alcohol	70584B	1
Hedinger	Isopropyl alcohol	70584B	3
Hedinger	Isopropyl alcohol	70587B	2
Hedinger	Isopropyl alcohol	70592B	1
Hedinger	Isopropyl alcohol	70593B	3
Hedinger	Isopropyl alcohol	70595B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol	70598B	9
Hedinger	Isopropyl alcohol	70603B	6
Hedinger	Isopropyl alcohol	70607B	3
Hedinger	Isopropyl alcohol	7060B	1
Hedinger	Isopropyl alcohol	70614B	1
Hedinger	Isopropyl alcohol	70620B	6
Hedinger	Isopropyl alcohol	70623B	1
Hedinger	Isopropyl alcohol	70627b	1
Hedinger	Isopropyl alcohol	70627B	5
Hedinger	Isopropyl alcohol	70630B	1
Hedinger	Isopropyl alcohol	70636B	2
Hedinger	Isopropyl alcohol	70638B	3
hedinger	Isopropyl alcohol	70643B	1
Hedinger	Isopropyl alcohol	70643B	8
Hedinger	Isopropyl alcohol	70650B	5
Hedinger	Isopropyl alcohol	70656B	1
Hedinger	Isopropyl alcohol	70659B	4
hedinger	Isopropyl alcohol	70663B	1
Hedinger	Isopropyl alcohol	70663B	3
Hedinger	Isopropyl alcohol	70666B	1
Hedinger	Isopropyl alcohol	70668B	1
Hedinger	Isopropyl alcohol	70671B	2
hedinger	Isopropyl alcohol	70675B	1
Hedinger	Isopropyl alcohol	70675B	3
Hedinger	Isopropyl alcohol	70680B	2
Hedinger	Isopropyl alcohol	70685B	6
Hedinger	Isopropyl alcohol	70690B	3
Hedinger	Isopropyl alcohol	70693B	2
Hedinger	Isopropyl alcohol	70695B	1
Hedinger	Isopropyl alcohol	70701B	2
Hedinger	Isopropyl alcohol	70703B	3
Hedinger	Isopropyl alcohol	70704B	1
Hedinger	Isopropyl alcohol	70707B	6
Hedinger	Isopropyl alcohol	707088	1
Hedinger	Isopropyl alcohol	70708B	2
Hedinger	Isopropyl alcohol	707158	1
Hedinger	Isopropyl alcohol	70715b	1
Hedinger	Isopropyl alcohol	70715B	5
Hedinger	Isopropyl alcohol	70720B	4
Hedinger	Isopropyl alcohol	70722B	3
Hedinger	Isopropyl alcohol	70723B	1
hedinger	Isopropyl alcohol	70726B	2
Hedinger	Isopropyl alcohol	70730B	2
Hedinger	Isopropyl alcohol	70736B	3
Hedinger	Isopropyl alcohol	70737B	4
Hedinger	Isopropyl alcohol	70739B	1
Hedinger	Isopropyl alcohol	70742B	3
Hedinger	Isopropyl alcohol	70748B	8
Hedinger	Isopropyl alcohol	70755B	3
Hedinger	Isopropyl alcohol	70763B	1
Hedinger	Isopropyl alcohol	70767B	4
Hedinger	Isopropyl alcohol	70768B	5
Hedinger	Isopropyl alcohol	70771B	6
Hedinger	Isopropyl alcohol	70783B	4
Hedinger	Isopropyl alcohol	70788B	3
Hedinger	Isopropyl alcohol	70794B	3
Hedinger	Isopropyl alcohol	70796B	2
Hedinger	Isopropyl alcohol	70799B	6
Hedinger	Isopropyl alcohol	70802B	2
Hedinger	Isopropyl alcohol	70808B	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol	70809	1
Hedinger	Isopropyl alcohol	70809B	6
Hedinger	Isopropyl alcohol	70816B	1
Hedinger	Isopropyl alcohol	708188	2
hedinger	Isopropyl alcohol	70818B	1
Hedinger	Isopropyl alcohol	70818B	3
Hedinger	Isopropyl alcohol	708258	2
Hedinger	Isopropyl alcohol	70825B	4
Hedinger	Isopropyl alcohol	70835B	4
Hedinger	Isopropyl alcohol	70837B	2
Hedinger	Isopropyl alcohol	70853B	1
Hedinger	Isopropyl alcohol	70855B	2
Hedinger	Isopropyl alcohol	70858b	1
Hedinger	Isopropyl alcohol	70858B	9
HEDINGER	Isopropyl alcohol	70858B	1
Hedinger	Isopropyl alcohol	70862B	1
HEDINGER	Isopropyl alcohol	70862B	1
Hedinger	Isopropyl alcohol	70870B	1
Hedinger	Isopropyl alcohol	70879B	5
hedinger	Isopropyl alcohol	70881B	1
Hedinger	Isopropyl alcohol	70881B	2
Hedinger	Isopropyl alcohol	708828	1
Hedinger	Isopropyl alcohol	70882B	5
Hedinger	Isopropyl alcohol	70884B	1
Hedinger	Isopropyl alcohol	70889B	2
Hedinger	Isopropyl alcohol	70892B	1
Hedinger	Isopropyl alcohol	70896B	1
Hedinger	Isopropyl alcohol	70898B	4
Hedinger	Isopropyl alcohol	7089B	1
Hedinger	Isopropyl alcohol	70900B	1
Hedinger	Isopropyl alcohol	70906B	4
Hedinger	Isopropyl alcohol	70908B	2
Hedinger	Isopropyl alcohol	70915B	2
Hedinger	Isopropyl alcohol	70918B	1
Hedinger	Isopropyl alcohol	70922B	5
Hedinger	Isopropyl alcohol	70923B	2
Hedinger	Isopropyl alcohol	70931B	5
Hedinger	Isopropyl alcohol	70936b	1
Hedinger	Isopropyl alcohol	70936B	7
Hedinger	Isopropyl alcohol	70941B	2
Hedinger	Isopropyl alcohol	70943B	2
hedinger	Isopropyl alcohol	70947B	1
Hedinger	Isopropyl alcohol	70947B	6
Hedinger	Isopropyl alcohol	70957B	2
Hedinger	Isopropyl alcohol	70959b	1
Hedinger	Isopropyl alcohol	70959B	5
Hedinger	Isopropyl alcohol	70969	1
Hedinger	Isopropyl alcohol	70969B	2
Hedinger	Isopropyl alcohol	70973	1
Hedinger	Isopropyl alcohol	709738	1
Hedinger	Isopropyl alcohol	70973B	3
Hedinger	Isopropyl alcohol	70977B	9
Hedinger	Isopropyl alcohol	70982B	1
Hedinger	Isopropyl alcohol	70983B	8
hedinger	Isopropyl alcohol	70991B	1
Hedinger	Isopropyl alcohol	70991B	3
Hedinger	Isopropyl alcohol	70993B	2
Hedinger	Isopropyl alcohol	709943	1
Hedinger	Isopropyl alcohol	709948	1
hedinger	Isopropyl alcohol	70994B	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol	70994B	20
Hedinger	Isopropyl alcohol	71189B	1
Hedinger	Isopropyl alcohol	7474942	1
Hedinger	Isopropyl alcohol	7474959	2
Hedinger	Isopropyl alcohol	7638B	1
Hedinger	Isopropyl alcohol	7911408	1
Hedinger	Isopropyl alcohol	9709838	1
Hedinger	Isopropyl alcohol	P2018/109	1
Hedinger	Isopropyl alcohol	Q101012	2
Hedinger1	Isopropyl alcohol	70607B	1
HEDINGER7/AHD	Isopropyl alcohol	701214B	1
HedingerAlliance	Isopropyl alcohol	701156B	1
HedingerAlliance	Isopropyl alcohol	7011640	1
HedingerAlliance	Isopropyl alcohol	701258B	1
HedingerAlliance	Isopropyl alcohol	70866B	2
HedingerAlliance	Isopropyl alcohol	70881B	2
HedingerAlliance	Isopropyl alcohol	70882B	1
HedingerGmbH/AHD	Isopropyl alcohol	701233B	1
Hedinger-Phönix	Isopropyl alcohol	701052B	1
HedingerStuttgart/GEHE	Isopropyl alcohol	70430B	1
HedingerStuttgart/GEHE	Isopropyl alcohol	704958	1
HedingerStuttgart/GEHE	Isopropyl alcohol	704978	1
HedingerStuttgart/GEHE	Isopropyl alcohol	70527B	1
Heginger/Gehe	Isopropyl alcohol	70994B	1
Heidinger/ Noweda	Isopropyl alcohol	701031B	2
Heidinger/ Noweda	Isopropyl alcohol	701123B	1
Heidinger/ Noweda	Isopropyl alcohol	701173B	1
Heidinger/ Noweda	Isopropyl alcohol	701175B	1
Heidinger	Isopropyl alcohol	70748B	1
Heidinger	Isopropyl alcohol	70922B	1
Heinger/G	Isopropyl alcohol	70730B	1
Hendriger	Isopropyl alcohol	701317B	1
Henry Lamotte Oils GmbH	Isopropyl alcohol	701052B	1
Henry Lamotte Oils GmbH	Isopropyl alcohol	70627B	1
Henry Lamotte Oils	Isopropyl alcohol	16310633	1
Henry Lamotte/ Sanacorp	Isopropyl alcohol	15300912	1
Henry LamotteOlis GmbH/...	Isopropyl alcohol	7011368	1
Heraeus	Isopropyl alcohol	3960070	4
Herdinger Phönix	Isopropyl alcohol	70536B	1
Herdinger	Isopropyl alcohol	70592B	1
Hetterich/Noewda	Isopropyl alcohol	70796B	1
Höfer Chemie GmbH	Isopropyl alcohol	200661-7	1
Höfer Chemie GmbH	Isopropyl alcohol	keine	1
Höfer Chemie	Isopropyl alcohol	200-661-7	1
Höfer Chemie	Isopropyl alcohol	20200828352678	1
Höfer Chemie	Isopropyl alcohol	20504295	5
Höfer Chemie	Isopropyl alcohol	4923198/100	2
Höfer	Isopropyl alcohol	1425423	1
Hofmann/Schmittmann Korn	Isopropyl alcohol	2710227	1
Hofmann/Schmittmann Korn	Isopropyl alcohol	2772128	1
Hubmann Stern	Isopropyl alcohol	200-661-7	1
Ichthyol/Noweda	Isopropyl alcohol	70587B	1
Ichthyol/Phönix	Isopropyl alcohol	70835B	1
Isopropylalkohol GMP/Gehe	Isopropyl alcohol	70598B	1
Isopropylalkohol/Noweda	Isopropyl alcohol	701105B	1
Jenne, Hedinger	Isopropyl alcohol	70475B	1
Jenne, Hedinger	Isopropyl alcohol	70501B	1
Jenne, Hedinger	Isopropyl alcohol	70519B	1
Jenne/Hedinger	Isopropyl alcohol	701099B	1
Jenne/Hedinger	Isopropyl alcohol	70643B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Jenne	Isopropyl alcohol	701073B	1
Jenne	Isopropyl alcohol	70114B	1
Jenne	Isopropyl alcohol	701194B	2
Jenne	Isopropyl alcohol	701212B	2
Jenne	Isopropyl alcohol	7474936	1
Jürgen Boesecke GmbH	Isopropyl alcohol	200400310	1
Karl Kost Alkohole/Krie...	Isopropyl alcohol	310140618140	1
Karl Kost Alkohole	Isopropyl alcohol	310080420173	1
Karl-Josef Kost Alkohol...	Isopropyl alcohol	310150221191	1
Karl-Josef Kost/Karl-Jo...	Isopropyl alcohol	310190220167	4
Karl-Josef Kost/Karl-Jo...	Isopropyl alcohol	310190220167q	1
Kassner & Sasse	Isopropyl alcohol	383316	2
Kassner & Sasse	Isopropyl alcohol	669929	1
Kehr/ Hedinger	Isopropyl alcohol	70994B	1
Kehr/Hedinger	Isopropyl alcohol	70898B	1
Kehr	Isopropyl alcohol	2011	1
Klenk	Isopropyl alcohol	70475b	1
Klenk	Isopropyl alcohol	70527B	1
Kögl	Isopropyl alcohol	KNC0576J16	1
Kögl	Isopropyl alcohol	KNC0593J17	1
Kögl	Isopropyl alcohol	KNC1686J17	1
Kost/ - /16.09.13	Isopropyl alcohol	310120913059	1
Kost/Karl Josef Kost/Kr...	Isopropyl alcohol	310151019161	1
Kost/Karl Josef Kost	Isopropyl alcohol	310230218134	1
Kost/kost/sophien	Isopropyl alcohol	310261113062	1
Kost	Isopropyl alcohol	310031215096	1
kost	Isopropyl alcohol	310120913059	2
Kost	Isopropyl alcohol	310140616105	1
Kost	Isopropyl alcohol	310160418136	1
Kost	Isopropyl alcohol	310260419153	1
L 10/Hedinger	Isopropyl alcohol	70866B	1
L10/Apoth.E.Bartel	Isopropyl alcohol	70858B	1
L10	Isopropyl alcohol	701031B	1
L10	Isopropyl alcohol	701054B	1
L10	Isopropyl alcohol	70977B	1
L11	Isopropyl alcohol	701099B	1
L12/Apoth.E.Bartel	Isopropyl alcohol	70835B	1
Laborchemie Apolda GmbH...	Isopropyl alcohol	18178216	1
Lolab	Isopropyl alcohol	992926	1
Martinus-Apotheke	Isopropyl alcohol	20504295	1
Megro	Isopropyl alcohol	310190919160	1
Merck	Isopropyl alcohol	K17381091	1
Nanoprotect GmbH	Isopropyl alcohol	2020-III	1
NeoFroxx/Fox Chemicals	Isopropyl alcohol	5E5CEE9F	1
neoFroxxGmbH/Fox Chemic...	Isopropyl alcohol	5CE6AEEA	1
neoFroxxGmbH/Fox Chemic...	Isopropyl alcohol	5D713BC1	1
neoFroxxGmbH/Fox Chemic...	Isopropyl alcohol	5E675FA7	1
NicoLiquids Essen	Isopropyl alcohol	12345	1
Nokun	Isopropyl alcohol	70870B	1
Nordwest Chemie	Isopropyl alcohol	F2000484	2
Nordwest Chemie	Isopropyl alcohol	F2000508	1
Nordwest Chemie	Isopropyl alcohol	F2000508-1	1
Nowed	Isopropyl alcohol	701078B	1
Nowed	Isopropyl alcohol	701181B	3
Nowed	Isopropyl alcohol	701186B	3
Noweda / Hedinger	Isopropyl alcohol	701123B	1
Noweda / Hedinger	Isopropyl alcohol	70598B	1
Noweda / Hedinger	Isopropyl alcohol	70638B	1
Noweda / Hedinger	Isopropyl alcohol	70742B	2
Noweda Hedinger 15.01.2...	Isopropyl alcohol	709948	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda Hedinger	Isopropyl alcohol	701188B	1
Noweda/ Dr. Seeger	Isopropyl alcohol	70540B	1
Noweda/ Hedinger GmbH	Isopropyl alcohol	70663B	1
Noweda/ Hedinger	Isopropyl alcohol	701114B	1
Noweda/ Hedinger	Isopropyl alcohol	701186B	1
Noweda/Hedin	Isopropyl alcohol	70726B	1
Noweda/Hedinger	Isopropyl alcohol	701043B	1
Noweda/Hedinger	Isopropyl alcohol	701073B	1
Noweda/Hedinger	Isopropyl alcohol	701093B	1
Noweda/Hedinger	Isopropyl alcohol	701105B	1
Noweda/Hedinger	Isopropyl alcohol	701136B	1
Noweda/hedinger	Isopropyl alcohol	701258B	1
Noweda/Hedinger	Isopropyl alcohol	701302B	1
Noweda/Hedinger	Isopropyl alcohol	70507B	2
Noweda/Hedinger	Isopropyl alcohol	70555B	1
Noweda/Hedinger	Isopropyl alcohol	70565B	1
Noweda/Hedinger	Isopropyl alcohol	70572B	1
Noweda/Hedinger	Isopropyl alcohol	70574B	1
Noweda/Hedinger	Isopropyl alcohol	70584B	1
Noweda/Hedinger	Isopropyl alcohol	70610B	1
Noweda/Hedinger	Isopropyl alcohol	706148	1
Noweda/Hedinger	Isopropyl alcohol	70614B	1
Noweda/Hedinger	Isopropyl alcohol	70627B	1
Noweda/Hedinger	Isopropyl alcohol	70650B	1
Noweda/Hedinger	Isopropyl alcohol	70659B	1
Noweda/Hedinger	Isopropyl alcohol	70685	1
Noweda/Hedinger	Isopropyl alcohol	70693B	2
Noweda/Hedinger	Isopropyl alcohol	70722B	1
Noweda/Hedinger	Isopropyl alcohol	70730B	1
Noweda/Hedinger	Isopropyl alcohol	70734B	1
Noweda/Hedinger	Isopropyl alcohol	70799B	1
Noweda/Hedinger	Isopropyl alcohol	70923B	1
Noweda/Hedinger	Isopropyl alcohol	70943B	1
Noweda/Henry Lamotte	Isopropyl alcohol	706638	1
Noweda	Isopropyl alcohol	11371222	1
Noweda	Isopropyl alcohol	12112218	1
Noweda	Isopropyl alcohol	12254715	1
Noweda	Isopropyl alcohol	12321023	2
Noweda	Isopropyl alcohol	12379510	1
Noweda	Isopropyl alcohol	12379515	1
Noweda	Isopropyl alcohol	13397303	1
Noweda	Isopropyl alcohol	14051027	1
noweda	Isopropyl alcohol	14278905	1
Noweda	Isopropyl alcohol	16137302	1
noweda	Isopropyl alcohol	16137324	1
Noweda	Isopropyl alcohol	16310616	1
Noweda	Isopropyl alcohol	17044031	1
Noweda	Isopropyl alcohol	17044033	1
Noweda	Isopropyl alcohol	181778209	1
Noweda	Isopropyl alcohol	18178207	1
Noweda	Isopropyl alcohol	18178209	1
Noweda	Isopropyl alcohol	18178240	1
Noweda	Isopropyl alcohol	18291710	2
Noweda	Isopropyl alcohol	19059527	1
Noweda	Isopropyl alcohol	19209802	1
Noweda	Isopropyl alcohol	20001557011	1
Noweda	Isopropyl alcohol	20001557022	1
Noweda	Isopropyl alcohol	701035B	1
Noweda	Isopropyl alcohol	701043B	1
Noweda	Isopropyl alcohol	701071B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Isopropyl alcohol	7010818	1
Noweda	Isopropyl alcohol	701123B	1
Noweda	Isopropyl alcohol	701156B	1
Noweda	Isopropyl alcohol	701173B	1
Noweda	Isopropyl alcohol	701194B	1
Noweda	Isopropyl alcohol	701201B	1
Noweda	Isopropyl alcohol	701203B	2
Noweda	Isopropyl alcohol	701212B	1
Noweda	Isopropyl alcohol	70409B	1
Noweda	Isopropyl alcohol	70459B	1
Noweda	Isopropyl alcohol	70475B	2
Noweda	Isopropyl alcohol	70490B	1
Noweda	Isopropyl alcohol	70519B	1
Noweda	Isopropyl alcohol	70627B	1
Noweda	Isopropyl alcohol	70638B	1
Noweda	Isopropyl alcohol	707488	1
Noweda	Isopropyl alcohol	70755B	1
Noweda	Isopropyl alcohol	70835B	1
Noweda	Isopropyl alcohol	70898B	1
Noweda	Isopropyl alcohol	70931B	1
Noweda	Isopropyl alcohol	70993B	1
Otto Fischar GmbH & Co....	Isopropyl alcohol	1009011	1
Otto Fischar GmbH & Co....	Isopropyl alcohol	4108024	1
Otto Fischar GmbH	Isopropyl alcohol	1008081	1
Otto Fischar GmbH	Isopropyl alcohol	4104072	1
Otto Fischar/GEHE	Isopropyl alcohol	1008011	1
Otto Fischar	Isopropyl alcohol	4100014	4
Otto fischar	Isopropyl alcohol	41000314	1
Otto Fischar	Isopropyl alcohol	410003G	1
Otto Fischar	Isopropyl alcohol	603117000	1
Otto Fischar	Isopropyl alcohol	ohne	1
Otto Fischer / Alliance...	Isopropyl alcohol	1009011	1
Otto Fischer / Gehe EK ...	Isopropyl alcohol	100/0051	1
Otto Fischer GmbH & co....	Isopropyl alcohol	1008011	1
Otto Fischer GmbH & co....	Isopropyl alcohol	1008081	1
Otto Fischer GmbH	Isopropyl alcohol	10172297	1
OttoFischar/Noweda	Isopropyl alcohol	1005041	1
Ph.Eur.	Isopropyl alcohol	701099B	1
Ph.Eur.	Isopropyl alcohol	701139B	1
Ph.Eur/Sanacorp	Isopropyl alcohol	701081B	1
Phoen	Isopropyl alcohol	70809B	1
Phoenix 22.10.14	Isopropyl alcohol	70607B	1
Phoenix goettin	Isopropyl alcohol	70685B	1
Phoenix/Fischer	Isopropyl alcohol	1008081	1
Phoenix/Hedinger	Isopropyl alcohol	701182B	1
Phoenix	Isopropyl alcohol	14219204	1
Phoenix	Isopropyl alcohol	20001179020	2
Phoenix	Isopropyl alcohol	20001557007	3
Phoenix	Isopropyl alcohol	2000155707	1
Phoenix	Isopropyl alcohol	3023	1
Phoenix	Isopropyl alcohol	3048	1
Phoenix	Isopropyl alcohol	3086	1
Phoenix	Isopropyl alcohol	3228	1
Phoenix	Isopropyl alcohol	3241	1
Phoenix	Isopropyl alcohol	410003g	1
Phoenix	Isopropyl alcohol	4108082	1
Phoenix	Isopropyl alcohol	701105B	1
Phoenix	Isopropyl alcohol	701113B	1
Phoenix	Isopropyl alcohol	701133B	2
phoenix	Isopropyl alcohol	70947B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Isopropyl alcohol	70994B	1
Phönix 13.10.15 ...	Isopropyl alcohol	70734B	1
Phönix / Hedinger	Isopropyl alcohol	70809B	1
Phönix 07.01.15	Isopropyl alcohol	70650B	1
Phönix W.E:11.04.18 E....	Isopropyl alcohol	70991B	1
Phönix/ HEDINGER	Isopropyl alcohol	701214B	1
Phönix/ HEDINGER	Isopropyl alcohol	701218B	1
Phönix/Hedinger GmbH	Isopropyl alcohol	701107B	1
Phönix/Hedinger GmbH	Isopropyl alcohol	701114B	1
Phönix/Hedinger	Isopropyl alcohol	701113B	1
Phönix	Isopropyl alcohol	1009011	1
Phönix	Isopropyl alcohol	12321002	1
Phönix	Isopropyl alcohol	13249432	1
Phonix	Isopropyl alcohol	14134715	1
Phönix	Isopropyl alcohol	17300406	1
Phönix	Isopropyl alcohol	17300430	1
Phönix	Isopropyl alcohol	18178223	1
Phönix	Isopropyl alcohol	19059513	1
Phönix	Isopropyl alcohol	20001912003	1
Phönix	Isopropyl alcohol	3138	1
Phönix	Isopropyl alcohol	3168	1
Phönix	Isopropyl alcohol	410003G	1
Phönix	Isopropyl alcohol	4100048	1
Phönix	Isopropyl alcohol	701011B	1
PHÖNIX	Isopropyl alcohol	701214B	1
Phönix	Isopropyl alcohol	701302B	3
Phönix	Isopropyl alcohol	70536B	1
phönix	Isopropyl alcohol	70783b	1
phönix	Isopropyl alcohol	70799B	1
phönix	Isopropyl alcohol	70837B	1
phönix	Isopropyl alcohol	70862B	1
Phönix	Isopropyl alcohol	70862B	1
Phönix	Isopropyl alcohol	70870B	1
phönix	Isopropyl alcohol	70898b	1
Phönix	Isopropyl alcohol	70983B	1
Post Apotheke	Isopropyl alcohol	18291708	2
PTS GmbH	Isopropyl alcohol	10031701	1
Rondell Apotheke	Isopropyl alcohol	70607B	2
Rondell Apotheke	Isopropyl alcohol	70818B	1
Röntgen	Isopropyl alcohol	18178229	1
Röntgen	Isopropyl alcohol	20003673009	1
Roth Chemical	Isopropyl alcohol	1331811	1
Roth Chemical	Isopropyl alcohol	1344201	1
Roth/Walter-CMP	Isopropyl alcohol	90293586	3
Roth	Isopropyl alcohol	30291609	1
Roth	Isopropyl alcohol	60292951	2
Rückgabe Marschollek	Isopropyl alcohol	70896B	1
S3 Chemicals	Isopropyl alcohol	ABNX/P-20032001	1
Sanacorp EK:4,56 EUR -1l	Isopropyl alcohol	70923B	1
Sanacorp / Hedinger	Isopropyl alcohol	70573B	1
Sanacorp / Hedinger	Isopropyl alcohol	70726B	1
Sanacorp 08.11.21 EK:11...	Isopropyl alcohol	211108I	1
Sanacorp, 18.03.17, 29,...	Isopropyl alcohol	70906B	1
sanacorp, 29,30EUR, 15.09...	Isopropyl alcohol	70835B	1
sanacorp, hedinger	Isopropyl alcohol	701156B	1
Sanacorp/ Hedinger	Isopropyl alcohol	701182B	1
Sanacorp/ Hedinger	Isopropyl alcohol	701199B	1
Sanacorp/Hedinger WE:15...	Isopropyl alcohol	70748B	1
Sanacorp/Hedinger	Isopropyl alcohol	701214B	1
Sanacorp/Hedinger	Isopropyl alcohol	70923B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Isopropyl alcohol		1
Sanacorp	Isopropyl alcohol	1000051	1
Sanacorp	Isopropyl alcohol	12321028	1
Sanacorp	Isopropyl alcohol	13050904	1
Sanacorp	Isopropyl alcohol	1324919	2
Sanacorp	Isopropyl alcohol	13249410	1
Sanacorp	Isopropyl alcohol	13249416	1
Sanacorp	Isopropyl alcohol	14051017	1
Sanacorp	Isopropyl alcohol	14051035	1
Sanacorp	Isopropyl alcohol	14134709	1
Sanacorp	Isopropyl alcohol	14134725	1
Sanacorp	Isopropyl alcohol	14278913	1
Sanacorp	Isopropyl alcohol	15171302	1
Sanacorp	Isopropyl alcohol	15300902	1
Sanacorp	Isopropyl alcohol	16039901	1
Sanacorp	Isopropyl alcohol	17189318	1
Sanacorp	Isopropyl alcohol	17189324	1
Sanacorp	Isopropyl alcohol	18065405	2
Sanacorp	Isopropyl alcohol	18178231	1
Sanacorp	Isopropyl alcohol	18291714	1
Sanacorp	Isopropyl alcohol	18291726	1
Sanacorp	Isopropyl alcohol	192098004	1
Sanacorp	Isopropyl alcohol	19209818	1
Sanacorp	Isopropyl alcohol	20000450022	3
Sanacorp	Isopropyl alcohol	701011B	2
Sanacorp	Isopropyl alcohol	701099B	1
Sanacorp	Isopropyl alcohol	701123B	2
Sanacorp	Isopropyl alcohol	701173B	1
Sanacorp	Isopropyl alcohol	701175B	2
Sanacorp	Isopropyl alcohol	701186B	1
Sanacorp	Isopropyl alcohol	701189B	1
Sanacorp	Isopropyl alcohol	701193B	2
Sanacorp	Isopropyl alcohol	701196B	2
Sanacorp	Isopropyl alcohol	701258B	1
Sanacorp	Isopropyl alcohol	701276B	2
Sanacorp	Isopropyl alcohol	701325B	1
sanacorp	Isopropyl alcohol	70481B	1
Sanacorp	Isopropyl alcohol	70593B	1
Sanacorp	Isopropyl alcohol	705988	1
Sanacorp	Isopropyl alcohol	70693B	1
Sanacorp	Isopropyl alcohol	70701B	1
Sanacorp	Isopropyl alcohol	70788B	1
Sanacorp	Isopropyl alcohol	70809B	3
Sanacorp	Isopropyl alcohol	70918B	1
Sanacorp	Isopropyl alcohol	70977B	1
Sanacorp	Isopropyl alcohol	70994B	1
SAV LP Gmbh	Isopropyl alcohol	20200309	1
SAV LP Gmbh	Isopropyl alcohol	939705	1
Scharr KG	Isopropyl alcohol	153001	2
Schwabe	Isopropyl alcohol		1
Schwabe	Isopropyl alcohol	40320	1
Shell Chemicals Europe ...	Isopropyl alcohol	7011948	1
Shell Chemicals/Noweda	Isopropyl alcohol	701196B	1
Shell Chemicals	Isopropyl alcohol	70577B	1
Shell Chemicals	Isopropyl alcohol	70703B	1
Shell/Noweda	Isopropyl alcohol	701133B	2
Shell/Phoenix	Isopropyl alcohol	701214B	8
shell	Isopropyl alcohol	701203B	1
SHELL	Isopropyl alcohol	70540b	1
sittig	Isopropyl alcohol	70788B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sophien AM GmbH/ Kiefer...	Isopropyl alcohol	310260117116	2
sophien-arzneimittel	Isopropyl alcohol	310190514069	1
Spangro 16.2.19	Isopropyl alcohol	18178236	1
Spangro 24.03.2014	Isopropyl alcohol	70562B	1
Spangropharm	Isopropyl alcohol	701189B	1
Spangropharm	Isopropyl alcohol	701193B	1
Spangropharm	Isopropyl alcohol	705988	1
spinnenrad	Isopropyl alcohol	611410093	1
Spinnrad/Phönix	Isopropyl alcohol	1017410092	1
Spinnrad	Isopropyl alcohol	1114410092	1
Spinnrad	Isopropyl alcohol	320410091	1
Spinnrad	Isopropyl alcohol	320410093	1
Spinnrad	Isopropyl alcohol	516410091	1
Stockmeier	Isopropyl alcohol	940589	1
Stockmeier	Isopropyl alcohol	945599	1
Stumpf/Hedinger	Isopropyl alcohol	70527B	2
Stumpf/Hedinger	Isopropyl alcohol	70627B	1
Stumpf/Hedinger	Isopropyl alcohol	70673B	1
Stumpf	Isopropyl alcohol	70540B	1
Taoasis	Isopropyl alcohol	701011B	1
Th. Geyer	Isopropyl alcohol	310140120165	1
Th. Geyer	Isopropyl alcohol	310310120166	1
unbekannt	Isopropyl alcohol	25032020	1
unbekannt	Isopropyl alcohol	25032020REAL	1
Universität Hamburg	Isopropyl alcohol	985328	1
VDL	Isopropyl alcohol	14051020	1
VDL	Isopropyl alcohol	14219213	1
VMP	Isopropyl alcohol	43985	1
VWR Chemicals	Isopropyl alcohol	19L264007	4
VWR Chemicals	Isopropyl alcohol	200-661-7	7
VWR Chemicals	Isopropyl alcohol	20A204118	1
VWR Chemicals	Isopropyl alcohol	20B034013	2
VWR International S.A.S	Isopropyl alcohol	19L264003	1
VWR	Isopropyl alcohol	20b034013	1
VWR	Isopropyl alcohol	20C194011	1
VWR	Isopropyl alcohol	K51090266920	1
VWR	Isopropyl alcohol	K51268166916	1
WE:Sanacorp 08.11.2016 ...	Isopropyl alcohol	70870B	1
WernerHofmann/WernerHof...	Isopropyl alcohol	2772128	1
WernerHofmann/WernerHof...	Isopropyl alcohol	701193B	1

- 292 757 spectra from 1324 *Apo-Ident* customers from a total of 51 474 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Isopropyl alcohol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Isopropyl alcohol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	260	0	68 239
Type B	0	120	0	111 193
Type C	0	4672	29	292 757

The substance/substance group *Isopropyl alcohol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.6923 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.3831 % (> 99.3193 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Isopropyl alcohol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dexpanthenol	139.00	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Isopropyl alcohol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30759	31517	7.01	227.26
31232	31517	1.47	220.33
31386	31517	3.15	217.20
31517	31517	0.00	217.95
32817	31517	6.64	206.07
33256	31517	5.23	200.53

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Isopropyl alcohol 70%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30848-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Isopropyl alcohol 70%; Alcohol isopropylicus 70%

Special notes

When selecting the *Isopropyl alcohol 70%* substance/substance group, the following information is displayed to the user:

- Information about the content of liquid mixtures: The content of the substance refers to volume percent (V/V). Alcohol-water mixtures weighed in in percent by mass (m/V) may cannot be identified.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Isopropyl alcohol 70%	12	25	1759

Second-stage model

For differentiation of the substance/substance group *Isopropyl alcohol 70%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Isopropyl alcohol 70%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Isopropyl alcoho...	14076503	31388	40	1412279
Caelo	Isopropyl alcoho...	14331004	31622	60	20141104
Caelo	Isopropyl alcoho...	15403802	31831	60	20151127
Caelo	Isopropyl alcoho...	160884	32216	40	20160414*
Caelo	Isopropyl alcoho...	161678	32318	40	20160722*
Caelo	Isopropyl alcoho...	161677	32319	40	20160722*
Caelo	Isopropyl alcoho...	161676	32320	40	20160722*
Caelo	Isopropyl alcoho...	161679	32322	40	20160722*
Caelo	Isopropyl alcoho...	163189	33105	40	20161206*
Caelo	Isopropyl alcoho...	163190	33106	40	20161206*
Caelo	Isopropyl alcoho...	21003310	36054	40	20211125*
Caelo	Isopropyl alcoho...	21002600	36058	40	20210827*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 520 spectra of 12 reference samples from the substance/substance group *Isopropyl alcohol 70%*. These samples are listed above in the *calibration samples* section. The reference samples come from 12 different batches.
- 67 979 spectra from a total of 1401 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples:

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 880 spectra of 30 reference samples from the substance/substance group *Isopropyl alcohol 70%*.
- Among them are spectra of independent samples from 25 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Isopropyl alcohol 70%	163191	33107	40
Caelo	Isopropyl alcohol 70%	163192	33108	40
Caelo	Isopropyl alcohol 70%	172029	33685	40
Caelo	Isopropyl alcohol 70%	172028	33686	40
Caelo	Isopropyl alcohol 70%	172031	33689	40
Caelo	Isopropyl alcohol 70%	170821	33702	40
Caelo	Isopropyl alcohol 70%	181143	34067	40
Caelo	Isopropyl alcohol 70%	181142	34068	40
Caelo	Isopropyl alcohol 70%	181141	34069	40
Caelo	Isopropyl alcohol 70%	180739	34071	40
Caelo	Isopropyl alcohol 70%	183080	34465	40
Caelo	Isopropyl alcohol 70%	183079	34466	40
Caelo	Isopropyl alcohol 70%	21002601	35825	50
Caelo	Isopropyl alcohol 70%	21002603	35836	50
Caelo	Isopropyl alcohol 70%	21002602	35837	50
Caelo	Isopropyl alcohol 70%	21003308	36056	10
Caelo	Isopropyl alcohol 70%	21003309	36057	10
Caelo	Isopropyl alcohol 70%	22000732	36167	40
Caelo	Isopropyl alcohol 70%	22000733	36168	10
Caelo	Isopropyl alcohol 70%	22000734	36169	10
Caelo	Isopropyl alcohol 70%	22000735	36170	10
Caelo	Isopropyl alcohol 70%	22001156	36313	40
Caelo	Isopropyl alcohol 70%	22001157	36314	10
Caelo	Isopropyl alcohol 70%	22001158	36315	10
Caelo	Isopropyl alcohol 70%	22001159	36316	10
Caelo	Isopropyl alcohol 70%	21002600	35827	50
Caelo	Isopropyl alcohol 70%	21003310	36055	10
Caelo	Isopropyl alcohol 70%	21002601	36059	10
Caelo	Isopropyl alcohol 70%	21002602	36060	10
Caelo	Isopropyl alcohol 70%	21002603	36061	10

- 110 433 spectra from a total of 2639 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 4492 spectra from 566 *Apo-Ident* customers from 1770 batches from the substance/substance group *Isopropyl alcohol 70%*.
- Among them are spectra of independent samples from 1757 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Isopropyl alcohol 70%	201644	1
03.08.2020	Isopropyl alcohol 70%	53532	3
03.08.2020	Isopropyl alcohol 70%	53536	1
03.08.2020	Isopropyl alcohol 70%	53537	1
04.04.19/GEHE/Hedinger	Isopropyl alcohol 70%	53516	1
A. Hedinger/ Noweda	Isopropyl alcohol 70%	53590	1
A. Hedinger/Noweda	Isopropyl alcohol 70%	53336	2
A.Hedinger/Ph	Isopropyl alcohol 70%	53673	1
A.Hedinger/Sana	Isopropyl alcohol 70%	53504	1
A.Hedinger/Sana	Isopropyl alcohol 70%	53506	2
A.Hedinger/Sana	Isopropyl alcohol 70%	53577	1
A.Hedinger/Sana	Isopropyl alcohol 70%	53603	1
Adler-Apotheke	Isopropyl alcohol 70%		1
AH/Hedinger	Isopropyl alcohol 70%	53490	1
AHD/Hedinger	Isopropyl alcohol 70%	53296	1
AHD/Hedinger	Isopropyl alcohol 70%	53318	1
AHD/Hedinger	Isopropyl alcohol 70%	53329	1
AHD/Hedinger	Isopropyl alcohol 70%	53528	1
AHD/Hedinger	Isopropyl alcohol 70%	53569	1
AHD/Hedinger	Isopropyl alcohol 70%	53601	1
AHD/Hedinger	Isopropyl alcohol 70%	53633	1
Alliance Health 17.03.2...	Isopropyl alcohol 70%	53279	2
Alliance Healthcare/Hed...	Isopropyl alcohol 70%	53285	3
Alliance Healthcare/Hed...	Isopropyl alcohol 70%	53540	1
alliance healthcare	Isopropyl alcohol 70%	53569	1
Alliance/Hedinger	Isopropyl alcohol 70%	53601	1
Alliance/Hedinger	Isopropyl alcohol 70%	53638	2
Alliance/Hedinger	Isopropyl alcohol 70%	53661	1
Alliance/Hedinger	Isopropyl alcohol 70%	53663	1
Alliance/Hedinger	Isopropyl alcohol 70%	53686	3
Alliance/Hedinger	Isopropyl alcohol 70%	53687	2
Alliance/Hedinger	Isopropyl alcohol 70%	53689	3
Alliance/Hedinger	Isopropyl alcohol 70%	53697	3
Alliance/Hedinger	Isopropyl alcohol 70%	53703	5
Alliance/Hedinger	Isopropyl alcohol 70%	53754	2
Alliance/Hedinger	Isopropyl alcohol 70%	53795	1
allianz	Isopropyl alcohol 70%	53388	1
Alte Apo Defektur	Isopropyl alcohol 70%	117A-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	119M-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	1418I-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	1617M-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	1918I-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	2019M-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	2020I-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	2217M-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	2217Q-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	2818M-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	320A-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	3218M-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	3317I-01080	2
Alte Apo Defektur	Isopropyl alcohol 70%	3818I-01080	2
Alte Apo Defektur	Isopropyl alcohol 70%	3919A-01080	2
Alte Apo Defektur	Isopropyl alcohol 70%	420M-01080	2
Alte Apo Defektur	Isopropyl alcohol 70%	4317E-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	4818E-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	5017I-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	517I-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	518A-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	719M-01080	1
Alte Apo Defektur	Isopropyl alcohol 70%	818E-01080	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Alte Apo Defektur	Isopropyl alcohol 70%	H230819	1
Alte Apotheke	Isopropyl alcohol 70%	4716E-01080	1
Amts-Apotheke/Defektur	Isopropyl alcohol 70%	3518A-01080	1
Amts-Apotheke/Defektur	Isopropyl alcohol 70%	4819E-01080	1
antares-apotheke Ler	Isopropyl alcohol 70%	1920E-01080	1
antares-apotheke Ler	Isopropyl alcohol 70%	3420A-01080	1
Anzag/Hedinger	Isopropyl alcohol 70%	5369	1
Anzag/Hedinger	Isopropyl alcohol 70%	53702	1
Anzag	Isopropyl alcohol 70%	18307901	1
Anzag	Isopropyl alcohol 70%	53594	1
apo defektur	Isopropyl alcohol 70%	ISO70082016	1
Apo Dunningen	Isopropyl alcohol 70%	1917A-01080	1
Apo Dunningen	Isopropyl alcohol 70%	3517A-01080	1
Apolda	Isopropyl alcohol 70%	120214	1
Apotärze	Isopropyl alcohol 70%	4815I-01080	1
Apoth.E.Bartel	Isopropyl alcohol 70%	70545B/2	1
Apotheke am Holzweg	Isopropyl alcohol 70%	3912Y-01080	1
Apotheke am Marktplatz	Isopropyl alcohol 70%	2517Q-01080	1
Apotheke am Marktplatz	Isopropyl alcohol 70%	3618M-01080	1
Apotheke am Marktplatz	Isopropyl alcohol 70%	3919E-01080	1
Apotheke am Marktplatz	Isopropyl alcohol 70%	4221A-01080	2
Apotheke am Marktplatz	Isopropyl alcohol 70%	4716l-01080	1
Apotheke am Rathaus-Def...	Isopropyl alcohol 70%	20191118	1
Apotheke Dunningen	Isopropyl alcohol 70%	317A-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	121Q-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	1620E-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	2320M-0180	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	2721A-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	3520Q-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	3921E-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	4120E-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	4520I-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	4619A-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	520F-01080	1
Apotheke Hornbach Zentrum	Isopropyl alcohol 70%	5219Q-01080	1
Apotheke im Arnoldhaus/...	Isopropyl alcohol 70%	2119I-01080	1
Apotheke im Arnoldhaus/...	Isopropyl alcohol 70%	2619Q-01080	1
Apotheke im Kurzzentrum...	Isopropyl alcohol 70%	811162TH2	1
Apotheke	Isopropyl alcohol 70%	116E-07013	1
Apotheke	Isopropyl alcohol 70%	12345	1
Apotheke	Isopropyl alcohol 70%	26022021	1
Apotheke	Isopropyl alcohol 70%	2815E-01080	1
Apotheke	Isopropyl alcohol 70%	4813Q-0180	1
Apotheke	Isopropyl alcohol 70%	6062013	1
Apotheke	Isopropyl alcohol 70%	70214/51Dre	1
ASS	Isopropyl alcohol 70%	314A01080	1
Aug. Hedinger GmbH & Co...	Isopropyl alcohol 70%	53814	1
Aug. Hedinger GmbH / Gehe	Isopropyl alcohol 70%	53672	1
Aug. Hedinger/ Sanacorp	Isopropyl alcohol 70%	53418	1
Aug. Hedinger/	Isopropyl alcohol 70%	53588	1
Aug. Hedinger/Sanacorp	Isopropyl alcohol 70%	53550	4
Aug. Hedinger	Isopropyl alcohol 70%	53385	2
Aug.Hedinger GmbH&Co.KG	Isopropyl alcohol 70%	53470	1
Aug.Hedinger GmbH	Isopropyl alcohol 70%	303159	1
Aug.Hedinger/All.Health.	Isopropyl alcohol 70%	53557	1
Aug.Hedinger/All.Health.	Isopropyl alcohol 70%	53569	1
Aug.Hedinger/All.Health.	Isopropyl alcohol 70%	53599	1
Aug.Hedinger/Noweda	Isopropyl alcohol 70%	53582	1
Aug.Hedinger/Noweda	Isopropyl alcohol 70%	53623	1
Aug.Hedinger/Noweda	Isopropyl alcohol 70%	53657	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Aug.Hedinger/Noweda	Isopropyl alcohol 70%	53680	1
Aug.Hedinger/Sanacorp	Isopropyl alcohol 70%	53429	1
Aug.Hedinger	Isopropyl alcohol 70%	53508	1
Aug.Hedinger	Isopropyl alcohol 70%	53548	1
Aug.Hedinger	Isopropyl alcohol 70%	53710	1
August Hedinger GmbH/ G...	Isopropyl alcohol 70%	53700	2
August Hedinger GmbH/ G...	Isopropyl alcohol 70%	53703	1
August Hedinger GmbH/ G...	Isopropyl alcohol 70%	53743	1
Azur GmbH	Isopropyl alcohol 70%	70-9204780	1
Azur GmbH	Isopropyl alcohol 70%	70-920480	6
Bären Apotheke	Isopropyl alcohol 70%	1917Q-01080	1
bartel	Isopropyl alcohol 70%	53611	3
bartel	Isopropyl alcohol 70%	53612	1
Belous	Isopropyl alcohol 70%	2023001	2
Berliner Bär Apotheke	Isopropyl alcohol 70%	H819091	2
bison	Isopropyl alcohol 70%	317H4	1
Bison	Isopropyl alcohol 70%	517H2	1
Bombastus	Isopropyl alcohol 70%	16319201	1
Bombastus	Isopropyl alcohol 70%	175131	1
Bombastus	Isopropyl alcohol 70%	2813Q-01080	1
Bombastus	Isopropyl alcohol 70%	53322	1
Bombastus	Isopropyl alcohol 70%	53485	2
Braun / Sanacorp	Isopropyl alcohol 70%	19043M11	1
Braun	Isopropyl alcohol 70%	17441M01	1
Brinn- Holtz	Isopropyl alcohol 70%	1233-04/18	1
Brinn-Holtz	Isopropyl alcohol 70%	1288-09/18	1
Brugger	Isopropyl alcohol 70%	21112013	1
C.Lange	Isopropyl alcohol 70%	50817/50La	1
C.Lange	Isopropyl alcohol 70%	60307/51La	1
Caelo	Isopropyl alcohol 70%		6
Caelo	Isopropyl alcohol 70%	10091802	1
Caelo	Isopropyl alcohol 70%	1016A	1
Caelo	Isopropyl alcohol 70%	1061701	1
Caelo	Isopropyl alcohol 70%	11031406	1
Caelo	Isopropyl alcohol 70%	11031704	1
Caelo	Isopropyl alcohol 70%	11051501	1
Caelo	Isopropyl alcohol 70%	113363003	1
Caelo	Isopropyl alcohol 70%	1160113	1
Caelo	Isopropyl alcohol 70%	116M-01080	1
Caelo	Isopropyl alcohol 70%	12031514	1
Caelo	Isopropyl alcohol 70%	12031801	1
Caelo	Isopropyl alcohol 70%	12101301	1
Caelo	Isopropyl alcohol 70%	12121306	1
Caelo	Isopropyl alcohol 70%	12136201	1
Caelo	Isopropyl alcohol 70%	12136303	6
Caelo	Isopropyl alcohol 70%	12202801	1
Caelo	Isopropyl alcohol 70%	12202902	1
Caelo	Isopropyl alcohol 70%	12278601	4
Caelo	Isopropyl alcohol 70%	12278702	1
Caelo	Isopropyl alcohol 70%	12278704	2
Caelo	Isopropyl alcohol 70%	12338001	1
Caelo	Isopropyl alcohol 70%	12338101	1
Caelo	Isopropyl alcohol 70%	12338104	3
Caelo	Isopropyl alcohol 70%	123456789	1
Caelo	Isopropyl alcohol 70%	130009002	1
Caelo	Isopropyl alcohol 70%	130009003	1
Caelo	Isopropyl alcohol 70%	13008902	2
Caelo	Isopropyl alcohol 70%	13008903	2
Caelo	Isopropyl alcohol 70%	13009003	1
Caelo	Isopropyl alcohol 70%	13031304	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol 70%	13041701	1
Caelo	Isopropyl alcohol 70%	13092201	1
Caelo	Isopropyl alcohol 70%	13092202	1
Caelo	Isopropyl alcohol 70%	13092203	3
Caelo	Isopropyl alcohol 70%	13155401	2
Caelo	Isopropyl alcohol 70%	13155403	3
Caelo	Isopropyl alcohol 70%	13155503	5
Caelo	Isopropyl alcohol 70%	13217501	1
Caelo	Isopropyl alcohol 70%	13217602	1
Caelo	Isopropyl alcohol 70%	13217603	2
Caelo	Isopropyl alcohol 70%	13319404	2
Caelo	Isopropyl alcohol 70%	13319405	3
Caelo	Isopropyl alcohol 70%	13319502	1
Caelo	Isopropyl alcohol 70%	13337004	1
Caelo	Isopropyl alcohol 70%	13363001	1
Caelo	Isopropyl alcohol 70%	13363003	2
Caelo	Isopropyl alcohol 70%	13363101	2
Caelo	Isopropyl alcohol 70%	13363104	1
Caelo	Isopropyl alcohol 70%	13363107	1
Caelo	Isopropyl alcohol 70%	140226402	1
Caelo	Isopropyl alcohol 70%	14026303	2
Caelo	Isopropyl alcohol 70%	14026401	5
Caelo	Isopropyl alcohol 70%	14026403	3
Caelo	Isopropyl alcohol 70%	14041501	1
Caelo	Isopropyl alcohol 70%	14041802	1
Caelo	Isopropyl alcohol 70%	140505	1
Caelo	Isopropyl alcohol 70%	14074205	1
Caelo	Isopropyl alcohol 70%	14076501	2
Caelo	Isopropyl alcohol 70%	14076503	2
Caelo	Isopropyl alcohol 70%	14076602	6
Caelo	Isopropyl alcohol 70%	14076603	2
Caelo	Isopropyl alcohol 70%	140902	1
Caelo	Isopropyl alcohol 70%	14101303	1
Caelo	Isopropyl alcohol 70%	14101402	1
Caelo	Isopropyl alcohol 70%	141117P801/17203002	1
Caelo	Isopropyl alcohol 70%	14114501	3
Caelo	Isopropyl alcohol 70%	14114601	1
Caelo	Isopropyl alcohol 70%	14121205	1
Caelo	Isopropyl alcohol 70%	14146701	3
Caelo	Isopropyl alcohol 70%	14146703	1
Caelo	Isopropyl alcohol 70%	14146801	3
Caelo	Isopropyl alcohol 70%	14146802	1
Caelo	Isopropyl alcohol 70%	14146803	6
Caelo	Isopropyl alcohol 70%	14146804	1
Caelo	Isopropyl alcohol 70%	1416702	1
Caelo	Isopropyl alcohol 70%	141t46801	1
Caelo	Isopropyl alcohol 70%	14229101	3
Caelo	Isopropyl alcohol 70%	14229103	2
Caelo	Isopropyl alcohol 70%	14229201	2
Caelo	Isopropyl alcohol 70%	14229202	1
Caelo	Isopropyl alcohol 70%	14327203	1
Caelo	Isopropyl alcohol 70%	14330802	1
Caelo	Isopropyl alcohol 70%	14330803	3
Caelo	Isopropyl alcohol 70%	14330901	3
Caelo	Isopropyl alcohol 70%	14330902	1
Caelo	Isopropyl alcohol 70%	14331003	5
Caelo	Isopropyl alcohol 70%	14331004	2
Caelo	Isopropyl alcohol 70%	15014101	1
Caelo	Isopropyl alcohol 70%	15014102	3
Caelo	Isopropyl alcohol 70%	15014202	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol 70%	15014204	1
Caelo	Isopropyl alcohol 70%	15014301	1
Caelo	Isopropyl alcohol 70%	15014302	2
Caelo	Isopropyl alcohol 70%	15021802	1
Caelo	Isopropyl alcohol 70%	15031803	1
Caelo	Isopropyl alcohol 70%	15053505	1
Caelo	Isopropyl alcohol 70%	15076401	2
Caelo	Isopropyl alcohol 70%	15076601	1
Caelo	Isopropyl alcohol 70%	15076602	7
Caelo	Isopropyl alcohol 70%	15076603	2
Caelo	Isopropyl alcohol 70%	15111304	1
Caelo	Isopropyl alcohol 70%	15150201	1
Caelo	Isopropyl alcohol 70%	15150202	4
Caelo	Isopropyl alcohol 70%	1517A-01080	1
Caelo	Isopropyl alcohol 70%	15191902	3
Caelo	Isopropyl alcohol 70%	15192001	2
Caelo	Isopropyl alcohol 70%	15192002	4
Caelo	Isopropyl alcohol 70%	15192003	2
Caelo	Isopropyl alcohol 70%	15192101	4
Caelo	Isopropyl alcohol 70%	15192102	2
Caelo	Isopropyl alcohol 70%	15248503	1
Caelo	Isopropyl alcohol 70%	15308201	1
Caelo	Isopropyl alcohol 70%	15309001	5
Caelo	Isopropyl alcohol 70%	15309101	1
Caelo	Isopropyl alcohol 70%	15309201	2
Caelo	Isopropyl alcohol 70%	15403802	8
Caelo	Isopropyl alcohol 70%	15403902	1
Caelo	Isopropyl alcohol 70%	15404002	2
Caelo	Isopropyl alcohol 70%	15430002	1
Caelo	Isopropyl alcohol 70%	15430004	2
Caelo	Isopropyl alcohol 70%	15430005	1
Caelo	Isopropyl alcohol 70%	15437601	10
Caelo	Isopropyl alcohol 70%	15437701	1
Caelo	Isopropyl alcohol 70%	15437703	1
Caelo	Isopropyl alcohol 70%	15437801	1
Caelo	Isopropyl alcohol 70%	15437802	3
Caelo	Isopropyl alcohol 70%	16049003	1
Caelo	Isopropyl alcohol 70%	16052014-100	1
Caelo	Isopropyl alcohol 70%	16071503	1
Caelo	Isopropyl alcohol 70%	16088201	4
Caelo	Isopropyl alcohol 70%	16088302	6
Caelo	Isopropyl alcohol 70%	16088403	3
Caelo	Isopropyl alcohol 70%	16121402	1
Caelo	Isopropyl alcohol 70%	16138703	1
Caelo	Isopropyl alcohol 70%	1613q-01080	1
Caelo	Isopropyl alcohol 70%	1614001	1
Caelo	Isopropyl alcohol 70%	16167601	4
Caelo	Isopropyl alcohol 70%	16167801	1
Caelo	Isopropyl alcohol 70%	16167802	2
Caelo	Isopropyl alcohol 70%	16167803	2
Caelo	Isopropyl alcohol 70%	16167901	2
Caelo	Isopropyl alcohol 70%	16167902	7
Caelo	Isopropyl alcohol 70%	16202803	1
Caelo	Isopropyl alcohol 70%	16237302	1
Caelo	Isopropyl alcohol 70%	16296604	1
Caelo	Isopropyl alcohol 70%	16318901	3
Caelo	Isopropyl alcohol 70%	16319001	6
Caelo	Isopropyl alcohol 70%	16319021	1
Caelo	Isopropyl alcohol 70%	16319101	6
Caelo	Isopropyl alcohol 70%	16319102	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol 70%	163191102	1
Caelo	Isopropyl alcohol 70%	16319201	7
Caelo	Isopropyl alcohol 70%	16319202	2
Caelo	Isopropyl alcohol 70%	17033801	1
Caelo	Isopropyl alcohol 70%	17045801	1
Caelo	Isopropyl alcohol 70%	17082101	5
Caelo	Isopropyl alcohol 70%	17082102	5
Caelo	Isopropyl alcohol 70%	17082103	7
Caelo	Isopropyl alcohol 70%	17082201	3
Caelo	Isopropyl alcohol 70%	17082302	6
Caelo	Isopropyl alcohol 70%	17082303	4
Caelo	Isopropyl alcohol 70%	172003002	1
Caelo	Isopropyl alcohol 70%	17202801	7
Caelo	Isopropyl alcohol 70%	17202802	1
Caelo	Isopropyl alcohol 70%	17202901	3
Caelo	Isopropyl alcohol 70%	17202903	6
Caelo	Isopropyl alcohol 70%	17203001	6
Caelo	Isopropyl alcohol 70%	17203002	3
Caelo	Isopropyl alcohol 70%	17203002/1271117	1
Caelo	Isopropyl alcohol 70%	17203101	5
Caelo	Isopropyl alcohol 70%	17311402	5
Caelo	Isopropyl alcohol 70%	17311403	6
Caelo	Isopropyl alcohol 70%	17311701	1
Caelo	Isopropyl alcohol 70%	173441	1
Caelo	Isopropyl alcohol 70%	17358201	16
Caelo	Isopropyl alcohol 70%	17358202	3
Caelo	Isopropyl alcohol 70%	174321	1
Caelo	Isopropyl alcohol 70%	18031503	1
Caelo	Isopropyl alcohol 70%	18051801	1
Caelo	Isopropyl alcohol 70%	18061306	1
Caelo	Isopropyl alcohol 70%	18061508	1
Caelo	Isopropyl alcohol 70%	180621006	1
Caelo	Isopropyl alcohol 70%	18073701	4
Caelo	Isopropyl alcohol 70%	18073702	14
Caelo	Isopropyl alcohol 70%	18073702/1170418	1
Caelo	Isopropyl alcohol 70%	18073801	1
Caelo	Isopropyl alcohol 70%	18073901	7
Caelo	Isopropyl alcohol 70%	18073902	11
Caelo	Isopropyl alcohol 70%	18081510	1
Caelo	Isopropyl alcohol 70%	18081511	1
Caelo	Isopropyl alcohol 70%	18101301	1
Caelo	Isopropyl alcohol 70%	18114001	15
Caelo	Isopropyl alcohol 70%	18114101	5
Caelo	Isopropyl alcohol 70%	18114202	14
Caelo	Isopropyl alcohol 70%	18114301	5
Caelo	Isopropyl alcohol 70%	18114302	2
Caelo	Isopropyl alcohol 70%	18199101	1
Caelo	Isopropyl alcohol 70%	18200201	1
Caelo	Isopropyl alcohol 70%	18235001	2
Caelo	Isopropyl alcohol 70%	18235002	2
Caelo	Isopropyl alcohol 70%	18235003	5
Caelo	Isopropyl alcohol 70%	18235101	4
Caelo	Isopropyl alcohol 70%	18235201	15
Caelo	Isopropyl alcohol 70%	18235202	5
Caelo	Isopropyl alcohol 70%	18235301	2
Caelo	Isopropyl alcohol 70%	18235302	8
Caelo	Isopropyl alcohol 70%	182731	2
Caelo	Isopropyl alcohol 70%	18307901	4
Caelo	Isopropyl alcohol 70%	18308001	10
Caelo	Isopropyl alcohol 70%	18308002	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol 70%	18308101	12
Caelo	Isopropyl alcohol 70%	18308202	5
Caelo	Isopropyl alcohol 70%	18308203	2
Caelo	Isopropyl alcohol 70%	184741	1
Caelo	Isopropyl alcohol 70%	190261801	1
Caelo	Isopropyl alcohol 70%	19071801	1
Caelo	Isopropyl alcohol 70%	19071802	1
Caelo	Isopropyl alcohol 70%	19078704	16
Caelo	Isopropyl alcohol 70%	19078801	4
Caelo	Isopropyl alcohol 70%	19078901	1
Caelo	Isopropyl alcohol 70%	19079001	12
Caelo	Isopropyl alcohol 70%	19111401	1
Caelo	Isopropyl alcohol 70%	19138501	9
Caelo	Isopropyl alcohol 70%	19138601	25
Caelo	Isopropyl alcohol 70%	191386601	1
Caelo	Isopropyl alcohol 70%	19138701	4
Caelo	Isopropyl alcohol 70%	19138801	2
Caelo	Isopropyl alcohol 70%	19138802	1
Caelo	Isopropyl alcohol 70%	1915A-01080	1
Caelo	Isopropyl alcohol 70%	19261801	15
Caelo	Isopropyl alcohol 70%	19261901	2
Caelo	Isopropyl alcohol 70%	192620002	2
Caelo	Isopropyl alcohol 70%	192621001	5
Caelo	Isopropyl alcohol 70%	193622	1
Caelo	Isopropyl alcohol 70%	20001612001	4
Caelo	Isopropyl alcohol 70%	20001612002	4
Caelo	Isopropyl alcohol 70%	20001613001	14
Caelo	Isopropyl alcohol 70%	20001614001	3
Caelo	Isopropyl alcohol 70%	20001615001	7
Caelo	Isopropyl alcohol 70%	2000273002	1
Caelo	Isopropyl alcohol 70%	20002771001	2
Caelo	Isopropyl alcohol 70%	20002772001	10
Caelo	Isopropyl alcohol 70%	20002773001	1
Caelo	Isopropyl alcohol 70%	20002773002	4
Caelo	Isopropyl alcohol 70%	20003389001	4
Caelo	Isopropyl alcohol 70%	20003391001	3
Caelo	Isopropyl alcohol 70%	20003392001	1
Caelo	Isopropyl alcohol 70%	20011503	1
Caelo	Isopropyl alcohol 70%	20021414	1
Caelo	Isopropyl alcohol 70%	20021415	1
Caelo	Isopropyl alcohol 70%	20021506	1
Caelo	Isopropyl alcohol 70%	2002772001	1
Caelo	Isopropyl alcohol 70%	20061801	1
Caelo	Isopropyl alcohol 70%	20091302	1
Caelo	Isopropyl alcohol 70%	20121701	1
Caelo	Isopropyl alcohol 70%	2015181201E0	1
Caelo	Isopropyl alcohol 70%	2041501	1
Caelo	Isopropyl alcohol 70%	2081202	1
Caelo	Isopropyl alcohol 70%	2081701	1
Caelo	Isopropyl alcohol 70%	21000886001	1
Caelo	Isopropyl alcohol 70%	21000887001	1
Caelo	Isopropyl alcohol 70%	21000888001	1
Caelo	Isopropyl alcohol 70%	21000888002	1
Caelo	Isopropyl alcohol 70%	21000889001	7
Caelo	Isopropyl alcohol 70%	210009001	1
Caelo	Isopropyl alcohol 70%	21002601001	4
Caelo	Isopropyl alcohol 70%	21002603001	3
Caelo	Isopropyl alcohol 70%	21003307001	1
Caelo	Isopropyl alcohol 70%	21003309001	1
Caelo	Isopropyl alcohol 70%	21081701	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol 70%	21081702	1
Caelo	Isopropyl alcohol 70%	21081801	1
Caelo	Isopropyl alcohol 70%	21114103	1
Caelo	Isopropyl alcohol 70%	2171-01080	1
Caelo	Isopropyl alcohol 70%	22001157001	1
Caelo	Isopropyl alcohol 70%	22011901	1
Caelo	Isopropyl alcohol 70%	22021303	1
Caelo	Isopropyl alcohol 70%	22051301	1
Caelo	Isopropyl alcohol 70%	221111205	1
Caelo	Isopropyl alcohol 70%	22111701	1
Caelo	Isopropyl alcohol 70%	2216M-01080	1
Caelo	Isopropyl alcohol 70%	23041304	1
Caelo	Isopropyl alcohol 70%	23061501	1
Caelo	Isopropyl alcohol 70%	23061707	1
Caelo	Isopropyl alcohol 70%	2314E-01080	1
Caelo	Isopropyl alcohol 70%	24011405	1
Caelo	Isopropyl alcohol 70%	24081207	1
Caelo	Isopropyl alcohol 70%	24081303	1
Caelo	Isopropyl alcohol 70%	24101203	1
Caelo	Isopropyl alcohol 70%	24101804	1
Caelo	Isopropyl alcohol 70%	2415Q-01080	1
Caelo	Isopropyl alcohol 70%	25081401	1
Caelo	Isopropyl alcohol 70%	25091402	1
Caelo	Isopropyl alcohol 70%	2512A-01080	1
Caelo	Isopropyl alcohol 70%	253487	1
Caelo	Isopropyl alcohol 70%	2600887T	1
Caelo	Isopropyl alcohol 70%	2600907T	1
Caelo	Isopropyl alcohol 70%	2600980T	1
Caelo	Isopropyl alcohol 70%	2601004T	1
Caelo	Isopropyl alcohol 70%	2601025T	1
Caelo	Isopropyl alcohol 70%	26071401	1
Caelo	Isopropyl alcohol 70%	2616E-01080	1
Caelo	Isopropyl alcohol 70%	27031704	1
Caelo	Isopropyl alcohol 70%	2716I-01080	1
Caelo	Isopropyl alcohol 70%	28091701	1
Caelo	Isopropyl alcohol 70%	29011805	1
Caelo	Isopropyl alcohol 70%	2916A-01080	1
Caelo	Isopropyl alcohol 70%	2x053426	1
Caelo	Isopropyl alcohol 70%	30101801	1
Caelo	Isopropyl alcohol 70%	303033	1
Caelo	Isopropyl alcohol 70%	303101	1
Caelo	Isopropyl alcohol 70%	303126	1
Caelo	Isopropyl alcohol 70%	305201801	1
Caelo	Isopropyl alcohol 70%	3081605	1
Caelo	Isopropyl alcohol 70%	3091302	1
Caelo	Isopropyl alcohol 70%	3115E-01080	1
Caelo	Isopropyl alcohol 70%	3216E	2
Caelo	Isopropyl alcohol 70%	3414E-01080	1
Caelo	Isopropyl alcohol 70%	4051704	1
Caelo	Isopropyl alcohol 70%	41161-01080	1
Caelo	Isopropyl alcohol 70%	4116104	1
Caelo	Isopropyl alcohol 70%	4118012	1
Caelo	Isopropyl alcohol 70%	4118013	1
Caelo	Isopropyl alcohol 70%	47141-01080	2
Caelo	Isopropyl alcohol 70%	4813E-01080	1
Caelo	Isopropyl alcohol 70%	4914A-01080	1
Caelo	Isopropyl alcohol 70%	5051702	1
Caelo	Isopropyl alcohol 70%	5061501	1
Caelo	Isopropyl alcohol 70%	5121814	1
Caelo	Isopropyl alcohol 70%	5309	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol 70%	53141-01080	1
Caelo	Isopropyl alcohol 70%	53241	1
Caelo	Isopropyl alcohol 70%	53324	1
Caelo	Isopropyl alcohol 70%	53332	1
Caelo	Isopropyl alcohol 70%	53353	2
Caelo	Isopropyl alcohol 70%	53359	1
Caelo	Isopropyl alcohol 70%	53367	1
Caelo	Isopropyl alcohol 70%	53369	1
Caelo	Isopropyl alcohol 70%	53378	1
Caelo	Isopropyl alcohol 70%	53383	1
Caelo	Isopropyl alcohol 70%	53385	1
Caelo	Isopropyl alcohol 70%	53392	1
Caelo	Isopropyl alcohol 70%	53395	1
Caelo	Isopropyl alcohol 70%	53396	1
Caelo	Isopropyl alcohol 70%	53398	2
Caelo	Isopropyl alcohol 70%	53401	3
Caelo	Isopropyl alcohol 70%	53404	1
Caelo	Isopropyl alcohol 70%	53408	1
Caelo	Isopropyl alcohol 70%	53413	1
Caelo	Isopropyl alcohol 70%	53415	1
Caelo	Isopropyl alcohol 70%	53416	1
Caelo	Isopropyl alcohol 70%	53426	1
Caelo	Isopropyl alcohol 70%	53428	1
Caelo	Isopropyl alcohol 70%	53437	2
Caelo	Isopropyl alcohol 70%	53444	2
Caelo	Isopropyl alcohol 70%	53465	2
Caelo	Isopropyl alcohol 70%	53474	1
Caelo	Isopropyl alcohol 70%	53475	1
Caelo	Isopropyl alcohol 70%	53476	1
Caelo	Isopropyl alcohol 70%	534825599	1
Caelo	Isopropyl alcohol 70%	53488	1
Caelo	Isopropyl alcohol 70%	53493	3
Caelo	Isopropyl alcohol 70%	53496	1
Caelo	Isopropyl alcohol 70%	53498	1
Caelo	Isopropyl alcohol 70%	53500	2
Caelo	Isopropyl alcohol 70%	53513	2
Caelo	Isopropyl alcohol 70%	53518	1
Caelo	Isopropyl alcohol 70%	53524	1
Caelo	Isopropyl alcohol 70%	53527	2
Caelo	Isopropyl alcohol 70%	53530	1
Caelo	Isopropyl alcohol 70%	53540	1
Caelo	Isopropyl alcohol 70%	53551	1
Caelo	Isopropyl alcohol 70%	53565	1
Caelo	Isopropyl alcohol 70%	53567	1
Caelo	Isopropyl alcohol 70%	53578	2
Caelo	Isopropyl alcohol 70%	53589	1
Caelo	Isopropyl alcohol 70%	53613	1
Caelo	Isopropyl alcohol 70%	53802	1
Caelo	Isopropyl alcohol 70%	53810	1
Caelo	Isopropyl alcohol 70%	6041407	1
Caelo	Isopropyl alcohol 70%	6061401	1
Caelo	Isopropyl alcohol 70%	6081405	1
Caelo	Isopropyl alcohol 70%	6111701	1
Caelo	Isopropyl alcohol 70%	6111702	1
Caelo	Isopropyl alcohol 70%	7021307	1
Caelo	Isopropyl alcohol 70%	7082013/1	1
Caelo	Isopropyl alcohol 70%	720Q04043	1
Caelo	Isopropyl alcohol 70%	8011901	1
Caelo	Isopropyl alcohol 70%	8091702	1
Caelo	Isopropyl alcohol 70%	8111802	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl alcohol 70%	817J01080	1
Caelo	Isopropyl alcohol 70%	820M-01080	1
Caelo	Isopropyl alcohol 70%	9011801	1
Caelo	Isopropyl alcohol 70%	9071701	1
Caelo	Isopropyl alcohol 70%	9171-01080	1
Caelo	Isopropyl alcohol 70%	AL313	1
Caelo	Isopropyl alcohol 70%	Caelo	1
Caelo	Isopropyl alcohol 70%	Caesar/21002601001	1
Caelo	Isopropyl alcohol 70%	Eigenherstellung	1
Caelo	Isopropyl alcohol 70%	H030315T1	1
Caelo	Isopropyl alcohol 70%	H170315T1	1
Caelo	Isopropyl alcohol 70%	H22062013H1	1
Caelo	Isopropyl alcohol 70%	RH141030-0003	1
Caeolo/Phoenix	Isopropyl alcohol 70%	18235202	1
Caesar & Loretz GmbH / ...	Isopropyl alcohol 70%	18307901	1
Caesar & Loretz GmbH / ...	Isopropyl alcohol 70%	18308203	2
Caesar & Loretz GmbH / ...	Isopropyl alcohol 70%	19138701	1
Caesar & Loretz GmbH Sa...	Isopropyl alcohol 70%	20002771001	1
Caesar & Loretz GmbH/ G...	Isopropyl alcohol 70%	20003391001	2
Caesar & Loretz GmbH/An...	Isopropyl alcohol 70%	19138601	1
Caesar & Loretz GmbH/Gege	Isopropyl alcohol 70%	21000889001	1
Caesar & Loretz GmbH/Gehe	Isopropyl alcohol 70%	20001613001	1
Caesar & Loretz GmbH/Gehe	Isopropyl alcohol 70%	21000888001	1
Caesar & Loretz GmbH/Kr...	Isopropyl alcohol 70%	19138601	1
Caesar & Loretz GmbH/No...	Isopropyl alcohol 70%	18308001	1
Caesar & Loretz GmbH/Ph...	Isopropyl alcohol 70%	20003389001	4
Caesar & Loretz GmbH/Sa...	Isopropyl alcohol 70%	19078901	1
Caesar & Loretz GmbH/Sa...	Isopropyl alcohol 70%	19261901	1
Caesar & Loretz GmbH/Sp...	Isopropyl alcohol 70%	19138501	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	18235101	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	18307901	2
Caesar & Loretz GmbH	Isopropyl alcohol 70%	18308001	2
Caesar & Loretz GmbH	Isopropyl alcohol 70%	18308101	4
Caesar & Loretz GmbH	Isopropyl alcohol 70%	18308202	3
Caesar & Loretz GmbH	Isopropyl alcohol 70%	19078704	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	19078901	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	19079001	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	19138501	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	19138601	2
Caesar & Loretz GmbH	Isopropyl alcohol 70%	19261801	5
Caesar & Loretz GmbH	Isopropyl alcohol 70%	20000215002	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	20001612002	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	20001613001	3
Caesar & Loretz GmbH	Isopropyl alcohol 70%	20002770001	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	20002772001	2
Caesar & Loretz GmbH	Isopropyl alcohol 70%	20002773002	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	20003390001	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	20003391001	7
Caesar & Loretz GmbH	Isopropyl alcohol 70%	21000888002	4
Caesar & Loretz GmbH	Isopropyl alcohol 70%	21000889001	2
Caesar & Loretz GmbH	Isopropyl alcohol 70%	21002601001	2
Caesar & Loretz GmbH	Isopropyl alcohol 70%	21002602001	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	21002603001	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	21003307001	1
Caesar & Loretz GmbH	Isopropyl alcohol 70%	22000735001	1
Caesar & Loretz	Isopropyl alcohol 70%	20001615001	1
Caesar&Loretz/Gehe	Isopropyl alcohol 70%	20001613001	1
Caleo/ Ebert	Isopropyl alcohol 70%	18114202	2
Caleo/ Noweda	Isopropyl alcohol 70%	17202802	1
Caleo/ Noweda	Isopropyl alcohol 70%	18114101	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caolo	Isopropyl alcohol 70%	D07104T1	1
carina certain	Isopropyl alcohol 70%	11097	1
Cealo/Sancorp	Isopropyl alcohol 70%	19138601	1
Cealo	Isopropyl alcohol 70%	14146801	1
Cealo	Isopropyl alcohol 70%	22042020/1	1
Celo/Jenne	Isopropyl alcohol 70%	19261801	2
Celo	Isopropyl alcohol 70%	16167802	1
CL. LANGE	Isopropyl alcohol 70%	50921/51LA	1
Claudia Lange	Isopropyl alcohol 70%	60620/50La	1
Claudia Lange	Isopropyl alcohol 70%	60620/51La	1
Claudia Lange	Isopropyl alcohol 70%	60704/50La	1
Defectur	Isopropyl alcohol 70%	1008210521	1
Defektur / Wolf-Apotheke	Isopropyl alcohol 70%	50828/50Wlo	1
Defektur 1616E-01080	Isopropyl alcohol 70%	1616E-01080	1
Defektur 25.04.2014	Isopropyl alcohol 70%	2014-04-25	1
Defektur 4416A-01080	Isopropyl alcohol 70%	4416A-01080	1
Defektur 4814N-01080	Isopropyl alcohol 70%	4814N-01080	2
Defektur Rheinbogen Apo...	Isopropyl alcohol 70%	1/20192005	1
Defektur/eigen	Isopropyl alcohol 70%	1416Q-01080	1
Defektur/eigen	Isopropyl alcohol 70%	2216A-01080	1
Defektur/eigen	Isopropyl alcohol 70%	2816M-01080	1
Defektur/eigen	Isopropyl alcohol 70%	3016E-01080	1
Defektur/eigen	Isopropyl alcohol 70%	3216I-01080	1
Defektur/Wolf Apotheke	Isopropyl alcohol 70%	4621E-01080	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	121Q-01080	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	1721M-01080	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	2321A-01080	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	3012A-01080	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	3521E-01080	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	3821E-01080	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	40509/50Wo	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	4320I-01080	2
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	50103/50Wlo	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	50227/50Wlo	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	50313/50Wlo	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	50330/50Wlo	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	50715/50Wlo	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	61215/50Dre	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	721A-01080	1
Defektur/Wolf-Apotheke	Isopropyl alcohol 70%	921A-01080	1
Defektur	Isopropyl alcohol 70%		5
Defektur	Isopropyl alcohol 70%	100513Iso70	1
Defektur	Isopropyl alcohol 70%	1013210816	1
Defektur	Isopropyl alcohol 70%	1017211015	1
Defektur	Isopropyl alcohol 70%	1029220119	1
Defektur	Isopropyl alcohol 70%	12/15	1
Defektur	Isopropyl alcohol 70%	1214I	1
Defektur	Isopropyl alcohol 70%	1215A	1
Defektur	Isopropyl alcohol 70%	121Q-01080	1
Defektur	Isopropyl alcohol 70%	14/14	1
Defektur	Isopropyl alcohol 70%	1414I	1
Defektur	Isopropyl alcohol 70%	1415M-01080	1
Defektur	Isopropyl alcohol 70%	1467/2014072920	1
Defektur	Isopropyl alcohol 70%	151113Iso70	1
Defektur	Isopropyl alcohol 70%	1516M-01080	1
Defektur	Isopropyl alcohol 70%	16/13	1
Defektur	Isopropyl alcohol 70%	170109002	1
Defektur	Isopropyl alcohol 70%	170529002	1
Defektur	Isopropyl alcohol 70%	1716A-01080	1
Defektur	Isopropyl alcohol 70%	180413Iso70	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Defektur	Isopropyl alcohol 70%	1LP20200605	1
Defektur	Isopropyl alcohol 70%	1SW20150917	1
Defektur	Isopropyl alcohol 70%	2/13	1
Defektur	Isopropyl alcohol 70%	2/14	1
Defektur	Isopropyl alcohol 70%	2/15	1
Defektur	Isopropyl alcohol 70%	200313Iso70	1
Defektur	Isopropyl alcohol 70%	2020M-01080	1
Defektur	Isopropyl alcohol 70%	21012013	1
Defektur	Isopropyl alcohol 70%	210613Iso70	1
Defektur	Isopropyl alcohol 70%	217Q-01080	1
Defektur	Isopropyl alcohol 70%	22/13	1
Defektur	Isopropyl alcohol 70%	22/14	1
Defektur	Isopropyl alcohol 70%	220321	1
Defektur	Isopropyl alcohol 70%	2216B-01080	1
Defektur	Isopropyl alcohol 70%	2220Q-01080	1
DEFEKTUR	Isopropyl alcohol 70%	2314M-01080	2
Defektur	Isopropyl alcohol 70%	23712	1
Defektur	Isopropyl alcohol 70%	250713Iso70	1
Defektur	Isopropyl alcohol 70%	27/13	1
Defektur	Isopropyl alcohol 70%	2717I-07125	1
Defektur	Isopropyl alcohol 70%	28/14	1
Defektur	Isopropyl alcohol 70%	280513Iso70	1
Defektur	Isopropyl alcohol 70%	2812M-01080	1
Defektur	Isopropyl alcohol 70%	290813Iso70	1
Defektur	Isopropyl alcohol 70%	2915E	1
Defektur	Isopropyl alcohol 70%	3019A-01080	1
Defektur	Isopropyl alcohol 70%	320Q-01080	1
Defektur	Isopropyl alcohol 70%	34/14	1
Defektur	Isopropyl alcohol 70%	37/13	1
Defektur	Isopropyl alcohol 70%	37/14	1
Defektur	Isopropyl alcohol 70%	3713Q-01080	1
Defektur	Isopropyl alcohol 70%	3715Q	1
Defektur	Isopropyl alcohol 70%	3812	1
Defektur	Isopropyl alcohol 70%	3819I-01080	1
Defektur	Isopropyl alcohol 70%	4114I	1
Defektur	Isopropyl alcohol 70%	4115Q	1
Defektur	Isopropyl alcohol 70%	4118A-01080	1
Defektur	Isopropyl alcohol 70%	4119M-01080	1
Defektur	Isopropyl alcohol 70%	42/13	1
Defektur	Isopropyl alcohol 70%	43/14	1
Defektur	Isopropyl alcohol 70%	4315Q-01080	1
Defektur	Isopropyl alcohol 70%	4415A-01080	1
Defektur	Isopropyl alcohol 70%	4517M-01080	1
Defektur	Isopropyl alcohol 70%	4714M	1
Defektur	Isopropyl alcohol 70%	4917A-01080	1
Defektur	Isopropyl alcohol 70%	5013A	1
Defektur	Isopropyl alcohol 70%	50907/50Si	1
Defektur	Isopropyl alcohol 70%	51/13	1
Defektur	Isopropyl alcohol 70%	514A	1
Defektur	Isopropyl alcohol 70%	5214A	1
Defektur	Isopropyl alcohol 70%	53/12	1
Defektur	Isopropyl alcohol 70%	58/13	1
Defektur	Isopropyl alcohol 70%	60209/50Hk	1
Defektur	Isopropyl alcohol 70%	620M-01080	1
Defektur	Isopropyl alcohol 70%	7/14	1
Defektur	Isopropyl alcohol 70%	71016/52Dre	1
Defektur	Isopropyl alcohol 70%	719I-01080	1
Defektur	Isopropyl alcohol 70%	80114Iso70	1
Defektur	Isopropyl alcohol 70%	80625/50Al	1
Defektur	Isopropyl alcohol 70%	819060	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Defektur	Isopropyl alcohol 70%	9/13	1
Defektur	Isopropyl alcohol 70%	996201204	1
Defektur	Isopropyl alcohol 70%	H17042013B1	1
Defektur	Isopropyl alcohol 70%	H2017A-01080	1
Defektur_EW_04062013	Isopropyl alcohol 70%	130604002	1
Defektur_JP_07012013	Isopropyl alcohol 70%	213A-07015	1
Defektur_JP_25022013	Isopropyl alcohol 70%	913A-07015	1
Defektur_JP_28012013	Isopropyl alcohol 70%	513A-07015	1
Defekur	Isopropyl alcohol 70%	516Q-01080	1
Delphin-Apotheke/Defektur	Isopropyl alcohol 70%	1521M-01080	1
Delphin-Apotheke/Defektur	Isopropyl alcohol 70%	1721M-01080	1
Delphin-Apotheke/Defektur	Isopropyl alcohol 70%	4721A-01080	1
Delphin-Apotheke/Defektur	Isopropyl alcohol 70%	522A-01080	1
Delphin-Apotheke/Defektur	Isopropyl alcohol 70%	822A-01080	1
Delphin-Apotheke	Isopropyl alcohol 70%	1120A-01080	1
Delphin-Apotheke	Isopropyl alcohol 70%	1520I-01080	1
Delphin-Apotheke	Isopropyl alcohol 70%	1920Q-01080	1
Delphin-Apotheke	Isopropyl alcohol 70%	2620Q-01080	1
Delphin-Apotheke	Isopropyl alcohol 70%	3220I-01080	1
Delphin-Apotheke	Isopropyl alcohol 70%	3920I-01080	1
Delphin-Apotheke	Isopropyl alcohol 70%	921A-01080	1
Delta	Isopropyl alcohol 70%	18073702	1
Delta	Isopropyl alcohol 70%	53451	1
Delta	Isopropyl alcohol 70%	53510	1
Deselaers Carola	Isopropyl alcohol 70%	1720A-01080	1
Deselaers Carola	Isopropyl alcohol 70%	620M-01080	1
Deselaers	Isopropyl alcohol 70%	3218Q-01080	1
Deselaers	Isopropyl alcohol 70%	4518R-01080	1
Deselaers	Isopropyl alcohol 70%	4519Q-01080	1
Deselaers	Isopropyl alcohol 70%	519Q-01080	1
Doppeleiche Apotheke	Isopropyl alcohol 70%	200518004	1
Doppeleiche Apotheke	Isopropyl alcohol 70%	200703003	1
Doppeleiche Apotheke	Isopropyl alcohol 70%	200910005	1
Doppeleiche Apotheke	Isopropyl alcohol 70%	3013A-01080	1
Doppeleiche Apotheke	Isopropyl alcohol 70%	3413M-01080	1
Doppeleiche Apotheke	Isopropyl alcohol 70%	4012M-01080	1
Doppeleiche Apotheke	Isopropyl alcohol 70%	4912M-01080	1
Doppeleiche Apotheke	Isopropyl alcohol 70%	913A-01080	1
Dreier	Isopropyl alcohol 70%	20052019	1
Duburg-Apo	Isopropyl alcohol 70%	521E-01080	1
Ebert/Hedinger	Isopropyl alcohol 70%	53526	1
Ebert/Hedinger	Isopropyl alcohol 70%	53550	1
Eiegn/Defektur	Isopropyl alcohol 70%	616E-01080	1
Eigen /Defektur	Isopropyl alcohol 70%	2619E-01080	1
Eigen Defektur	Isopropyl alcohol 70%	1016E-01080	1
Eigen Defektur	Isopropyl alcohol 70%	316Q-01080	1
Eigen Löwen Apothke	Isopropyl alcohol 70%	4220I-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	1116M-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	1916M-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	216A-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	216M-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	2316I-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	2516I-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	2616Q-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	2716A-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	3016M-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	3419Q-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	3515A-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	3516M-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	4215M-01080	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Eigen/Defektur	Isopropyl alcohol 70%	4715E-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	4815Q-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	5015A-01080	1
Eigen/Defektur	Isopropyl alcohol 70%	716M-01080	1
Eigen	Isopropyl alcohol 70%		1
EIGEN	Isopropyl alcohol 70%		3
eigen	Isopropyl alcohol 70%	116E-01080	1
eigen	Isopropyl alcohol 70%	116G-01080	1
EIGEN	Isopropyl alcohol 70%	1234567	1
Eigen	Isopropyl alcohol 70%	1317N-01080	2
Eigen	Isopropyl alcohol 70%	1920M-01080	1
Eigen	Isopropyl alcohol 70%	200325X-S	1
Eigen	Isopropyl alcohol 70%	200325Y-S	1
Eigen	Isopropyl alcohol 70%	200325Z-S	1
Eigen	Isopropyl alcohol 70%	2416M-01080	1
Eigen	Isopropyl alcohol 70%	2908-1705	1
Eigen	Isopropyl alcohol 70%	3116M-01080	1
Eigen	Isopropyl alcohol 70%	320I-01080	1
Eigen	Isopropyl alcohol 70%	3320A-01080Defektur	1
Eigen	Isopropyl alcohol 70%	3615A-01080	1
eigen	Isopropyl alcohol 70%	3615I-01080	1
Eigen	Isopropyl alcohol 70%	3616M-01080	2
Eigen	Isopropyl alcohol 70%	3914A-01080	1
EIGEN	Isopropyl alcohol 70%	4117E-01080	1
EIGEN	Isopropyl alcohol 70%	4117I-01080	1
Eigen	Isopropyl alcohol 70%	4215E-01080	1
EIGEN	Isopropyl alcohol 70%	4220E-01080	1
Eigen	Isopropyl alcohol 70%	4413A-01080	1
Eigen	Isopropyl alcohol 70%	5216E-01079	1
Eigen	Isopropyl alcohol 70%	5315I-01080	1
Eigen	Isopropyl alcohol 70%	Eigen	2
EIGEN	Isopropyl alcohol 70%	EIGEN	3
Eigenbedarf (Hergestel...	Isopropyl alcohol 70%	260613	1
Eigene Defektur	Isopropyl alcohol 70%	5119M-01080	2
Eigene Herstellung	Isopropyl alcohol 70%	1019Q-01080	1
eigene Herstellung	Isopropyl alcohol 70%	1201-15	1
Eigene Herstellung	Isopropyl alcohol 70%	1919A-01080	1
Eigene Herstellung	Isopropyl alcohol 70%	2619A-01080	1
eigene Herstellung	Isopropyl alcohol 70%	3013M-01080	1
Eigene Herstellung	Isopropyl alcohol 70%	4119Q-01080	1
eigene Herstellung	Isopropyl alcohol 70%	5210115	1
eigene Herstellung	Isopropyl alcohol 70%	91215	1
eigene herstellung	Isopropyl alcohol 70%	al308	1
eigene herstellung	Isopropyl alcohol 70%	al309	1
Eigene Herstellung	Isopropyl alcohol 70%	AL310	1
Eigene Herstellung	Isopropyl alcohol 70%	AL311	1
Eigene Herstellung	Isopropyl alcohol 70%	AL312	1
eigene herstellung	Isopropyl alcohol 70%	AL314	2
Eigene Herstellung	Isopropyl alcohol 70%	Al315	1
Eigene Herstellung	Isopropyl alcohol 70%	AL316	1
Eigene Herstellung	Isopropyl alcohol 70%	Al317	1
Eigene Herstellung	Isopropyl alcohol 70%	AL318	1
Eigene Herstellung	Isopropyl alcohol 70%	AL319	1
Eigene Herstellung	Isopropyl alcohol 70%	AL320	1
eigene Herstellung	Isopropyl alcohol 70%	AL321	1
Eigene Herstellung	Isopropyl alcohol 70%	H03092021	1
Eigene	Isopropyl alcohol 70%		1
Eigene	Isopropyl alcohol 70%	121Q-01080	1
Eigene	Isopropyl alcohol 70%	1521Q-01080	1
Eigene	Isopropyl alcohol 70%	1620Q-01080	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
eigene	Isopropyl alcohol 70%	200326W-S	1
eigene	Isopropyl alcohol 70%	200326X-S	1
eigene	Isopropyl alcohol 70%	200326Y-S	1
eigene	Isopropyl alcohol 70%	200326Z-S	1
Eigene	Isopropyl alcohol 70%	2818Q-01080	1
Eigene	Isopropyl alcohol 70%	3019U-01371	1
Eigene	Isopropyl alcohol 70%	3815A-01080	1
Eigene	Isopropyl alcohol 70%	AP200611-01	1
Eigenherstellung Hubert...	Isopropyl alcohol 70%	2014072221(DF)	1
Eigenherstellung	Isopropyl alcohol 70%		3
Eigenherstellung	Isopropyl alcohol 70%	1020F-01080	1
Eigenherstellung	Isopropyl alcohol 70%	1-11122014	1
Eigenherstellung	Isopropyl alcohol 70%	1-20082014	1
Eigenherstellung	Isopropyl alcohol 70%	1215M-01080	1
Eigenherstellung	Isopropyl alcohol 70%	1-23102014	1
Eigenherstellung	Isopropyl alcohol 70%	141120-1	1
Eigenherstellung	Isopropyl alcohol 70%	1416E-01080	1
Eigenherstellung	Isopropyl alcohol 70%	1513A-01080	1
Eigenherstellung	Isopropyl alcohol 70%	17036	2
EIGENHERSTELLUNG	Isopropyl alcohol 70%	1717A-01080	1
Eigenherstellung	Isopropyl alcohol 70%	1720E-01080	1
Eigenherstellung	Isopropyl alcohol 70%	1815E-01080	1
Eigenherstellung	Isopropyl alcohol 70%	1823	1
EIGENHERSTELLUNG	Isopropyl alcohol 70%	19012017	1
Eigenherstellung	Isopropyl alcohol 70%	190620-01	1
Eigenherstellung	Isopropyl alcohol 70%	1916A	1
Eigenherstellung	Isopropyl alcohol 70%	1953	1
Eigenherstellung	Isopropyl alcohol 70%	200822-02	1
Eigenherstellung	Isopropyl alcohol 70%	2015E-01080	1
Eigenherstellung	Isopropyl alcohol 70%	2016040520KS	1
Eigenherstellung	Isopropyl alcohol 70%	2019A-01080	1
Eigenherstellung	Isopropyl alcohol 70%	216M-01080	1
Eigenherstellung	Isopropyl alcohol 70%	2216E-01080	1
Eigenherstellung	Isopropyl alcohol 70%	23/15	2
Eigenherstellung	Isopropyl alcohol 70%	2419Q-01080	1
Eigenherstellung	Isopropyl alcohol 70%	26107	1
Eigenherstellung	Isopropyl alcohol 70%	2620A-01080	1
Eigenherstellung	Isopropyl alcohol 70%	2716I_01080	1
Eigenherstellung	Isopropyl alcohol 70%	28072014	1
Eigenherstellung	Isopropyl alcohol 70%	3116I-01080	1
eigenherstellung	Isopropyl alcohol 70%	3116Q-03043	1
Eigenherstellung	Isopropyl alcohol 70%	316E	1
Eigenherstellung	Isopropyl alcohol 70%	3215E-01080	1
Eigenherstellung	Isopropyl alcohol 70%	3313Q-01080	1
EIGENHERSTELLUNG	Isopropyl alcohol 70%	3315I_01080	1
Eigenherstellung	Isopropyl alcohol 70%	3414E-01080	1
Eigenherstellung	Isopropyl alcohol 70%	3520A-01080	1
Eigenherstellung	Isopropyl alcohol 70%	3917A-01080	1
Eigenherstellung	Isopropyl alcohol 70%	4015A-0108	1
Eigenherstellung	Isopropyl alcohol 70%	4022016-01	1
Eigenherstellung	Isopropyl alcohol 70%	4114Q-01080	1
EIgenherstellung	Isopropyl alcohol 70%	4115A-01080	1
Eigenherstellung	Isopropyl alcohol 70%	4515Q-01080	1
Eigenherstellung	Isopropyl alcohol 70%	4715M	1
Eigenherstellung	Isopropyl alcohol 70%	4716Q-01080	1
Eigenherstellung	Isopropyl alcohol 70%	5015Q-01080	1
Eigenherstellung	Isopropyl alcohol 70%	5018I-01080	1
Eigenherstellung	Isopropyl alcohol 70%	5114M-01080	1
EIGENHERSTELLUNG	Isopropyl alcohol 70%	5115A-01080	1
Eigenherstellung	Isopropyl alcohol 70%	515E-01080	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Eigenherstellung	Isopropyl alcohol 70%	517Q-01080	1
Eigenherstellung	Isopropyl alcohol 70%	9010813	1
Eigenherstellung	Isopropyl alcohol 70%	9051212	1
Eigenherstellung	Isopropyl alcohol 70%	9070313	1
Eigenherstellung	Isopropyl alcohol 70%	9091115	1
Eigenherstellung	Isopropyl alcohol 70%	9100414	1
Eigenherstellung	Isopropyl alcohol 70%	9211215	1
Eigenherstellung	Isopropyl alcohol 70%	9230413	1
Eigenherstellung	Isopropyl alcohol 70%	9261114	1
Eigenherstellung	Isopropyl alcohol 70%	9270215	1
Eigenherstellung	Isopropyl alcohol 70%	eigene	1
Eigenherstellung	Isopropyl alcohol 70%	Eigenherstellung	2
Eigenproduktion	Isopropyl alcohol 70%		2
Eigenproduktion	Isopropyl alcohol 70%	1016E-01080	1
Eigenproduktion	Isopropyl alcohol 70%	1217Q-01080	1
Eigenproduktion	Isopropyl alcohol 70%	2413E-01080	1
Eigenproduktion	Isopropyl alcohol 70%	2417Q-01080	1
Eigenproduktion	Isopropyl alcohol 70%	2720A-01080	1
Eigenproduktion	Isopropyl alcohol 70%	3216A-01080	1
Eigenproduktion	Isopropyl alcohol 70%	360921A	1
Eigenproduktion	Isopropyl alcohol 70%	3617E-01080	1
Eigenrezeptur	Isopropyl alcohol 70%	4616A-01080	1
Eigenrezeptur	Isopropyl alcohol 70%	4616E-01080	1
Engel-Apotheke	Isopropyl alcohol 70%	2519A-01080	1
Euro OCT	Isopropyl alcohol 70%	200214	1
Euro OTC	Isopropyl alcohol 70%	2600973T	1
Euro OTC	Isopropyl alcohol 70%	4012Q-01080	1
Euro OTC	Isopropyl alcohol 70%	53245	1
Euro OTC	Isopropyl alcohol 70%	53398	1
Euro OTC	Isopropyl alcohol 70%	53442	1
Euro OTC	Isopropyl alcohol 70%	53467	2
EuroPTC/Phönix	Isopropyl alcohol 70%	15076401	2
Fagron	Isopropyl alcohol 70%		1
Fagron	Isopropyl alcohol 70%	1234	1
Fagron	Isopropyl alcohol 70%	13009002	1
Fagron	Isopropyl alcohol 70%	15076501	1
Fagron	Isopropyl alcohol 70%	17311701	1
Fagron	Isopropyl alcohol 70%	18114202	2
Fagron	Isopropyl alcohol 70%	18J01-B05-364080	1
Fagron	Isopropyl alcohol 70%	4114104	1
Fagron	Isopropyl alcohol 70%	53279	1
Fagron	Isopropyl alcohol 70%	53411	3
Fagron	Isopropyl alcohol 70%	53526	1
Fiebig/ Hedinger	Isopropyl alcohol 70%	53343	1
Fiebig/ O. Fischar	Isopropyl alcohol 70%	4110901	1
Fiebig/ O. Fischar	Isopropyl alcohol 70%	4119091	8
Fiebig/ O. Fischar	Isopropyl alcohol 70%	4119092	6
Fiebig/ O. Fischar	Isopropyl alcohol 70%	4119101	2
Fiebig/Hedinger	Isopropyl alcohol 70%	53336	1
Fiebig/Hedinger	Isopropyl alcohol 70%	53360	1
Fiebig/Hedinger	Isopropyl alcohol 70%	53400	1
Fiebig/Hedinger	Isopropyl alcohol 70%	53445	1
Fiebig/Hedinger	Isopropyl alcohol 70%	53475	1
Fiebig/Hedinger	Isopropyl alcohol 70%	53600	1
Fiebig/Hedinger	Isopropyl alcohol 70%	53607	4
Fiebig/Hedinger	Isopropyl alcohol 70%	53611	2
Fiebig/Hedinger	Isopropyl alcohol 70%	53612	1
Fiebig	Isopropyl alcohol 70%	18308001	1
Fiebig	Isopropyl alcohol 70%	4116123	1
Fiebig	Isopropyl alcohol 70%	4117103	13

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Isopropyl alcohol 70%	4117124	9
Fiebig	Isopropyl alcohol 70%	4117125	7
Fiebig	Isopropyl alcohol 70%	4118011	10
Fiebig	Isopropyl alcohol 70%	4118012	4
Fiebig	Isopropyl alcohol 70%	4118051	5
Fiebig	Isopropyl alcohol 70%	4118052	4
Fiebig	Isopropyl alcohol 70%	4118053	11
Fiebig	Isopropyl alcohol 70%	4118063	10
Fiebig	Isopropyl alcohol 70%	4118071	16
Fiebig	Isopropyl alcohol 70%	4118073	4
Fiebig	Isopropyl alcohol 70%	4118074	1
Fiebig	Isopropyl alcohol 70%	4118092	4
Fiebig	Isopropyl alcohol 70%	4118094	3
Fiebig	Isopropyl alcohol 70%	4118102	3
Fiebig	Isopropyl alcohol 70%	4118104	8
Fiebig	Isopropyl alcohol 70%	4118113	11
Fiebig	Isopropyl alcohol 70%	4118114	12
Fiebig	Isopropyl alcohol 70%	4119011	15
Fiebig	Isopropyl alcohol 70%	4119012	8
Fiebig	Isopropyl alcohol 70%	4119026	3
Fiebig	Isopropyl alcohol 70%	4119041	2
Fiebig	Isopropyl alcohol 70%	4119043	10
Fiebig	Isopropyl alcohol 70%	4119062	4
Fiebig	Isopropyl alcohol 70%	4119063	7
Fiebig	Isopropyl alcohol 70%	4119064	14
Fiebig	Isopropyl alcohol 70%	4119065	6
Fiebig	Isopropyl alcohol 70%	4119073	1
Fiebig	Isopropyl alcohol 70%	53475	1
Fiebig	Isopropyl alcohol 70%	53478	3
Fiebig	Isopropyl alcohol 70%	53482	3
Fiebig	Isopropyl alcohol 70%	53504	1
Fiebig	Isopropyl alcohol 70%	53505	5
Fiebig	Isopropyl alcohol 70%	53509	1
Fiebig	Isopropyl alcohol 70%	53525	1
Fiebig	Isopropyl alcohol 70%	53526	1
Fiebig	Isopropyl alcohol 70%	53527	1
Fiebig	Isopropyl alcohol 70%	53529	1
Fiebig	Isopropyl alcohol 70%	53539	2
Fiebig	Isopropyl alcohol 70%	53542	1
Fiebig	Isopropyl alcohol 70%	53545	1
Fiebig	Isopropyl alcohol 70%	53550	3
Fiebig	Isopropyl alcohol 70%	53552	2
Fiebig	Isopropyl alcohol 70%	53556	1
Fiebig	Isopropyl alcohol 70%	53559	1
Fiebig	Isopropyl alcohol 70%	53562	3
Fiebig	Isopropyl alcohol 70%	53573	2
Fiebig	Isopropyl alcohol 70%	53576	1
Fiebig	Isopropyl alcohol 70%	53586	1
Fiebig	Isopropyl alcohol 70%	53587	1
Finteler Apotheke	Isopropyl alcohol 70%	53425	1
Fischar / Anzag	Isopropyl alcohol 70%	4115073	1
Fischar / Jenne	Isopropyl alcohol 70%	4110035	1
Fischar / Phoenix	Isopropyl alcohol 70%	4110053	2
Fischar / Phoenix	Isopropyl alcohol 70%	4110056	1
Fischar / Phoenix	Isopropyl alcohol 70%	4110091	1
Fischar / Phoenix	Isopropyl alcohol 70%	4110094	1
Fischar / Phoenix	Isopropyl alcohol 70%	4111031	1
Fischar / Phoenix	Isopropyl alcohol 70%	4111051	1
Fischar / Phönix	Isopropyl alcohol 70%	4118101	1
Fischar/Fiebig	Isopropyl alcohol 70%	4117064	8

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar/Fiebig	Isopropyl alcohol 70%	4117065	12
Fischar/Fiebig	Isopropyl alcohol 70%	4117121	7
Fischar/Phoenix	Isopropyl alcohol 70%	4110022	1
Fischar/Phoenix	Isopropyl alcohol 70%	4111064	1
Fischar/Phoenix	Isopropyl alcohol 70%	4111107	1
Fischar/Phoenix	Isopropyl alcohol 70%	4117091	1
Fischar/Phönix	Isopropyl alcohol 70%	4110012	1
Fischar/Phönix	Isopropyl alcohol 70%	4117126	1
Fischar/Phönix	Isopropyl alcohol 70%	4118073	1
Fischar/Phönix	Isopropyl alcohol 70%	4119026	2
Fischar/Sanacorp	Isopropyl alcohol 70%	4114044	1
Fischar	Isopropyl alcohol 70%	2183	1
Fischar	Isopropyl alcohol 70%	4110022	1
Fischar	Isopropyl alcohol 70%	4110053	1
Fischar	Isopropyl alcohol 70%	4114041	1
Fischar	Isopropyl alcohol 70%	4114064	1
Fischar	Isopropyl alcohol 70%	4114082	1
Fischar	Isopropyl alcohol 70%	4115061	1
Fischar	Isopropyl alcohol 70%	4115062	1
Fischar	Isopropyl alcohol 70%	4116044	1
Fischar	Isopropyl alcohol 70%	4116123	1
Fischar	Isopropyl alcohol 70%	4116125	2
Fischar	Isopropyl alcohol 70%	4117022	2
Fischar	Isopropyl alcohol 70%	4117043	1
Fischar	Isopropyl alcohol 70%	4117052	2
Fischar	Isopropyl alcohol 70%	4117062	1
Fischar	Isopropyl alcohol 70%	4117064	1
Fischar	Isopropyl alcohol 70%	4117065	1
Fischar	Isopropyl alcohol 70%	4117082	1
Fischar	Isopropyl alcohol 70%	4117122	3
fischar	Isopropyl alcohol 70%	4118011	1
fischar	Isopropyl alcohol 70%	4118022	1
fischar	Isopropyl alcohol 70%	4118032	2
Fischar	Isopropyl alcohol 70%	4118051	1
fischar	Isopropyl alcohol 70%	4118053	4
fischar	Isopropyl alcohol 70%	4118111	4
fischar	Isopropyl alcohol 70%	4119012	3
Fischar	Isopropyl alcohol 70%	4119012	2
fischar	Isopropyl alcohol 70%	4119021	3
fischar	Isopropyl alcohol 70%	4119041	1
Fischar	Isopropyl alcohol 70%	4119041	1
Fischar	Isopropyl alcohol 70%	4119042	1
Fischar	Isopropyl alcohol 70%	4119043	1
Fischar	Isopropyl alcohol 70%	4119063	1
Fischar	Isopropyl alcohol 70%	4119071	2
Fischer/Phoenix	Isopropyl alcohol 70%	4118013	2
Franz GmbH, Phoenix	Isopropyl alcohol 70%	53426	1
Frau Hennies	Isopropyl alcohol 70%	240216	1
Gehe Hedinger	Isopropyl alcohol 70%	53448	1
Gehe 07.12.18	Isopropyl alcohol 70%	18235302	1
GEHE am 16.08.2014	Isopropyl alcohol 70%	53297	1
GEHE am 17.06.2014	Isopropyl alcohol 70%	53286	1
Gehe/ Hedinger	Isopropyl alcohol 70%	53494/1300518	1
GEHE/ HEDINGER	Isopropyl alcohol 70%	53622	1
Gehe/Hedinger	Isopropyl alcohol 70%	53310	1
Gehe/Hedinger	Isopropyl alcohol 70%	53370	1
Gehe/Hedinger	Isopropyl alcohol 70%	53379	1
Gehe/Hedinger	Isopropyl alcohol 70%	53421	1
Gehe/Hedinger	Isopropyl alcohol 70%	53461	1
Gehe/Hedinger	Isopropyl alcohol 70%	53473	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe/Hedinger	Isopropyl alcohol 70%	53647	1
Gehe/Hedinger	Isopropyl alcohol 70%	83366	1
Gehe/Hedinger26.04.16	Isopropyl alcohol 70%	53359	1
Gehe/Hedinger29.08.2016	Isopropyl alcohol 70%	53372	1
Gehe/Phönix	Isopropyl alcohol 70%	12338001	2
Gehe/Phönix	Isopropyl alcohol 70%	136363003	1
Gehe/Phönix	Isopropyl alcohol 70%	14229101	1
Gehe	Isopropyl alcohol 70%	11370004	3
GEHE	Isopropyl alcohol 70%	12037601	1
Gehe	Isopropyl alcohol 70%	14026402	4
Gehe	Isopropyl alcohol 70%	15014302	1
Gehe	Isopropyl alcohol 70%	15192002	1
Gehe	Isopropyl alcohol 70%	15309001	1
Gehe	Isopropyl alcohol 70%	15309101	1
Gehe	Isopropyl alcohol 70%	15404001	1
Gehe	Isopropyl alcohol 70%	15437601	1
Gehe	Isopropyl alcohol 70%	16088302	2
Gehe	Isopropyl alcohol 70%	16167701	1
Gehe	Isopropyl alcohol 70%	16167902	1
Gehe	Isopropyl alcohol 70%	16318901	1
Gehe	Isopropyl alcohol 70%	16319001	2
GEHE	Isopropyl alcohol 70%	16319001	1
Gehe	Isopropyl alcohol 70%	17202903	1
Gehe	Isopropyl alcohol 70%	17203101	1
Gehe	Isopropyl alcohol 70%	17358201	1
Gehe	Isopropyl alcohol 70%	17358202	1
Gehe	Isopropyl alcohol 70%	18073702	1
Gehe	Isopropyl alcohol 70%	18073901	1
Gehe	Isopropyl alcohol 70%	18073902	1
Gehe	Isopropyl alcohol 70%	18074001	1
Gehe	Isopropyl alcohol 70%	18114001	2
GEHE	Isopropyl alcohol 70%	18114001	1
Gehe	Isopropyl alcohol 70%	18114101	2
GEHE	Isopropyl alcohol 70%	18114101	1
Gehe	Isopropyl alcohol 70%	18114301	1
Gehe	Isopropyl alcohol 70%	18235202	3
GEHE	Isopropyl alcohol 70%	18235301	1
Gehe	Isopropyl alcohol 70%	18308101	1
Gehe	Isopropyl alcohol 70%	18308202	1
Gehe	Isopropyl alcohol 70%	19078704	1
Gehe	Isopropyl alcohol 70%	19138501	1
Gehe	Isopropyl alcohol 70%	19261801	1
Gehe	Isopropyl alcohol 70%	194231	1
Gehe	Isopropyl alcohol 70%	213741	1
GEHE	Isopropyl alcohol 70%	221160/3	1
Gehe	Isopropyl alcohol 70%	310170118132/70	1
Gehe	Isopropyl alcohol 70%	53264	1
Gehe	Isopropyl alcohol 70%	53290	1
Gehe	Isopropyl alcohol 70%	53391	1
Gehe	Isopropyl alcohol 70%	53408	1
GEHE	Isopropyl alcohol 70%	53420	2
GEHE	Isopropyl alcohol 70%	53491	1
Gehe	Isopropyl alcohol 70%	53516	1
Gehe	Isopropyl alcohol 70%	53552	1
Gehe	Isopropyl alcohol 70%	53559	2
Gehe	Isopropyl alcohol 70%	53565	1
Gehe	Isopropyl alcohol 70%	53600	1
Gehe	Isopropyl alcohol 70%	53769	1
Gehe	Isopropyl alcohol 70%	53777	2
GEHE	Isopropyl alcohol 70%	603117000	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Geibo/Hedinger	Isopropyl alcohol 70%	53505	1
Geibo/Teofarma	Isopropyl alcohol 70%	140004	1
Geibo	Isopropyl alcohol 70%	183541	1
geiger	Isopropyl alcohol 70%	2213E-01080	1
Geilenkirchen/Hedinger	Isopropyl alcohol 70%	53382	1
Geilenkirchen/Hedinger	Isopropyl alcohol 70%	53383	1
Geilenkirchen/Hedinger	Isopropyl alcohol 70%	53404	1
Germania Apo	Isopropyl alcohol 70%	315032	1
GUMO/04.04.2013	Isopropyl alcohol 70%	2600726T	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	130206004	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	130327003	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	130725001	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	130813006	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	130912001	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	140612014	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	3212I-01080	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	3812E-01080	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	4212A-01080	1
Gutenberg-Apotheke	Isopropyl alcohol 70%	4612I-01080	1
hadinger/allianz	Isopropyl alcohol 70%	53420	1
Hedinge/AHD	Isopropyl alcohol 70%	53703	1
Hedinge/AHD	Isopropyl alcohol 70%	53709	1
Hedinger / 2	Isopropyl alcohol 70%	53348	1
Hedinger / AHD	Isopropyl alcohol 70%	53378	1
Hedinger / AHD	Isopropyl alcohol 70%	53499	1
Hedinger / AHD	Isopropyl alcohol 70%	53572	1
Hedinger / AHD	Isopropyl alcohol 70%	53687	1
Hedinger / Anzag	Isopropyl alcohol 70%	53529	1
Hedinger / Anzag	Isopropyl alcohol 70%	53551	1
Hedinger / Gehe	Isopropyl alcohol 70%	303059	1
Hedinger / Gehe	Isopropyl alcohol 70%	53337	1
Hedinger / Gehe	Isopropyl alcohol 70%	53452	1
Hedinger / Gehe	Isopropyl alcohol 70%	53465	1
Hedinger / Gehe	Isopropyl alcohol 70%	53506	2
Hedinger / Gehe	Isopropyl alcohol 70%	53696	1
Hedinger / Kehr	Isopropyl alcohol 70%	53359	1
Hedinger / Noweda	Isopropyl alcohol 70%	53266	1
Hedinger / Noweda	Isopropyl alcohol 70%	53267	1
Hedinger / Noweda	Isopropyl alcohol 70%	53300	1
Hedinger / Noweda	Isopropyl alcohol 70%	5331	1
Hedinger / Noweda	Isopropyl alcohol 70%	53321	1
Hedinger / Noweda	Isopropyl alcohol 70%	53324	1
HEDINGER / Noweda	Isopropyl alcohol 70%	53340	1
Hedinger / Noweda	Isopropyl alcohol 70%	53385	1
Hedinger / Noweda	Isopropyl alcohol 70%	53387	2
Hedinger / Noweda	Isopropyl alcohol 70%	53443	1
Hedinger / Noweda	Isopropyl alcohol 70%	53453	1
Hedinger / Noweda	Isopropyl alcohol 70%	53461	1
Hedinger / Noweda	Isopropyl alcohol 70%	53476	1
Hedinger / Noweda	Isopropyl alcohol 70%	53525	1
Hedinger / Noweda	Isopropyl alcohol 70%	53528	1
Hedinger / Noweda	Isopropyl alcohol 70%	53552	1
Hedinger / Noweda	Isopropyl alcohol 70%	53557	1
Hedinger / Noweda	Isopropyl alcohol 70%	53598	1
Hedinger / Phoenix	Isopropyl alcohol 70%	53561	1
Hedinger / Phönix	Isopropyl alcohol 70%	53266	1
Hedinger / Phönix	Isopropyl alcohol 70%	53290	1
Hedinger / Phönix	Isopropyl alcohol 70%	53295	2
Hedinger / Phönix	Isopropyl alcohol 70%	53309	1
Hedinger / Phönix	Isopropyl alcohol 70%	53326	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger / Phönix	Isopropyl alcohol 70%	53413	1
Hedinger / Phönix	Isopropyl alcohol 70%	53430	1
Hedinger / Phönix	Isopropyl alcohol 70%	53442	1
Hedinger / Sanacorp	Isopropyl alcohol 70%	503549	1
Hedinger / Sanacorp	Isopropyl alcohol 70%	53407	1
Hedinger / Sanacorp	Isopropyl alcohol 70%	53465	1
Hedinger / Sanacorp	Isopropyl alcohol 70%	53483	1
Hedinger / Sanacorp	Isopropyl alcohol 70%	53491	1
Hedinger / Sanacorp	Isopropyl alcohol 70%	53638	1
Hedinger / Sanacorp	Isopropyl alcohol 70%	53690	1
hedinger /AHD	Isopropyl alcohol 70%	535045666	1
Hedinger /Sanacorp WE: ...	Isopropyl alcohol 70%	53338	1
Hedinger Gehe	Isopropyl alcohol 70%	53473	1
Hedinger Gehe	Isopropyl alcohol 70%	53476	1
Hedinger Gehe	Isopropyl alcohol 70%	53517	1
Hedinger Gehe	Isopropyl alcohol 70%	53536	1
Hedinger Gehe	Isopropyl alcohol 70%	53549	1
Hedinger GmbH & Co. KG/...	Isopropyl alcohol 70%	53328	1
Hedinger GmbH & Co. KG/...	Isopropyl alcohol 70%	53329	1
Hedinger GmbH & Co. KG	Isopropyl alcohol 70%	303172	1
Hedinger GmbH & Co. KG	Isopropyl alcohol 70%	53515	1
Hedinger GmbH/Alliance ...	Isopropyl alcohol 70%	303137	1
Hedinger GmbH/Sanacorp	Isopropyl alcohol 70%	53452	1
Hedinger GmbH	Isopropyl alcohol 70%	303212	1
Hedinger Jenne	Isopropyl alcohol 70%	53417	1
Hedinger Jenne	Isopropyl alcohol 70%	53435	1
Hedinger Jenne	Isopropyl alcohol 70%	53441	1
Hedinger/ AHD	Isopropyl alcohol 70%	53482	1
Hedinger/ AHD	Isopropyl alcohol 70%	53495	2
Hedinger/ AHD	Isopropyl alcohol 70%	53509	1
Hedinger/ Anzag	Isopropyl alcohol 70%	53499	1
Hedinger/ Anzag	Isopropyl alcohol 70%	53508	2
Hedinger/ Anzag	Isopropyl alcohol 70%	53514	2
Hedinger/ Gehe	Isopropyl alcohol 70%	53354	1
Hedinger/ Gehe	Isopropyl alcohol 70%	53653	1
Hedinger/ Gehe	Isopropyl alcohol 70%	53654	1
Hedinger/ Gehe	Isopropyl alcohol 70%	53667	1
Hedinger/ Gehe	Isopropyl alcohol 70%	53682	11
Hedinger/ Gehe	Isopropyl alcohol 70%	53703	1
Hedinger/ Gehe	Isopropyl alcohol 70%	53743	1
Hedinger/ Gehe	Isopropyl alcohol 70%	53754	1
Hedinger/ Gehe	Isopropyl alcohol 70%	53755	1
Hedinger/ Gehe	Isopropyl alcohol 70%	53756	1
Hedinger/ Gehe	Isopropyl alcohol 70%	53758	1
Hedinger/ Jenne	Isopropyl alcohol 70%	53680	1
Hedinger/ Kehr	Isopropyl alcohol 70%	53377	4
Hedinger/ Kehr	Isopropyl alcohol 70%	53429	1
Hedinger/ Noweda	Isopropyl alcohol 70%	22092001	1
Hedinger/ Noweda	Isopropyl alcohol 70%	30062001	1
Hedinger/ Noweda	Isopropyl alcohol 70%	303058	2
Hedinger/ Noweda	Isopropyl alcohol 70%	53440	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53480	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53499	1
Hedinger/ NOWEDA	Isopropyl alcohol 70%	53527	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53529	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53534	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53545	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53561	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53567	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53571	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/ Noweda	Isopropyl alcohol 70%	53581	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53598	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53602	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53603	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53607	1
Hedinger/ NOWEDA	Isopropyl alcohol 70%	53616	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53653	2
Hedinger/ Noweda	Isopropyl alcohol 70%	53673	2
Hedinger/ NOWEDA	Isopropyl alcohol 70%	53704	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53717	1
Hedinger/ Noweda	Isopropyl alcohol 70%	53739	2
Hedinger/ PH	Isopropyl alcohol 70%	53687	1
Hedinger/ Phoenix	Isopropyl alcohol 70%	53413	1
Hedinger/ Phönix	Isopropyl alcohol 70%	53536	1
Hedinger/ Phönix	Isopropyl alcohol 70%	53578	1
Hedinger/ Phönix	Isopropyl alcohol 70%	53651	2
Hedinger/ phönix	Isopropyl alcohol 70%	53672	2
Hedinger/ phönix	Isopropyl alcohol 70%	53688	1
Hedinger/ phönix	Isopropyl alcohol 70%	53692	1
Hedinger/ Phönix	Isopropyl alcohol 70%	53695	7
Hedinger/ Phönix	Isopropyl alcohol 70%	53705	2
Hedinger/ phönix	Isopropyl alcohol 70%	53708	1
Hedinger/ phönix	Isopropyl alcohol 70%	53713	2
Hedinger/ Phönix	Isopropyl alcohol 70%	53733	4
Hedinger/ Phönix	Isopropyl alcohol 70%	53735	1
Hedinger/ Phönix	Isopropyl alcohol 70%	53741	8
Hedinger/ sana	Isopropyl alcohol 70%	53702	2
Hedinger/ Sana	Isopropyl alcohol 70%	53703	1
Hedinger/ Sana	Isopropyl alcohol 70%	53718	2
Hedinger/ Sanacorp Lüb...	Isopropyl alcohol 70%	53591	1
Hedinger/ Sanacorp Lüb...	Isopropyl alcohol 70%	53668	1
Hedinger/ Sanacorp	Isopropyl alcohol 70%	53354	1
Hedinger/ Sanacorp	Isopropyl alcohol 70%	53360	1
Hedinger/ Sanacorp	Isopropyl alcohol 70%	53382	1
Hedinger/ Sanacorp	Isopropyl alcohol 70%	53398	1
Hedinger/ Sanacorp	Isopropyl alcohol 70%	53509	1
hedinger/ Sanacorp	Isopropyl alcohol 70%	535105725	1
hedinger/ Sanacorp	Isopropyl alcohol 70%	535265764	1
Hedinger/ Sanacorp	Isopropyl alcohol 70%	53607	1
Hedinger/	Isopropyl alcohol 70%	53594	1
Hedinger/	Isopropyl alcohol 70%	53600	1
Hedinger/	Isopropyl alcohol 70%	53664	1
Hedinger/	Isopropyl alcohol 70%	53694	1
Hedinger/	Isopropyl alcohol 70%	53696	1
Hedinger/1	Isopropyl alcohol 70%	53355	1
HEDINGER/1	Isopropyl alcohol 70%	53525	1
HEDINGER/1	Isopropyl alcohol 70%	53565	1
HEDINGER/1	Isopropyl alcohol 70%	53603	1
Hedinger/AHD	Isopropyl alcohol 70%	53265	1
Hedinger/AHD	Isopropyl alcohol 70%	53268	1
Hedinger/AHD	Isopropyl alcohol 70%	53277	1
Hedinger/AHD	Isopropyl alcohol 70%	53290	1
Hedinger/AHD	Isopropyl alcohol 70%	53310	1
Hedinger/AHD	Isopropyl alcohol 70%	53322	1
Hedinger/AHD	Isopropyl alcohol 70%	53326	1
Hedinger/AHD	Isopropyl alcohol 70%	53340	1
Hedinger/AHD	Isopropyl alcohol 70%	53346	1
Hedinger/AHD	Isopropyl alcohol 70%	53355	1
Hedinger/AHD	Isopropyl alcohol 70%	53371	1
Hedinger/AHD	Isopropyl alcohol 70%	53376	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/AHD	Isopropyl alcohol 70%	53392	1
Hedinger/AHD	Isopropyl alcohol 70%	53399	1
Hedinger/AHD	Isopropyl alcohol 70%	53404	1
Hedinger/AHD	Isopropyl alcohol 70%	53407	1
Hedinger/AHD	Isopropyl alcohol 70%	53420	1
Hedinger/AHD	Isopropyl alcohol 70%	53426	1
Hedinger/AHD	Isopropyl alcohol 70%	53435	1
Hedinger/AHD	Isopropyl alcohol 70%	53438	2
Hedinger/AHD	Isopropyl alcohol 70%	53444	1
Hedinger/AHD	Isopropyl alcohol 70%	53462	1
Hedinger/AHD	Isopropyl alcohol 70%	53466	2
Hedinger/AHD	Isopropyl alcohol 70%	53478	1
Hedinger/AHD	Isopropyl alcohol 70%	53479	1
Hedinger/AHD	Isopropyl alcohol 70%	53488	1
Hedinger/AHD	Isopropyl alcohol 70%	53493	1
Hedinger/AHD	Isopropyl alcohol 70%	53495	1
Hedinger/AHD	Isopropyl alcohol 70%	53505	1
Hedinger/AHD	Isopropyl alcohol 70%	53513	1
Hedinger/AHD	Isopropyl alcohol 70%	53529	1
Hedinger/AHD	Isopropyl alcohol 70%	53549	1
Hedinger/AHD	Isopropyl alcohol 70%	53551	1
Hedinger/AHD	Isopropyl alcohol 70%	53555	1
Hedinger/AHD	Isopropyl alcohol 70%	53557	1
Hedinger/AHD	Isopropyl alcohol 70%	53561	1
Hedinger/AHD	Isopropyl alcohol 70%	53576	1
Hedinger/AHD	Isopropyl alcohol 70%	53582	1
Hedinger/AHD	Isopropyl alcohol 70%	53595	1
Hedinger/AHD	Isopropyl alcohol 70%	53611	1
Hedinger/AHD	Isopropyl alcohol 70%	53617	2
Hedinger/AHD	Isopropyl alcohol 70%	53643	1
Hedinger/AHD	Isopropyl alcohol 70%	53661	2
Hedinger/AHD	Isopropyl alcohol 70%	53687	1
Hedinger/AHD	Isopropyl alcohol 70%	53689	1
Hedinger/AHD	Isopropyl alcohol 70%	53709	1
Hedinger/AHD	Isopropyl alcohol 70%	53714	1
Hedinger/AHD	Isopropyl alcohol 70%	53716	1
Hedinger/AHD	Isopropyl alcohol 70%	53717	1
Hedinger/AHD	Isopropyl alcohol 70%	53723	1
Hedinger/AHD	Isopropyl alcohol 70%	53741	1
Hedinger/AHD	Isopropyl alcohol 70%	53755	1
Hedinger/AHD	Isopropyl alcohol 70%	53774	1
Hedinger/AHD	Isopropyl alcohol 70%	53787	2
Hedinger/AHD	Isopropyl alcohol 70%	53797	2
Hedinger/Alli	Isopropyl alcohol 70%	53665	1
Hedinger/Alliance Healt...	Isopropyl alcohol 70%		1
Hedinger/Alliance Healt...	Isopropyl alcohol 70%	53376	1
Hedinger/Alliance Healt...	Isopropyl alcohol 70%	53467	3
Hedinger/Alliance Hirsc...	Isopropyl alcohol 70%	53519	1
Hedinger/Alliance	Isopropyl alcohol 70%	53324	1
Hedinger/Alliance	Isopropyl alcohol 70%	53353	1
Hedinger/Alliance	Isopropyl alcohol 70%	53359	1
Hedinger/Alliance	Isopropyl alcohol 70%	53417	1
Hedinger/Alliance	Isopropyl alcohol 70%	53678	2
Hedinger/Alliance	Isopropyl alcohol 70%	53706	2
Hedinger/Anz	Isopropyl alcohol 70%	53399	1
Hedinger/Anz	Isopropyl alcohol 70%	53514	1
Hedinger/Anzag direkt	Isopropyl alcohol 70%	53545	1
Hedinger/Anzag	Isopropyl alcohol 70%	2002018	1
Hedinger/Anzag	Isopropyl alcohol 70%	2x053739	1
Hedinger/Anzag	Isopropyl alcohol 70%	303006	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Anzag	Isopropyl alcohol 70%	303007	2
Hedinger/Anzag	Isopropyl alcohol 70%	303008	1
Hedinger/Anzag	Isopropyl alcohol 70%	53447	1
Hedinger/Anzag	Isopropyl alcohol 70%	53497	2
Hedinger/Anzag	Isopropyl alcohol 70%	53518	1
Hedinger/Anzag	Isopropyl alcohol 70%	53524	4
Hedinger/Anzag	Isopropyl alcohol 70%	53525	1
Hedinger/Anzag	Isopropyl alcohol 70%	53548	3
Hedinger/Anzag	Isopropyl alcohol 70%	53550	4
Hedinger/Anzag	Isopropyl alcohol 70%	53554	2
Hedinger/Anzag	Isopropyl alcohol 70%	53574	3
Hedinger/Anzag	Isopropyl alcohol 70%	53586	5
Hedinger/Anzag	Isopropyl alcohol 70%	53598	1
Hedinger/Anzag	Isopropyl alcohol 70%	53601	1
Hedinger/Anzag	Isopropyl alcohol 70%	53606	2
Hedinger/Anzag	Isopropyl alcohol 70%	53607	1
Hedinger/Anzag	Isopropyl alcohol 70%	53610	1
Hedinger/Anzag	Isopropyl alcohol 70%	53622	1
Hedinger/Anzag	Isopropyl alcohol 70%	53632	1
Hedinger/Anzag	Isopropyl alcohol 70%	53667	1
Hedinger/Anzag	Isopropyl alcohol 70%	53694	2
Hedinger/Anzag	Isopropyl alcohol 70%	53698	1
Hedinger/Anzag	Isopropyl alcohol 70%	53700	2
Hedinger/Anzag	Isopropyl alcohol 70%	53709	1
Hedinger/Anzag	Isopropyl alcohol 70%	53715	1
Hedinger/Anzag	Isopropyl alcohol 70%	53737	1
Hedinger/Anzag	Isopropyl alcohol 70%	53750	1
Hedinger/Anzag	Isopropyl alcohol 70%	siehe Protokoll	1
Hedinger/Delta	Isopropyl alcohol 70%	53539	1
Hedinger/Ebert	Isopropyl alcohol 70%	53442	1
Hedinger/Ebert	Isopropyl alcohol 70%	53449	2
Hedinger/Ebert	Isopropyl alcohol 70%	53452	1
Hedinger/Ebert	Isopropyl alcohol 70%	53460	1
Hedinger/Ebert	Isopropyl alcohol 70%	53462	1
Hedinger/Ebert	Isopropyl alcohol 70%	53494	2
Hedinger/Ebert	Isopropyl alcohol 70%	53504	1
Hedinger/Ebert	Isopropyl alcohol 70%	53506	2
Hedinger/Ebert	Isopropyl alcohol 70%	53562	1
Hedinger/Ebert	Isopropyl alcohol 70%	53577	1
Hedinger/Ebert	Isopropyl alcohol 70%	53598	1
Hedinger/Ebert	Isopropyl alcohol 70%	53600	3
Hedinger/Ebert	Isopropyl alcohol 70%	53602	2
Hedinger/Ebert	Isopropyl alcohol 70%	53685	2
Hedinger/Ebert	Isopropyl alcohol 70%	53697	3
Hedinger/Fiebig 05.03.2...	Isopropyl alcohol 70%	53626	1
Hedinger/Fiebig	Isopropyl alcohol 70%	303035	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53326	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53391	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53409	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53420	3
Hedinger/Fiebig	Isopropyl alcohol 70%	53440	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53447	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53451	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53454	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53456	3
Hedinger/Fiebig	Isopropyl alcohol 70%	53468	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53469	5
Hedinger/Fiebig	Isopropyl alcohol 70%	53478	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53488	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53493	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Fiebig	Isopropyl alcohol 70%	53495	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53505	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53509	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53510	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53515	3
Hedinger/Fiebig	Isopropyl alcohol 70%	53525	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53530	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53534	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53542	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53545	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53552	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53562	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53576	3
Hedinger/Fiebig	Isopropyl alcohol 70%	53577	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53593	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53598	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53603	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53611	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53633	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53682	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53686	2
Hedinger/Fiebig	Isopropyl alcohol 70%	53703	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53706	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53717	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53726	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53733	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53741	4
Hedinger/Fiebig	Isopropyl alcohol 70%	53772	1
Hedinger/Fiebig	Isopropyl alcohol 70%	53801	1
Hedinger/Fiebig	Isopropyl alcohol 70%	5386	1
Hedinger/Gehe	Isopropyl alcohol 70%	1200717/053443	1
Hedinger/GEHE	Isopropyl alcohol 70%	53266	1
Hedinger/Gehe	Isopropyl alcohol 70%	53302	1
Hedinger/Gehe	Isopropyl alcohol 70%	53315	1
Hedinger/Gehe	Isopropyl alcohol 70%	53322	1
Hedinger/Gehe	Isopropyl alcohol 70%	53333	1
Hedinger/Gehe	Isopropyl alcohol 70%	53338	1
Hedinger/Gehe	Isopropyl alcohol 70%	53340	1
Hedinger/Gehe	Isopropyl alcohol 70%	53346	1
Hedinger/Gehe	Isopropyl alcohol 70%	5335	1
Hedinger/Gehe	Isopropyl alcohol 70%	53351	1
Hedinger/Gehe	Isopropyl alcohol 70%	53352	1
Hedinger/Gehe	Isopropyl alcohol 70%	53357	3
Hedinger/Gehe	Isopropyl alcohol 70%	53366	1
Hedinger/Gehe	Isopropyl alcohol 70%	53367	1
Hedinger/Gehe	Isopropyl alcohol 70%	53376	1
Hedinger/Gehe	Isopropyl alcohol 70%	53379	1
Hedinger/Gehe	Isopropyl alcohol 70%	53380	1
Hedinger/Gehe	Isopropyl alcohol 70%	53385	1
Hedinger/Gehe	Isopropyl alcohol 70%	53388	1
Hedinger/Gehe	Isopropyl alcohol 70%	53392	1
Hedinger/Gehe	Isopropyl alcohol 70%	53401	2
Hedinger/Gehe	Isopropyl alcohol 70%	53402	2
Hedinger/Gehe	Isopropyl alcohol 70%	53416	1
Hedinger/Gehe	Isopropyl alcohol 70%	53422	1
Hedinger/GEHE	Isopropyl alcohol 70%	53453	1
Hedinger/Gehe	Isopropyl alcohol 70%	53482	1
Hedinger/Gehe	Isopropyl alcohol 70%	53491	2
Hedinger/Gehe	Isopropyl alcohol 70%	53492	1
Hedinger/Gehe	Isopropyl alcohol 70%	53498	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Gehe	Isopropyl alcohol 70%	53511	1
Hedinger/Gehe	Isopropyl alcohol 70%	53532	2
Hedinger/Gehe	Isopropyl alcohol 70%	53536	1
Hedinger/Gehe	Isopropyl alcohol 70%	53557	1
Hedinger/Gehe	Isopropyl alcohol 70%	53562	1
Hedinger/Gehe	Isopropyl alcohol 70%	53565	2
Hedinger/Gehe	Isopropyl alcohol 70%	53570	4
Hedinger/Gehe	Isopropyl alcohol 70%	53581	1
Hedinger/Gehe	Isopropyl alcohol 70%	53594	1
Hedinger/Gehe	Isopropyl alcohol 70%	53595	1
Hedinger/Gehe	Isopropyl alcohol 70%	53601	5
Hedinger/Gehe	Isopropyl alcohol 70%	53607	1
Hedinger/Gehe	Isopropyl alcohol 70%	53617	2
Hedinger/Gehe	Isopropyl alcohol 70%	53629	1
Hedinger/GEHE	Isopropyl alcohol 70%	53673	1
Hedinger/Gehe	Isopropyl alcohol 70%	53695	1
Hedinger/Gehe	Isopropyl alcohol 70%	53798	1
Hedinger/Gehe	Isopropyl alcohol 70%	53808	1
Hedinger/Geibo	Isopropyl alcohol 70%	53383	2
Hedinger/Geilenkirchen	Isopropyl alcohol 70%	53262	1
Hedinger/Geilenkirchen	Isopropyl alcohol 70%	53266	1
Hedinger/Geilenkirchen	Isopropyl alcohol 70%	53306	2
Hedinger/Geilenkirchen	Isopropyl alcohol 70%	53320	1
Hedinger/Geilenkirchen	Isopropyl alcohol 70%	53333	1
Hedinger/Geilenkirchen	Isopropyl alcohol 70%	53566	4
Hedinger/Geilenkirchen	Isopropyl alcohol 70%	53604	2
Hedinger/Geilenkirchen	Isopropyl alcohol 70%	53798	1
Hedinger/Jenne	Isopropyl alcohol 70%	53601	1
Hedinger/Jenne	Isopropyl alcohol 70%	53652	2
Hedinger/Jenne	Isopropyl alcohol 70%	53741	1
Hedinger/Jenne	Isopropyl alcohol 70%	53744	1
Hedinger/Kehr	Isopropyl alcohol 70%	53386	1
Hedinger/Kehr	Isopropyl alcohol 70%	53393	1
Hedinger/Kehr	Isopropyl alcohol 70%	53425	2
Hedinger/Kehr	Isopropyl alcohol 70%	53435	1
Hedinger/Kehr	Isopropyl alcohol 70%	53438	1
Hedinger/Kehr	Isopropyl alcohol 70%	53439	1
Hedinger/Kehr	Isopropyl alcohol 70%	53497	1
Hedinger/Kehr	Isopropyl alcohol 70%	53524	2
Hedinger/Kehr	Isopropyl alcohol 70%	53545	1
Hedinger/Kehr	Isopropyl alcohol 70%	53548	1
Hedinger/Kehr	Isopropyl alcohol 70%	53555	1
Hedinger/Kehr	Isopropyl alcohol 70%	53559	1
Hedinger/Kehr	Isopropyl alcohol 70%	53582	1
Hedinger/Kehr	Isopropyl alcohol 70%	53590	1
Hedinger/Kehr	Isopropyl alcohol 70%	53601	1
Hedinger/Klosterring	Isopropyl alcohol 70%	53518	1
hedinger/Noweda	Isopropyl alcohol 70%	181115182	1
Hedinger/Noweda	Isopropyl alcohol 70%	303078	1
Hedinger/Noweda	Isopropyl alcohol 70%	303084	1
Hedinger/Noweda	Isopropyl alcohol 70%	303100	1
Hedinger/Noweda	Isopropyl alcohol 70%	3817M-01080	1
Hedinger/Noweda	Isopropyl alcohol 70%	5308	1
Hedinger/Noweda	Isopropyl alcohol 70%	53266	1
Hedinger/Noweda	Isopropyl alcohol 70%	53320	1
Hedinger/Noweda	Isopropyl alcohol 70%	53343	2
Hedinger/Noweda	Isopropyl alcohol 70%	53346	1
Hedinger/Noweda	Isopropyl alcohol 70%	53355	2
Hedinger/Noweda	Isopropyl alcohol 70%	53357	1
Hedinger/Noweda	Isopropyl alcohol 70%	53360	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Noweda	Isopropyl alcohol 70%	53367	1
Hedinger/Noweda	Isopropyl alcohol 70%	53379	1
Hedinger/Noweda	Isopropyl alcohol 70%	53380	1
Hedinger/Noweda	Isopropyl alcohol 70%	53381	1
Hedinger/Noweda	Isopropyl alcohol 70%	53383	1
Hedinger/Noweda	Isopropyl alcohol 70%	53395	1
hedinger/noweda	Isopropyl alcohol 70%	53397	1
Hedinger/Noweda	Isopropyl alcohol 70%	53397	1
hedinger/Noweda	Isopropyl alcohol 70%	53403	1
Hedinger/Noweda	Isopropyl alcohol 70%	53406	1
Hedinger/Noweda	Isopropyl alcohol 70%	53410	1
Hedinger/Noweda	Isopropyl alcohol 70%	53411	1
hedinger/Noweda	Isopropyl alcohol 70%	53412	1
Hedinger/Noweda	Isopropyl alcohol 70%	53417	2
Hedinger/Noweda	Isopropyl alcohol 70%	53419	1
hedinger/Noweda	Isopropyl alcohol 70%	53420	1
Hedinger/Noweda	Isopropyl alcohol 70%	53422	1
Hedinger/Noweda	Isopropyl alcohol 70%	53425	1
Hedinger/Noweda	Isopropyl alcohol 70%	53430	1
hedinger/Noweda	Isopropyl alcohol 70%	53434	1
Hedinger/Noweda	Isopropyl alcohol 70%	53438	1
Hedinger/Noweda	Isopropyl alcohol 70%	53439	1
hedinger/Noweda	Isopropyl alcohol 70%	53441	1
Hedinger/Noweda	Isopropyl alcohol 70%	53443	1
Hedinger/Noweda	Isopropyl alcohol 70%	53445	1
Hedinger/Noweda	Isopropyl alcohol 70%	53451	1
Hedinger/Noweda	Isopropyl alcohol 70%	53454	1
Hedinger/Noweda	Isopropyl alcohol 70%	53458	1
hedinger/Noweda	Isopropyl alcohol 70%	53459	1
hedinger/Noweda	Isopropyl alcohol 70%	53461	1
hedinger/Noweda	Isopropyl alcohol 70%	53464	1
Hedinger/Noweda	Isopropyl alcohol 70%	53467	2
Hedinger/Noweda	Isopropyl alcohol 70%	53468	2
Hedinger/Noweda	Isopropyl alcohol 70%	53485	1
Hedinger/Noweda	Isopropyl alcohol 70%	53491	1
hedinger/Noweda	Isopropyl alcohol 70%	53497	1
hedinger/Noweda	Isopropyl alcohol 70%	53503	1
hedinger/Noweda	Isopropyl alcohol 70%	53511	1
hedinger/Noweda	Isopropyl alcohol 70%	53514	1
hedinger/Noweda	Isopropyl alcohol 70%	53517	1
Hedinger/Noweda	Isopropyl alcohol 70%	53517	1
Hedinger/Noweda	Isopropyl alcohol 70%	53518	3
Hedinger/Noweda	Isopropyl alcohol 70%	53519	1
Hedinger/Noweda	Isopropyl alcohol 70%	53521	1
Hedinger/Noweda	Isopropyl alcohol 70%	53526	1
Hedinger/Noweda	Isopropyl alcohol 70%	53537	1
hedinger/Noweda	Isopropyl alcohol 70%	53544	1
Hedinger/Noweda	Isopropyl alcohol 70%	53571	1
Hedinger/Noweda	Isopropyl alcohol 70%	53580	1
Hedinger/Noweda	Isopropyl alcohol 70%	53581	1
Hedinger/Noweda	Isopropyl alcohol 70%	53587	1
Hedinger/Noweda	Isopropyl alcohol 70%	53600	1
Hedinger/Noweda	Isopropyl alcohol 70%	53603	1
Hedinger/Noweda	Isopropyl alcohol 70%	53608	2
Hedinger/Noweda	Isopropyl alcohol 70%	53611	1
Hedinger/Noweda	Isopropyl alcohol 70%	53616	2
Hedinger/Noweda	Isopropyl alcohol 70%	53618	1
Hedinger/Noweda	Isopropyl alcohol 70%	53633	1
Hedinger/Noweda	Isopropyl alcohol 70%	53636	1
Hedinger/Noweda	Isopropyl alcohol 70%	53639	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Noweda	Isopropyl alcohol 70%	53645	1
Hedinger/Noweda	Isopropyl alcohol 70%	53655	1
Hedinger/Noweda	Isopropyl alcohol 70%	53665	1
HEDINGER/NOWEDA	Isopropyl alcohol 70%	53665	1
HEDINGER/NOWEDA	Isopropyl alcohol 70%	53670	2
Hedinger/Noweda	Isopropyl alcohol 70%	53672	1
Hedinger/Noweda	Isopropyl alcohol 70%	53674	1
HEDINGER/NOWEDA	Isopropyl alcohol 70%	53675	1
Hedinger/Noweda	Isopropyl alcohol 70%	53678	11
Hedinger/Noweda	Isopropyl alcohol 70%	53694	1
Hedinger/Noweda	Isopropyl alcohol 70%	53695	4
HEDINGER/NOWEDA	Isopropyl alcohol 70%	53695	1
Hedinger/Noweda	Isopropyl alcohol 70%	53716	2
Hedinger/Noweda	Isopropyl alcohol 70%	53727	1
Hedinger/Noweda	Isopropyl alcohol 70%	53733	2
Hedinger/Noweda	Isopropyl alcohol 70%	53734	5
Hedinger/Noweda	Isopropyl alcohol 70%	53738	2
Hedinger/Noweda	Isopropyl alcohol 70%	53750	3
HEDINGER/NOWEDA	Isopropyl alcohol 70%	53753	2
Hedinger/Noweda	Isopropyl alcohol 70%	53761	1
Hedinger/Noweda	Isopropyl alcohol 70%	53770	1
Hedinger/Noweda	Isopropyl alcohol 70%	53795	1
Hedinger/Phö	Isopropyl alcohol 70%	53340	1
Hedinger/Phö	Isopropyl alcohol 70%	53401	1
Hedinger/Phö	Isopropyl alcohol 70%	53416	1
Hedinger/pho	Isopropyl alcohol 70%	53769	3
Hedinger/pho	Isopropyl alcohol 70%	53787	1
Hedinger/Phö	Isopropyl alcohol 70%	5432	1
Hedinger/Phoenix 16.07.18	Isopropyl alcohol 70%	53480	1
Hedinger/Phoenix WE: 09...	Isopropyl alcohol 70%	53410	2
Hedinger/Phoenix	Isopropyl alcohol 70%	303053	4
Hedinger/Phoenix	Isopropyl alcohol 70%	303144	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53332	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53367	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53377	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53382	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53385	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53392	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53442	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53447	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53448	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53453	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53456	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53475	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53482	3
Hedinger/Phoenix	Isopropyl alcohol 70%	53488	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53499	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53506	6
Hedinger/Phoenix	Isopropyl alcohol 70%	53509	4
Hedinger/Phoenix	Isopropyl alcohol 70%	53511	3
Hedinger/Phoenix	Isopropyl alcohol 70%	53517	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53522	2
Hedinger/Phoenix	Isopropyl alcohol 70%	53524	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53527	5
Hedinger/Phoenix	Isopropyl alcohol 70%	53528	2
Hedinger/Phoenix	Isopropyl alcohol 70%	53537	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53539	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53540	8
Hedinger/Phoenix	Isopropyl alcohol 70%	53552	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53559	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Phoenix	Isopropyl alcohol 70%	53563	1
Hedinger/phoenix	Isopropyl alcohol 70%	53567	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53578	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53581	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53582	2
Hedinger/Phoenix	Isopropyl alcohol 70%	53585	1
Hedinger/phoenix	Isopropyl alcohol 70%	53593	9
Hedinger/phoenix	Isopropyl alcohol 70%	53603	2
Hedinger/Phoenix	Isopropyl alcohol 70%	53608	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53651	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53664	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53686	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53694	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53704	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53715	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53723	1
Hedinger/phoenix	Isopropyl alcohol 70%	53738	1
Hedinger/Phoenix	Isopropyl alcohol 70%	53756	4
Hedinger/Phoenix	Isopropyl alcohol 70%	53769	1
Hedinger/Phön.	Isopropyl alcohol 70%	53651	2
Hedinger/Phön.	Isopropyl alcohol 70%	53694	2
Hedinger/Phönix	Isopropyl alcohol 70%	/53593	1
Hedinger/Phönix	Isopropyl alcohol 70%	3030046	1
Hedinger/Phönix	Isopropyl alcohol 70%	303035	1
Hedinger/Phönix	Isopropyl alcohol 70%	303037	3
Hedinger/Phönix	Isopropyl alcohol 70%	303039	3
Hedinger/Phönix	Isopropyl alcohol 70%	303040	1
Hedinger/Phönix	Isopropyl alcohol 70%	303042	1
Hedinger/Phönix	Isopropyl alcohol 70%	303045	1
Hedinger/Phönix	Isopropyl alcohol 70%	303059	1
Hedinger/Phönix	Isopropyl alcohol 70%	303087	1
Hedinger/Phönix	Isopropyl alcohol 70%	303095	1
Hedinger/Phönix	Isopropyl alcohol 70%	4110039	1
Hedinger/Phönix	Isopropyl alcohol 70%	53348	1
Hedinger/Phönix	Isopropyl alcohol 70%	533586	1
Hedinger/Phönix	Isopropyl alcohol 70%	53369	1
HEDINGER/Phönix	Isopropyl alcohol 70%	53369	2
HEDINGER/Phönix	Isopropyl alcohol 70%	53380	2
Hedinger/Phönix	Isopropyl alcohol 70%	53385	1
HEDINGER/Phönix	Isopropyl alcohol 70%	53387	1
Hedinger/Phönix	Isopropyl alcohol 70%	53392	1
Hedinger/Phönix	Isopropyl alcohol 70%	53397	1
Hedinger/Phönix	Isopropyl alcohol 70%	53398	1
HEDINGER/Phönix	Isopropyl alcohol 70%	53398	1
Hedinger/Phönix	Isopropyl alcohol 70%	53401	2
HEDINGER/Phönix	Isopropyl alcohol 70%	53401	4
Hedinger/Phönix	Isopropyl alcohol 70%	53410	3
HEDINGER/Phönix	Isopropyl alcohol 70%	53410	1
HEDINGER/Phönix	Isopropyl alcohol 70%	53416	3
Hedinger/Phönix	Isopropyl alcohol 70%	53426	1
HEDINGER/Phönix	Isopropyl alcohol 70%	53426	1
Hedinger/Phönix	Isopropyl alcohol 70%	53432	1
HEDINGER/Phönix	Isopropyl alcohol 70%	53432	4
Hedinger/Phönix	Isopropyl alcohol 70%	53447	1
Hedinger/Phönix	Isopropyl alcohol 70%	53451	3
HEDINGER/Phönix	Isopropyl alcohol 70%	53451	2
Hedinger/Phönix	Isopropyl alcohol 70%	53456	1
HEDINGER/Phönix	Isopropyl alcohol 70%	53456	1
Hedinger/Phönix	Isopropyl alcohol 70%	53462	1
Hedinger/Phönix	Isopropyl alcohol 70%	53479	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Phönix	Isopropyl alcohol 70%	53480	1
Hedinger/Phönix	Isopropyl alcohol 70%	53486	1
Hedinger/Phönix	Isopropyl alcohol 70%	53488	6
Hedinger/Phönix	Isopropyl alcohol 70%	53493	1
Hedinger/Phönix	Isopropyl alcohol 70%	53497	1
Hedinger/Phönix	Isopropyl alcohol 70%	53502	2
Hedinger/Phönix	Isopropyl alcohol 70%	53519	2
Hedinger/Phönix	Isopropyl alcohol 70%	53520	4
Hedinger/Phönix	Isopropyl alcohol 70%	53523	2
Hedinger/Phönix	Isopropyl alcohol 70%	53526	4
Hedinger/Phönix	Isopropyl alcohol 70%	53539	4
Hedinger/Phönix	Isopropyl alcohol 70%	53541	1
Hedinger/Phönix	Isopropyl alcohol 70%	53550	4
Hedinger/Phönix	Isopropyl alcohol 70%	53561	1
Hedinger/Phönix	Isopropyl alcohol 70%	53567	1
Hedinger/Phönix	Isopropyl alcohol 70%	53573	3
Hedinger/Phönix	Isopropyl alcohol 70%	53577	3
Hedinger/Phönix	Isopropyl alcohol 70%	53584	1
Hedinger/Phönix	Isopropyl alcohol 70%	53587	1
Hedinger/Phönix	Isopropyl alcohol 70%	53590	1
Hedinger/Phönix	Isopropyl alcohol 70%	53593	2
Hedinger/Phönix	Isopropyl alcohol 70%	53600	4
Hedinger/Phönix	Isopropyl alcohol 70%	53603	1
Hedinger/Phönix	Isopropyl alcohol 70%	53612	3
Hedinger/phönix	Isopropyl alcohol 70%	53655	1
Hedinger/Phönix	Isopropyl alcohol 70%	53672	1
Hedinger/Phönix	Isopropyl alcohol 70%	53674	3
Hedinger/Phönix	Isopropyl alcohol 70%	53682	1
Hedinger/Phönix	Isopropyl alcohol 70%	53686	1
Hedinger/Phönix	Isopropyl alcohol 70%	53694	4
Hedinger/Phönix	Isopropyl alcohol 70%	53695	1
Hedinger/Phönix	Isopropyl alcohol 70%	53702	2
Hedinger/Phönix	Isopropyl alcohol 70%	53741	1
Hedinger/Phönix	Isopropyl alcohol 70%	53758	2
Hedinger/Phönix	Isopropyl alcohol 70%	53777	1
Hedinger/Phönix	Isopropyl alcohol 70%	53781	1
Hedinger/Phönix	Isopropyl alcohol 70%	53788	1
Hedinger/Phönix	Isopropyl alcohol 70%	53797	1
Hedinger/Phönix	Isopropyl alcohol 70%	53798	2
Hedinger/Phönix	Isopropyl alcohol 70%	701035B	1
Hedinger/Sana	Isopropyl alcohol 70%	53397	1
Hedinger/Sana	Isopropyl alcohol 70%	53739	1
Hedinger/Sana	Isopropyl alcohol 70%	53788	1
Hedinger/Sanacorop	Isopropyl alcohol 70%	53493	1
Hedinger/Sanacorp (Zyto...	Isopropyl alcohol 70%	53713	1
Hedinger/Sanacorp (Zyto...	Isopropyl alcohol 70%	53725	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	303155	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	3407	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53300	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53324	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53332	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53337	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53341	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53353	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53370	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53371	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53372	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53375	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53381	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53382	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Sanacorp	Isopropyl alcohol 70%	53383	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53396	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53404	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53410	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53411	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53412	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53416	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53421	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53432	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53440	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53443	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53447	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53456	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53460	4
Hedinger/Sanacorp	Isopropyl alcohol 70%	53465	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53466	3
Hedinger/Sanacorp	Isopropyl alcohol 70%	53469	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53470	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53479	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53492	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53493	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53494	3
Hedinger/Sanacorp	Isopropyl alcohol 70%	53504	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53506	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53510	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53513	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53519	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53523	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53525	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53534	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53540	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53542	3
Hedinger/Sanacorp	Isopropyl alcohol 70%	53544	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53550	2
HEDINGER/Sanacorp	Isopropyl alcohol 70%	53550	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53557	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53561	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53566	1
Hedinger/sanacorp	Isopropyl alcohol 70%	53570	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53570	2
Hedinger/sanacorp	Isopropyl alcohol 70%	53571	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53573	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53577	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53584	7
Hedinger/sanacorp	Isopropyl alcohol 70%	53587	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53587	6
Hedinger/Sanacorp	Isopropyl alcohol 70%	53598	4
Hedinger/Sanacorp	Isopropyl alcohol 70%	53599	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53606	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53608	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53617	1
Hedinger/sanacorp	Isopropyl alcohol 70%	53655	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53669	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53678	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53685	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53688	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53690	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53691	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53693	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53694	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Sanacorp	Isopropyl alcohol 70%	53697	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53702	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53703	3
Hedinger/Sanacorp	Isopropyl alcohol 70%	53704	1
HEDINGER/Sanacorp	Isopropyl alcohol 70%	53710	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53717	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53718	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53722	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53728	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	5373/8	1
Hedinger/sanacorp	Isopropyl alcohol 70%	53732	3
Hedinger/Sanacorp	Isopropyl alcohol 70%	53732	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	5374	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53747	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53753	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53757	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53781	2
Hedinger/Sanacorp	Isopropyl alcohol 70%	53793	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	53802	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	704103	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	AP210225-02	1
Hedinger/Sanacorp	Isopropyl alcohol 70%	Ap210720-02	1
Hedinger/Spangro	Isopropyl alcohol 70%	53508	1
Hedinger/Spangro	Isopropyl alcohol 70%	53524	3
Hedinger/Spangro	Isopropyl alcohol 70%	53548	1
Hedinger/VDL	Isopropyl alcohol 70%	53425	1
Hedinger	Isopropyl alcohol 70%		3
Hedinger	Isopropyl alcohol 70%	181108187	1
Hedinger	Isopropyl alcohol 70%	303049	2
Hedinger	Isopropyl alcohol 70%	303054	1
Hedinger	Isopropyl alcohol 70%	303071	1
hedinger	Isopropyl alcohol 70%	303073	1
Hedinger	Isopropyl alcohol 70%	303081	1
Hedinger	Isopropyl alcohol 70%	303087	1
Hedinger	Isopropyl alcohol 70%	303140	1
Hedinger	Isopropyl alcohol 70%	303145	1
Hedinger	Isopropyl alcohol 70%	303159	1
Hedinger	Isopropyl alcohol 70%	303185	1
Hedinger	Isopropyl alcohol 70%	42550	1
Hedinger	Isopropyl alcohol 70%	53226	1
Hedinger	Isopropyl alcohol 70%	53228	1
hedinger	Isopropyl alcohol 70%	53236	1
Hedinger	Isopropyl alcohol 70%	53240	1
Hedinger	Isopropyl alcohol 70%	53241	3
Hedinger	Isopropyl alcohol 70%	53242	2
Hedinger	Isopropyl alcohol 70%	53245	1
Hedinger	Isopropyl alcohol 70%	53250	1
Hedinger	Isopropyl alcohol 70%	53253	1
Hedinger	Isopropyl alcohol 70%	53255	1
Hedinger	Isopropyl alcohol 70%	53258	1
Hedinger	Isopropyl alcohol 70%	53259	2
Hedinger	Isopropyl alcohol 70%	53265	1
Hedinger	Isopropyl alcohol 70%	53267	2
Hedinger	Isopropyl alcohol 70%	53268	2
Hedinger	Isopropyl alcohol 70%	53274	1
Hedinger	Isopropyl alcohol 70%	53280	5
Hedinger	Isopropyl alcohol 70%	53284	1
Hedinger	Isopropyl alcohol 70%	53291	1
Hedinger	Isopropyl alcohol 70%	53297	1
Hedinger	Isopropyl alcohol 70%	53301	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol 70%	53303	1
Hedinger	Isopropyl alcohol 70%	53306	1
Hedinger	Isopropyl alcohol 70%	53308	1
Hedinger	Isopropyl alcohol 70%	53309	3
Hedinger	Isopropyl alcohol 70%	53315	4
Hedinger	Isopropyl alcohol 70%	53316	1
Hedinger	Isopropyl alcohol 70%	53320	2
Hedinger	Isopropyl alcohol 70%	53321	4
Hedinger	Isopropyl alcohol 70%	53324	2
Hedinger	Isopropyl alcohol 70%	53333	2
HEDINGER	Isopropyl alcohol 70%	53333	3
Hedinger	Isopropyl alcohol 70%	53334	2
Hedinger	Isopropyl alcohol 70%	53337	1
Hedinger	Isopropyl alcohol 70%	53340	5
Hedinger	Isopropyl alcohol 70%	53341	2
Hedinger	Isopropyl alcohol 70%	53350	1
Hedinger	Isopropyl alcohol 70%	53351	1
Hedinger	Isopropyl alcohol 70%	53352	2
HEDINGER	Isopropyl alcohol 70%	53352	1
Hedinger	Isopropyl alcohol 70%	53353	2
Hedinger	Isopropyl alcohol 70%	53354	4
Hedinger	Isopropyl alcohol 70%	53357	2
Hedinger	Isopropyl alcohol 70%	53359	2
Hedinger	Isopropyl alcohol 70%	53362	2
HEDINGER	Isopropyl alcohol 70%	53362	2
Hedinger	Isopropyl alcohol 70%	53363	2
Hedinger	Isopropyl alcohol 70%	53366	1
Hedinger	Isopropyl alcohol 70%	53368	2
Hedinger	Isopropyl alcohol 70%	53370	3
Hedinger	Isopropyl alcohol 70%	53371	1
Hedinger	Isopropyl alcohol 70%	53372	1
Hedinger	Isopropyl alcohol 70%	53373	1
Hedinger	Isopropyl alcohol 70%	53375	3
Hedinger	Isopropyl alcohol 70%	53377	1
Hedinger	Isopropyl alcohol 70%	53378	2
Hedinger	Isopropyl alcohol 70%	53382	7
Hedinger	Isopropyl alcohol 70%	53383	3
Hedinger	Isopropyl alcohol 70%	53385	3
Hedinger	Isopropyl alcohol 70%	53386	1
Hedinger	Isopropyl alcohol 70%	53387	2
Hedinger	Isopropyl alcohol 70%	53388	1
Hedinger	Isopropyl alcohol 70%	53390	2
HEDINGER	Isopropyl alcohol 70%	53390	1
Hedinger	Isopropyl alcohol 70%	53392	5
Hedinger	Isopropyl alcohol 70%	53393	1
Hedinger	Isopropyl alcohol 70%	53397	1
Hedinger	Isopropyl alcohol 70%	53398	9
Hedinger	Isopropyl alcohol 70%	53400	1
Hedinger	Isopropyl alcohol 70%	53401	2
HEDINGER	Isopropyl alcohol 70%	53401	1
Hedinger	Isopropyl alcohol 70%	53402	3
Hedinger	Isopropyl alcohol 70%	53404	6
Hedinger	Isopropyl alcohol 70%	53406	2
Hedinger	Isopropyl alcohol 70%	53407	1
Hedinger	Isopropyl alcohol 70%	53408	1
Hedinger	Isopropyl alcohol 70%	53409	1
Hedinger	Isopropyl alcohol 70%	53410	2
Hedinger	Isopropyl alcohol 70%	53411	3
Hedinger	Isopropyl alcohol 70%	53412	2
Hedinger	Isopropyl alcohol 70%	53413	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol 70%	53416	2
Hedinger	Isopropyl alcohol 70%	53418	6
Hedinger	Isopropyl alcohol 70%	53419	2
Hedinger	Isopropyl alcohol 70%	53421	2
Hedinger	Isopropyl alcohol 70%	53423	1
Hedinger	Isopropyl alcohol 70%	53425	1
Hedinger	Isopropyl alcohol 70%	53426	2
Hedinger	Isopropyl alcohol 70%	53427	2
Hedinger	Isopropyl alcohol 70%	534275329	1
Hedinger	Isopropyl alcohol 70%	53428	1
Hedinger	Isopropyl alcohol 70%	53429	2
Hedinger	Isopropyl alcohol 70%	53430	3
Hedinger	Isopropyl alcohol 70%	53437	3
Hedinger	Isopropyl alcohol 70%	534375310	1
Hedinger	Isopropyl alcohol 70%	53438	1
Hedinger	Isopropyl alcohol 70%	53439	1
Hedinger	Isopropyl alcohol 70%	53440	2
Hedinger	Isopropyl alcohol 70%	534405397	1
Hedinger	Isopropyl alcohol 70%	53442	14
Hedinger	Isopropyl alcohol 70%	53443	1
Hedinger	Isopropyl alcohol 70%	53444	3
Hedinger	Isopropyl alcohol 70%	53445	2
Hedinger	Isopropyl alcohol 70%	53446	1
Hedinger	Isopropyl alcohol 70%	53447	2
Hedinger	Isopropyl alcohol 70%	53448	2
Hedinger	Isopropyl alcohol 70%	53449	2
Hedinger	Isopropyl alcohol 70%	534495370	1
Hedinger	Isopropyl alcohol 70%	53451	1
Hedinger	Isopropyl alcohol 70%	53454	1
Hedinger	Isopropyl alcohol 70%	53456	1
Hedinger	Isopropyl alcohol 70%	53458	2
hedinger	Isopropyl alcohol 70%	53459	1
Hedinger	Isopropyl alcohol 70%	53460	3
Hedinger	Isopropyl alcohol 70%	53461	1
Hedinger	Isopropyl alcohol 70%	53462	2
Hedinger	Isopropyl alcohol 70%	53463	1
Hedinger	Isopropyl alcohol 70%	53464	2
Hedinger	Isopropyl alcohol 70%	53465	2
Hedinger	Isopropyl alcohol 70%	53467	2
Hedinger	Isopropyl alcohol 70%	53468	1
Hedinger	Isopropyl alcohol 70%	534685436	1
Hedinger	Isopropyl alcohol 70%	534685475	1
Hedinger	Isopropyl alcohol 70%	53469	5
Hedinger	Isopropyl alcohol 70%	53470	2
Hedinger	Isopropyl alcohol 70%	53471	1
Hedinger	Isopropyl alcohol 70%	53474	2
hedinger	Isopropyl alcohol 70%	53476	1
Hedinger	Isopropyl alcohol 70%	53478	3
HEDINGER	Isopropyl alcohol 70%	53478	1
Hedinger	Isopropyl alcohol 70%	53479	3
Hedinger	Isopropyl alcohol 70%	53480	5
Hedinger	Isopropyl alcohol 70%	53482	1
Hedinger	Isopropyl alcohol 70%	53483	1
Hedinger	Isopropyl alcohol 70%	53484	2
Hedinger	Isopropyl alcohol 70%	53486	2
Hedinger	Isopropyl alcohol 70%	53488	4
Hedinger	Isopropyl alcohol 70%	534895520	1
hedinger	Isopropyl alcohol 70%	53490	1
Hedinger	Isopropyl alcohol 70%	53490	1
Hedinger	Isopropyl alcohol 70%	53491	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol 70%	53493	4
Hedinger	Isopropyl alcohol 70%	53495	2
Hedinger	Isopropyl alcohol 70%	53498	1
Hedinger	Isopropyl alcohol 70%	53502	3
Hedinger	Isopropyl alcohol 70%	53505	2
Hedinger	Isopropyl alcohol 70%	53506	3
HEDINGER	Isopropyl alcohol 70%	53506	2
Hedinger	Isopropyl alcohol 70%	53508	1
Hedinger	Isopropyl alcohol 70%	53509	4
Hedinger	Isopropyl alcohol 70%	53510	2
Hedinger	Isopropyl alcohol 70%	53511	2
Hedinger	Isopropyl alcohol 70%	53512	1
Hedinger	Isopropyl alcohol 70%	53513	3
Hedinger	Isopropyl alcohol 70%	53515	7
Hedinger	Isopropyl alcohol 70%	53516	2
Hedinger	Isopropyl alcohol 70%	53519	3
Hedinger	Isopropyl alcohol 70%	53520	1
Hedinger	Isopropyl alcohol 70%	53521	1
Hedinger	Isopropyl alcohol 70%	53522	4
Hedinger	Isopropyl alcohol 70%	53523	2
Hedinger	Isopropyl alcohol 70%	53525	4
HEDINGER	Isopropyl alcohol 70%	53525	1
Hedinger	Isopropyl alcohol 70%	53526	1
Hedinger	Isopropyl alcohol 70%	53527	2
hedinger	Isopropyl alcohol 70%	53528	1
Hedinger	Isopropyl alcohol 70%	53529	2
Hedinger	Isopropyl alcohol 70%	53530	5
Hedinger	Isopropyl alcohol 70%	53532	1
Hedinger	Isopropyl alcohol 70%	53533	1
Hedinger	Isopropyl alcohol 70%	53534	2
Hedinger	Isopropyl alcohol 70%	53537	1
hedinger	Isopropyl alcohol 70%	53538	1
Hedinger	Isopropyl alcohol 70%	53539	3
Hedinger	Isopropyl alcohol 70%	53541	2
Hedinger	Isopropyl alcohol 70%	53542	3
Hedinger	Isopropyl alcohol 70%	53545	1
Hedinger	Isopropyl alcohol 70%	53546	1
Hedinger	Isopropyl alcohol 70%	53548	2
Hedinger	Isopropyl alcohol 70%	53550	3
Hedinger	Isopropyl alcohol 70%	53551	1
Hedinger	Isopropyl alcohol 70%	53553	2
Hedinger	Isopropyl alcohol 70%	53554	1
Hedinger	Isopropyl alcohol 70%	53557	1
Hedinger	Isopropyl alcohol 70%	53558	2
Hedinger	Isopropyl alcohol 70%	53559	1
Hedinger	Isopropyl alcohol 70%	53561	6
HEDINGER	Isopropyl alcohol 70%	53561	2
Hedinger	Isopropyl alcohol 70%	53562	3
hedinger	Isopropyl alcohol 70%	53563	1
Hedinger	Isopropyl alcohol 70%	53563	1
Hedinger	Isopropyl alcohol 70%	53565	2
hedinger	Isopropyl alcohol 70%	53566	1
Hedinger	Isopropyl alcohol 70%	53567	3
Hedinger	Isopropyl alcohol 70%	53568	1
hedinger	Isopropyl alcohol 70%	53569	1
Hedinger	Isopropyl alcohol 70%	53571	1
Hedinger	Isopropyl alcohol 70%	53573	2
Hedinger	Isopropyl alcohol 70%	53576	2
Hedinger	Isopropyl alcohol 70%	53577	5
Hedinger	Isopropyl alcohol 70%	53578	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol 70%	53580	1
Hedinger	Isopropyl alcohol 70%	53581	1
Hedinger	Isopropyl alcohol 70%	53582	1
Hedinger	Isopropyl alcohol 70%	53584	4
hedinger	Isopropyl alcohol 70%	53585	1
Hedinger	Isopropyl alcohol 70%	53586	3
Hedinger	Isopropyl alcohol 70%	53587	3
Hedinger	Isopropyl alcohol 70%	53589	1
Hedinger	Isopropyl alcohol 70%	53590	2
Hedinger	Isopropyl alcohol 70%	53593	6
Hedinger	Isopropyl alcohol 70%	53594	1
Hedinger	Isopropyl alcohol 70%	53595	2
Hedinger	Isopropyl alcohol 70%	53597	3
Hedinger	Isopropyl alcohol 70%	53598	1
hedinger	Isopropyl alcohol 70%	53599	1
Hedinger	Isopropyl alcohol 70%	53600	2
Hedinger	Isopropyl alcohol 70%	53602	2
Hedinger	Isopropyl alcohol 70%	53603	8
Hedinger	Isopropyl alcohol 70%	53607	3
Hedinger	Isopropyl alcohol 70%	53608	2
hedinger	Isopropyl alcohol 70%	53609	1
Hedinger	Isopropyl alcohol 70%	53610	1
Hedinger	Isopropyl alcohol 70%	53611	1
Hedinger	Isopropyl alcohol 70%	53613	1
HEDINGER	Isopropyl alcohol 70%	53616	1
Hedinger	Isopropyl alcohol 70%	53617	1
HEDINGER	Isopropyl alcohol 70%	53617	1
Hedinger	Isopropyl alcohol 70%	53619	3
Hedinger	Isopropyl alcohol 70%	53622	2
Hedinger	Isopropyl alcohol 70%	53632	1
Hedinger	Isopropyl alcohol 70%	53634	2
Hedinger	Isopropyl alcohol 70%	53637	1
Hedinger	Isopropyl alcohol 70%	53639	2
Hedinger	Isopropyl alcohol 70%	53650	3
Hedinger	Isopropyl alcohol 70%	53651	3
Hedinger	Isopropyl alcohol 70%	53652	1
Hedinger	Isopropyl alcohol 70%	53653	2
Hedinger	Isopropyl alcohol 70%	53657	1
Hedinger	Isopropyl alcohol 70%	53667	1
hedinger	Isopropyl alcohol 70%	53670	1
Hedinger	Isopropyl alcohol 70%	53670	1
Hedinger	Isopropyl alcohol 70%	53673	1
Hedinger	Isopropyl alcohol 70%	53674	2
Hedinger	Isopropyl alcohol 70%	53675	1
Hedinger	Isopropyl alcohol 70%	53676	1
Hedinger	Isopropyl alcohol 70%	53678	1
Hedinger	Isopropyl alcohol 70%	53680	1
hedinger	Isopropyl alcohol 70%	53681	1
Hedinger	Isopropyl alcohol 70%	53682	2
Hedinger	Isopropyl alcohol 70%	53683	1
hedinger	Isopropyl alcohol 70%	53684	1
Hedinger	Isopropyl alcohol 70%	53686	2
HEDINGER	Isopropyl alcohol 70%	53686	1
Hedinger	Isopropyl alcohol 70%	53687	1
Hedinger	Isopropyl alcohol 70%	53689	1
Hedinger	Isopropyl alcohol 70%	53694	3
Hedinger	Isopropyl alcohol 70%	53700	1
Hedinger	Isopropyl alcohol 70%	53702	2
Hedinger	Isopropyl alcohol 70%	53703	5
Hedinger	Isopropyl alcohol 70%	53706	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Isopropyl alcohol 70%	53709	1
Hedinger	Isopropyl alcohol 70%	53714	3
Hedinger	Isopropyl alcohol 70%	53715	4
Hedinger	Isopropyl alcohol 70%	53716	1
Hedinger	Isopropyl alcohol 70%	53717	3
hedinger	Isopropyl alcohol 70%	53727	1
HEDINGER	Isopropyl alcohol 70%	53732	1
Hedinger	Isopropyl alcohol 70%	53733	5
Hedinger	Isopropyl alcohol 70%	53737	1
Hedinger	Isopropyl alcohol 70%	53739	1
Hedinger	Isopropyl alcohol 70%	53744	1
hedinger	Isopropyl alcohol 70%	53746	1
Hedinger	Isopropyl alcohol 70%	53750	1
Hedinger	Isopropyl alcohol 70%	53753	2
Hedinger	Isopropyl alcohol 70%	53756	2
Hedinger	Isopropyl alcohol 70%	53762	2
Hedinger	Isopropyl alcohol 70%	53769	1
Hedinger	Isopropyl alcohol 70%	53772	1
hedinger	Isopropyl alcohol 70%	53773	1
Hedinger	Isopropyl alcohol 70%	53777	1
Hedinger	Isopropyl alcohol 70%	53781	2
Hedinger	Isopropyl alcohol 70%	53788	2
hedinger	Isopropyl alcohol 70%	53800	1
Hedinger	Isopropyl alcohol 70%	53806	1
Hedinger	Isopropyl alcohol 70%	700186B	1
Hedinger	Isopropyl alcohol 70%	701189B	1
Hedinger	Isopropyl alcohol 70%	701203B	1
Hedinger	Isopropyl alcohol 70%	B230715	1
Hedinger	Isopropyl alcohol 70%	HA32	1
Hedinger1	Isopropyl alcohol 70%	53290	1
HedingerAlliance	Isopropyl alcohol 70%	53548	1
HedingerSanacorp	Isopropyl alcohol 70%	53526	1
Hedunger / Phönix	Isopropyl alcohol 70%	53686	1
Hedunger / Phönix	Isopropyl alcohol 70%	53695	1
Heidinger/Sanacorp	Isopropyl alcohol 70%	53454	1
Heidinger	Isopropyl alcohol 70%	53777	1
Herding/AHD	Isopropyl alcohol 70%	53296	1
hergestellt am 11.04.13	Isopropyl alcohol 70%	191012/925	1
Hergestellt am03.07.2013	Isopropyl alcohol 70%	2013-07-03B	1
Hergestellt	Isopropyl alcohol 70%	1150727	1
Herstellung in Apothek	Isopropyl alcohol 70%	20120911	1
Herstellung in Apothek	Isopropyl alcohol 70%	20130102	1
Herstellung in Apothek	Isopropyl alcohol 70%	22042013	1
Herstellung in Apothek	Isopropyl alcohol 70%	70587B	1
Herstellung in Apotheke	Isopropyl alcohol 70%	20130613	1
Herstellung in Apotheke	Isopropyl alcohol 70%	70643B	1
Herstellung	Isopropyl alcohol 70%	110416P2	1
Hetterich/AEP	Isopropyl alcohol 70%	140703	1
Hetterich/Sanacorp	Isopropyl alcohol 70%	140803	1
Hetterich/Spangro	Isopropyl alcohol 70%	140804	1
Hetterich	Isopropyl alcohol 70%	140001	1
Hetterich	Isopropyl alcohol 70%	140101	1
hetterich	Isopropyl alcohol 70%	140102	1
Hetterich	Isopropyl alcohol 70%	140301	1
Hetterich	Isopropyl alcohol 70%	140403	1
Hirsch Apotheke	Isopropyl alcohol 70%	1615I-01080	1
Hirsch Apotheke	Isopropyl alcohol 70%	415M-0108	1
Hirsch Apotheke	Isopropyl alcohol 70%	4714I-01080	1
Hirsch	Isopropyl alcohol 70%	1913E-01080	1
Hirsch	Isopropyl alcohol 70%	4213E-01080	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hirsch	Isopropyl alcohol 70%	4413I-01080	1
Hirsch	Isopropyl alcohol 70%	5013Q-01080	1
Hirsch	Isopropyl alcohol 70%	714E-01080	1
Hirsch	Isopropyl alcohol 70%	Die16041301	1
HirschApotheke	Isopropyl alcohol 70%	1015I-01080	1
HirschApotheke	Isopropyl alcohol 70%	1815E-01080	1
HirschApotheke	Isopropyl alcohol 70%	2315I-01080	1
HirschApotheke	Isopropyl alcohol 70%	4514I-01080	1
hochhaus-apotheke/Eigen...	Isopropyl alcohol 70%	2417Q-01080	1
Hochhaus-Apotheke	Isopropyl alcohol 70%	1116E-01080	1
Hochhaus-Apotheke	Isopropyl alcohol 70%	117E-01080	1
Hochhaus-Apotheke	Isopropyl alcohol 70%	3715A-01080	1
Hochhaus-Apotheke	Isopropyl alcohol 70%	4315E-01080	1
hochhaus-Apotheke	Isopropyl alcohol 70%	4715E-01080	1
hochhaus-Apotheke	Isopropyl alcohol 70%	5315E-01080	1
hochhaus-Apotheke	Isopropyl alcohol 70%	916I-01080	1
hochhaus-Apotheke	Isopropyl alcohol 70%	917M-01080	1
Hofmann und Sommer	Isopropyl alcohol 70%	940817	1
Hofmann&Sommer/Sanacorp	Isopropyl alcohol 70%	1380420	1
Hofmann&Sommer	Isopropyl alcohol 70%	1280320	1
hofmanns/noweda	Isopropyl alcohol 70%	1340420	1
Hubertus Apotheke	Isopropyl alcohol 70%	103171	1
Hubertus Apotheke	Isopropyl alcohol 70%	103172	1
Hubertus Apotheke	Isopropyl alcohol 70%	103173	1
Hubertus Apotheke	Isopropyl alcohol 70%	110416	1
Hubertus Apotheke	Isopropyl alcohol 70%	230915	1
Hubertus Apotheke	Isopropyl alcohol 70%	31215	1
Hubertus Apotheke	Isopropyl alcohol 70%	71014	1
Hubertus Apotheke	Isopropyl alcohol 70%	ChB060115	1
Hubertus Apotheke	Isopropyl alcohol 70%	Chb070319	1
Hubertus Apotheke	Isopropyl alcohol 70%	ChB120914	1
Hubertus Apotheke	Isopropyl alcohol 70%	chb190320181	1
Hubertus Apotheke	Isopropyl alcohol 70%	chb190320182	1
Ichthyol über Phoenix	Isopropyl alcohol 70%	16167802	1
Ichthyol/Noweda	Isopropyl alcohol 70%	17311403	1
Ichtyol	Isopropyl alcohol 70%	2600971T	1
Igel Apotheke	Isopropyl alcohol 70%	3813E-01080	1
Igel-Apo	Isopropyl alcohol 70%	119M-01080	1
Igel-Apo	Isopropyl alcohol 70%	4318Q-01080	1
Igel-Apo	Isopropyl alcohol 70%	4618E-01080	1
Igel-Apo	Isopropyl alcohol 70%	4819I-01080	1
Infectopharm / Noweda	Isopropyl alcohol 70%	53504	1
Isopropylalkohol GMP/Gehe	Isopropyl alcohol 70%	2314M-01080	1
Jenne/ Otto Fischer	Isopropyl alcohol 70%	41111062	1
Jenne/Hedinger	Isopropyl alcohol 70%	53747	1
Jenne	Isopropyl alcohol 70%	18308001	2
Jenne	Isopropyl alcohol 70%	4111021	1
Jenne	Isopropyl alcohol 70%	4111022	1
Kastner (eigen)	Isopropyl alcohol 70%	3914A-01080	1
Kastner	Isopropyl alcohol 70%	1714I-01080	1
Kastner	Isopropyl alcohol 70%	914I-01080	1
Kehr/A.Hedinger	Isopropyl alcohol 70%	53490	1
Kehr/Hedinger	Isopropyl alcohol 70%	53406	1
Kehr/Hedinger	Isopropyl alcohol 70%	53419	4
Kehr/Hedinger	Isopropyl alcohol 70%	53482	1
Kehr/Hedinger	Isopropyl alcohol 70%	53584	1
Kehr	Isopropyl alcohol 70%	53444	1
Kehr	Isopropyl alcohol 70%	53451	1
Kehr	Isopropyl alcohol 70%	53458	1
Kehr	Isopropyl alcohol 70%	53484	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Kehr	Isopropyl alcohol 70%	53486	1
Kehr	Isopropyl alcohol 70%	53498	2
Kehr	Isopropyl alcohol 70%	53516	1
Kehr	Isopropyl alcohol 70%	53582	1
Klenk	Isopropyl alcohol 70%	1214M-1080	1
Klenk	Isopropyl alcohol 70%	Hedinger053363	1
Klosterring	Isopropyl alcohol 70%	53448	1
Krieger/hedinger	Isopropyl alcohol 70%	53388	1
Krieger/Hedinger	Isopropyl alcohol 70%	53449	1
Krieger/Hedinger	Isopropyl alcohol 70%	53488	1
Krieger/Hedinger	Isopropyl alcohol 70%	53516	1
Krieger/Hedinger	Isopropyl alcohol 70%	53559	1
Kruppa	Isopropyl alcohol 70%	1116H2	1
Kruppa	Isopropyl alcohol 70%	117H2	1
Kruppa	Isopropyl alcohol 70%	118H4	1
Kruppa	Isopropyl alcohol 70%	218H2	1
Kruppa	Isopropyl alcohol 70%	317H2	1
Kruppa	Isopropyl alcohol 70%	417H2	1
Kruppa	Isopropyl alcohol 70%	418H4	1
Kruppa	Isopropyl alcohol 70%	518H2	1
Kruppa	Isopropyl alcohol 70%	617H2	1
kruppa	Isopropyl alcohol 70%	717H4	1
Kruppa	Isopropyl alcohol 70%	718H4	1
Kruppa	Isopropyl alcohol 70%	718H6	1
kruppa	Isopropyl alcohol 70%	817H2	1
Kruppa	Isopropyl alcohol 70%	818H7	1
L10	Isopropyl alcohol 70%	53423	3
L10	Isopropyl alcohol 70%	53427	1
L10	Isopropyl alcohol 70%	53429	1
L10	Isopropyl alcohol 70%	53449	2
L10	Isopropyl alcohol 70%	53466	2
L10	Isopropyl alcohol 70%	53486	1
L10	Isopropyl alcohol 70%	53561	3
L10	Isopropyl alcohol 70%	53562	1
L12	Isopropyl alcohol 70%	53402	1
L12	Isopropyl alcohol 70%	53404	1
L12	Isopropyl alcohol 70%	53567	2
L30	Isopropyl alcohol 70%	53387	6
L30	Isopropyl alcohol 70%	53456	1
L30	Isopropyl alcohol 70%	53469	3
L30	Isopropyl alcohol 70%	53484	1
L30	Isopropyl alcohol 70%	53494	1
L30	Isopropyl alcohol 70%	53502	3
L30	Isopropyl alcohol 70%	53516	1
L30	Isopropyl alcohol 70%	53530	4
L30	Isopropyl alcohol 70%	53539	5
L30	Isopropyl alcohol 70%	53542	1
L30	Isopropyl alcohol 70%	53576	1
Laborchemie Apolda/Phönix	Isopropyl alcohol 70%	18114202	1
Lamotte/AHCA	Isopropyl alcohol 70%	6010905001	4
Lamotte/Alliance	Isopropyl alcohol 70%	303032	1
Lamotte/Sanacorp	Isopropyl alcohol 70%	53377	1
Lehy Pharma GmbH	Isopropyl alcohol 70%	213741	2
Lehy Pharma GmbH	Isopropyl alcohol 70%	220451	1
Lehy/ Noweda	Isopropyl alcohol 70%	182741	1
Ley Pharma GmbH/ Gehe	Isopropyl alcohol 70%	174551	1
Ley Pharma GmbH/ Gehe	Isopropyl alcohol 70%	182132	1
Ley Pharma/Phönix	Isopropyl alcohol 70%	153741	1
ley Pharma	Isopropyl alcohol 70%	200531	1
Ley/Noweda	Isopropyl alcohol 70%	170951	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ley/Noweda	Isopropyl alcohol 70%	172241	1
Ley/Noweda	Isopropyl alcohol 70%	174521	3
leyh Pharma GmbH 98596...	Isopropyl alcohol 70%	200641	1
leyh Pharma GmbH 98596...	Isopropyl alcohol 70%	200911	1
Leyh Pharma GmbH / Noweda	Isopropyl alcohol 70%	181141	1
Leyh Pharma GmbH / Noweda	Isopropyl alcohol 70%	183511	1
Leyh Pharma GmbH / Noweda	Isopropyl alcohol 70%	191351	1
Leyh Pharma GmbH / Noweda	Isopropyl alcohol 70%	201222	1
Leyh Pharma GmbH/ Allia...	Isopropyl alcohol 70%	201641	1
Leyh Pharma GmbH/Sanacorp	Isopropyl alcohol 70%	200532	1
Leyh Pharma GmbH	Isopropyl alcohol 70%	164021	1
Leyh Pharma GmbH	Isopropyl alcohol 70%	181212	1
Leyh Pharma GmbH	Isopropyl alcohol 70%	181231	1
Leyh Pharma Gmbh	Isopropyl alcohol 70%	181611	1
Leyh Pharma Gmbh	Isopropyl alcohol 70%	183451	1
Leyh Pharma GmbH	Isopropyl alcohol 70%	191041	1
Leyh Pharma GmbH	Isopropyl alcohol 70%	201541	1
Leyh Pharma GmbH	Isopropyl alcohol 70%	202651	1
Leyh Pharma/ AHD	Isopropyl alcohol 70%	191411	1
Leyh Pharma/Kehr	Isopropyl alcohol 70%	201541	1
Leyh Pharma/Noweda	Isopropyl alcohol 70%	183521	1
Leyh Pharma/Phoenix	Isopropyl alcohol 70%	200531	1
Leyh Pharma	Isopropyl alcohol 70%	132021	1
Leyh Pharma	Isopropyl alcohol 70%	141311	1
Leyh Pharma	Isopropyl alcohol 70%	143541	1
Leyh Pharma	Isopropyl alcohol 70%	152121	1
Leyh Pharma	Isopropyl alcohol 70%	154531	1
Leyh Pharma	Isopropyl alcohol 70%	155021	1
leyh pharma	Isopropyl alcohol 70%	161411	1
Leyh Pharma	Isopropyl alcohol 70%	164721	1
Leyh Pharma	Isopropyl alcohol 70%	170721	2
Leyh Pharma	Isopropyl alcohol 70%	170951	1
Leyh Pharma	Isopropyl alcohol 70%	174921	1
Leyh Pharma	Isopropyl alcohol 70%	184341	1
leyh pharma	Isopropyl alcohol 70%	201522	1
leyh pharma	Isopropyl alcohol 70%	201643	1
Leyh Pharms	Isopropyl alcohol 70%	152521	1
Leyh Pharna GmbH / Geibo	Isopropyl alcohol 70%	193711	1
Leyh/Gehe	Isopropyl alcohol 70%	183121	1
Leyh/Gehe	Isopropyl alcohol 70%	183441	1
Leyh/Noweda	Isopropyl alcohol 70%	183211	1
Leyh/Noweda	Isopropyl alcohol 70%	201731	1
Leyh/Phoenix	Isopropyl alcohol 70%	181832	1
Leyh/Phönix	Isopropyl alcohol 70%	183433	1
Leyh-Pharma/Spangro	Isopropyl alcohol 70%	201622	1
Lichtenstein	Isopropyl alcohol 70%	123456789	1
Linden-Apotheke Görlitz	Isopropyl alcohol 70%	2816E-01080	1
Linden-Apotheke Görlitz	Isopropyl alcohol 70%	2915Q-01080	1
Lornsen Apotheke	Isopropyl alcohol 70%	123456	1
Löwen Apotheke	Isopropyl alcohol 70%	H28122012P1	1
M.Kastner	Isopropyl alcohol 70%	2914M-01080	1
M.Kastner	Isopropyl alcohol 70%	3314I-01080	1
MAROS Arznei, Noweda	Isopropyl alcohol 70%		1
Martinus-Apotheke Defek...	Isopropyl alcohol 70%	A-201119-1D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-021116-2D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-030715-1D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-110716-2D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-131117-1D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-131213-1D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-150216-1D	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Martinus-Apotheke	Isopropyl alcohol 70%	A-150314-1D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-171013-1D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-191214-1D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-200117-1D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-241115-1D	1
Martinus-Apotheke	Isopropyl alcohol 70%	A-300714-1D	1
N.N.	Isopropyl alcohol 70%		1
Nauto	Isopropyl alcohol 70%	180131	1
Neue-Apotheke Defektur	Isopropyl alcohol 70%	2120M-01080	1
Neugereut Apotheke	Isopropyl alcohol 70%		2
Neugereut Apotheke	Isopropyl alcohol 70%	214Q-01080	1
Neugereut Apotheke	Isopropyl alcohol 70%	3531Q-01080	1
Neugereut Apotheke	Isopropyl alcohol 70%	4913M-01080	1
Neugereut Apotheke	Isopropyl alcohol 70%	713M-01080	1
Noweda 12.12.2019	Isopropyl alcohol 70%	53608	1
Noweda am 13.10.2017	Isopropyl alcohol 70%	17082102	1
Noweda/ Hedinger	Isopropyl alcohol 70%	53383	1
Noweda/ Hedinger	Isopropyl alcohol 70%	53408	1
Noweda/ Hedinger	Isopropyl alcohol 70%	53426	1
Noweda/ Hedinger	Isopropyl alcohol 70%	53571	1
Noweda/Hedinger	Isopropyl alcohol 70%	53343	1
Noweda/Hedinger	Isopropyl alcohol 70%	53350	1
Noweda/Hedinger	Isopropyl alcohol 70%	53428	1
Noweda/Hedinger	Isopropyl alcohol 70%	53504	1
Noweda/Hedinger	Isopropyl alcohol 70%	53537	1
Noweda/Hedinger	Isopropyl alcohol 70%	53552	2
Noweda/Hedinger	Isopropyl alcohol 70%	53589	1
Noweda/hedinger	Isopropyl alcohol 70%	53593	2
Noweda/Hedinger	Isopropyl alcohol 70%	53663	1
Noweda	Isopropyl alcohol 70%		3
Noweda	Isopropyl alcohol 70%	18114001	1
Noweda	Isopropyl alcohol 70%	18308001	1
Noweda	Isopropyl alcohol 70%	19138801	1
noweda	Isopropyl alcohol 70%	2600787T	1
Noweda	Isopropyl alcohol 70%	53333	1
Noweda	Isopropyl alcohol 70%	53417	1
Noweda	Isopropyl alcohol 70%	53422	1
Noweda	Isopropyl alcohol 70%	53542	1
Noweda	Isopropyl alcohol 70%	53589	1
Noweda	Isopropyl alcohol 70%	53650	1
Noweda	Isopropyl alcohol 70%	53675	1
Noweda	Isopropyl alcohol 70%	53735	1
O. Fischar	Isopropyl alcohol 70%	4110013	5
O. Fischar	Isopropyl alcohol 70%	4119113	6
Ohm Apotheke	Isopropyl alcohol 70%	12345	1
Ostertor Apotheke	Isopropyl alcohol 70%	2819I-01080	1
Ottlik	Isopropyl alcohol 70%	2015090420	1
Otto Fischar / Jenne	Isopropyl alcohol 70%	4119111	1
Otto Fischar / PHÖNIX	Isopropyl alcohol 70%	4119012	1
Otto Fischar GmbH & Co....	Isopropyl alcohol 70%	4115012	1
Otto Fischar GmbH & Co....	Isopropyl alcohol 70%	4115114	2
Otto Fischar GmbH/Phoenix	Isopropyl alcohol 70%	4110033	1
Otto Fischar GmbH	Isopropyl alcohol 70%	4115084	1
Otto Fischar GmbH	Isopropyl alcohol 70%	4116033	1
Otto Fischar gmbh	Isopropyl alcohol 70%	4116045	1
Otto Fischar GmbH	Isopropyl alcohol 70%	4116083	1
Otto Fischar/Fiebig	Isopropyl alcohol 70%	4117091	5
Otto Fischar/Fiebig	Isopropyl alcohol 70%	4117092	10
Otto Fischar/Phönix	Isopropyl alcohol 70%	4110042	1
Otto Fischar/Phönix	Isopropyl alcohol 70%	4119072	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Otto Fischar/Phönix	Isopropyl alcohol 70%	4119092	1
Otto Fischar/Phönix	Isopropyl alcohol 70%	4119101	1
Otto Fischar	Isopropyl alcohol 70%	4110038	1
Otto Fischar	Isopropyl alcohol 70%	4117081	1
Otto Fischer GmbH	Isopropyl alcohol 70%	4118073	1
Otto Fischer/Fiebig	Isopropyl alcohol 70%	4117041	15
Otto Fischer/Fiebig	Isopropyl alcohol 70%	4117042	11
Otto Fischer/Phönix	Isopropyl alcohol 70%	4117043	20
Otto Fischer/Phönix	Isopropyl alcohol 70%	4119022	1
Otto Fischer	Isopropyl alcohol 70%	4117121	1
Otto Fischer	Isopropyl alcohol 70%	4118011	1
Otto Fischer	Isopropyl alcohol 70%	4118062	1
Otto FischerGmbH&Co.KG/...	Isopropyl alcohol 70%	4118033	1
Otto FischerGmbH&Co.KG/...	Isopropyl alcohol 70%	4118071	1
OttoFischar/Fiebig	Isopropyl alcohol 70%	41170	1
Phoen	Isopropyl alcohol 70%	162621	1
Phoenix 17.03.2014	Isopropyl alcohol 70%	53280	1
Phoenix/AHD	Isopropyl alcohol 70%	53329	1
Phoenix/Cealo	Isopropyl alcohol 70%	53496	1
Phoenix/Hedinger	Isopropyl alcohol 70%	53493	1
Phoenix/Hedinger	Isopropyl alcohol 70%	53578	1
Phoenix	Isopropyl alcohol 70%	18235302	2
Phoenix	Isopropyl alcohol 70%	20002772001	1
Phoenix	Isopropyl alcohol 70%	303104	1
Phoenix	Isopropyl alcohol 70%	4110041	1
Phoenix	Isopropyl alcohol 70%	4116125053416	1
Phoenix	Isopropyl alcohol 70%	4116126	6
Phoenix	Isopropyl alcohol 70%	4117126	14
Phoenix	Isopropyl alcohol 70%	4119071	2
Phoenix	Isopropyl alcohol 70%	4119081	13
Phoenix	Isopropyl alcohol 70%	53447	1
Phoenix	Isopropyl alcohol 70%	53495	3
Phoenix	Isopropyl alcohol 70%	53573	1
Phoenix	Isopropyl alcohol 70%	53651	1
Phoenix	Isopropyl alcohol 70%	53673	1
Phoenix	Isopropyl alcohol 70%	53732	1
Phoenix	Isopropyl alcohol 70%	53756	1
Phoenix	Isopropyl alcohol 70%	53769	1
Phoenix	Isopropyl alcohol 70%	6909-BIP	1
Phönix E.K:5,68 -1L	Isopropyl alcohol 70%	53474	2
Phönix / Otto Fischar G...	Isopropyl alcohol 70%	4110043	1
Phönix 05.01.15	Isopropyl alcohol 70%	53303	1
Phönix 13.01.2014	Isopropyl alcohol 70%	13319404	1
Phönix/ Hedinger	Isopropyl alcohol 70%	303155	1
Phönix/Fischar	Isopropyl alcohol 70%	4117102	6
Phönix/fischar	Isopropyl alcohol 70%	4118073	1
Phönix/Fischar	Isopropyl alcohol 70%	4119065	1
Phönix/Hedinger	Isopropyl alcohol 70%	53153	1
Phönix/Hedinger	Isopropyl alcohol 70%	53341	1
Phönix/Hedinger	Isopropyl alcohol 70%	53426	1
Phönix/Hedinger	Isopropyl alcohol 70%	53486	2
Phönix/Hedinger	Isopropyl alcohol 70%	53513	1
Phönix/Hedinger	Isopropyl alcohol 70%	53525	1
Phönix/Leyhpharma	Isopropyl alcohol 70%	180311	1
Phönix	Isopropyl alcohol 70%	1073902	1
Phönix	Isopropyl alcohol 70%	1217603	1
Phönix	Isopropyl alcohol 70%	13217601	1
Phonix	Isopropyl alcohol 70%	14026403	1
Phönix	Isopropyl alcohol 70%	18308001	1
Phönix	Isopropyl alcohol 70%	18308101	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Isopropyl alcohol 70%	19138601	1
Phönix	Isopropyl alcohol 70%	192621001	1
Phönix	Isopropyl alcohol 70%	53252	1
Phönix	Isopropyl alcohol 70%	53413	1
Phönix	Isopropyl alcohol 70%	53442	1
Phönix	Isopropyl alcohol 70%	53475	1
Phönix	Isopropyl alcohol 70%	53488	1
Phönix	Isopropyl alcohol 70%	53519	1
Phönix	Isopropyl alcohol 70%	535553	2
Phönix	Isopropyl alcohol 70%	53573	1
Phönix	Isopropyl alcohol 70%	53581	1
Phönix	Isopropyl alcohol 70%	53608	6
Phönix	Isopropyl alcohol 70%	53732	1
Post Apotheke	Isopropyl alcohol 70%	326-321	1
Post Apotheke	Isopropyl alcohol 70%	326-322	1
Post Apotheke	Isopropyl alcohol 70%	326-323	1
Post Apotheke	Isopropyl alcohol 70%	326-324	1
Post Apotheke	Isopropyl alcohol 70%	326-325	1
Post Apotheke	Isopropyl alcohol 70%	326-326	1
Post Apotheke	Isopropyl alcohol 70%	326-327	1
Praxisbedarf Neurologen	Isopropyl alcohol 70%		5
Purren Apotheke	Isopropyl alcohol 70%	18043	1
Rezeptur	Isopropyl alcohol 70%	1018IS701020A	1
Rezeptur	Isopropyl alcohol 70%	1018IS701020B	1
Rezeptur	Isopropyl alcohol 70%	1018IS701020C	1
Rezeptur	Isopropyl alcohol 70%	1019IS701021A	1
Rezeptur	Isopropyl alcohol 70%	1019IS701021B	1
Rezeptur	Isopropyl alcohol 70%	1019IS701021C	1
Rezeptur	Isopropyl alcohol 70%	1117IS701119	1
Rezeptur	Isopropyl alcohol 70%	1117IS701119A	1
Rezeptur	Isopropyl alcohol 70%	1117IS701119B	1
Rezeptur	Isopropyl alcohol 70%	1150617	1
Rezeptur	Isopropyl alcohol 70%	117IS701118A	1
Rezeptur	Isopropyl alcohol 70%	117IS701118B	1
Rezeptur	Isopropyl alcohol 70%	117IS701118C	1
Rezeptur	Isopropyl alcohol 70%	118IS700120A	1
Rezeptur	Isopropyl alcohol 70%	118IS700120B	1
Rezeptur	Isopropyl alcohol 70%	1216IS701218A	1
Rezeptur	Isopropyl alcohol 70%	1216IS701218B	1
Rezeptur	Isopropyl alcohol 70%	1218IS1220A	1
Rezeptur	Isopropyl alcohol 70%	1218IS1220B	1
Rezeptur	Isopropyl alcohol 70%	216ISO700218A	1
Rezeptur	Isopropyl alcohol 70%	216ISO700218B	1
Rezeptur	Isopropyl alcohol 70%	219IS700221A	1
Rezeptur	Isopropyl alcohol 70%	219IS700221B	1
Rezeptur	Isopropyl alcohol 70%	219IS700221C	1
Rezeptur	Isopropyl alcohol 70%	316IS700318A	1
Rezeptur	Isopropyl alcohol 70%	316IS700318B	1
Rezeptur	Isopropyl alcohol 70%	318IS700320A	1
Rezeptur	Isopropyl alcohol 70%	318IS700320B	1
Rezeptur	Isopropyl alcohol 70%	318IS700320C	1
Rezeptur	Isopropyl alcohol 70%	416IS700318A	1
Rezeptur	Isopropyl alcohol 70%	416IS700318B	1
Rezeptur	Isopropyl alcohol 70%	416IS700318C	1
Rezeptur	Isopropyl alcohol 70%	417IS700419	1
Rezeptur	Isopropyl alcohol 70%	417IS700419B	1
Rezeptur	Isopropyl alcohol 70%	417IS700419C	1
Rezeptur	Isopropyl alcohol 70%	419IS700421A	1
Rezeptur	Isopropyl alcohol 70%	419IS700421B	1
Rezeptur	Isopropyl alcohol 70%	419IS700421C	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Rezeptur	Isopropyl alcohol 70%	419IS700421D	1
Rezeptur	Isopropyl alcohol 70%	420IS700422A	1
Rezeptur	Isopropyl alcohol 70%	420IS700422B	1
Rezeptur	Isopropyl alcohol 70%	420IS700422C	1
Rezeptur	Isopropyl alcohol 70%	420IS700422D	1
Rezeptur	Isopropyl alcohol 70%	420IS700422E	1
Rezeptur	Isopropyl alcohol 70%	420IS700422F	1
Rezeptur	Isopropyl alcohol 70%	518IS700520A	1
Rezeptur	Isopropyl alcohol 70%	518IS700520B	1
Rezeptur	Isopropyl alcohol 70%	518IS700520C	1
Rezeptur	Isopropyl alcohol 70%	616IS700618A	1
Rezeptur	Isopropyl alcohol 70%	616IS700618B	1
Rezeptur	Isopropyl alcohol 70%	616IS700618C	1
Rezeptur	Isopropyl alcohol 70%	620IS700622	1
Rezeptur	Isopropyl alcohol 70%	620IS700622B	1
Rezeptur	Isopropyl alcohol 70%	620IS700622C	1
Rezeptur	Isopropyl alcohol 70%	716IS700718	1
Rezeptur	Isopropyl alcohol 70%	717IS700719A	1
Rezeptur	Isopropyl alcohol 70%	717IS700719B	1
Rezeptur	Isopropyl alcohol 70%	719IS700721A	1
Rezeptur	Isopropyl alcohol 70%	719IS700721B	1
Rezeptur	Isopropyl alcohol 70%	719IS700721C	1
Rezeptur	Isopropyl alcohol 70%	719IS700721D	1
Rezeptur	Isopropyl alcohol 70%	817IS0819	1
Rezeptur	Isopropyl alcohol 70%	817IS0819B	1
Rezeptur	Isopropyl alcohol 70%	817IS0819C	1
Rezeptur	Isopropyl alcohol 70%	818IS700820A	1
Rezeptur	Isopropyl alcohol 70%	818IS700820B	1
Rezeptur	Isopropyl alcohol 70%	916IS700918	1
Rezeptur	Isopropyl alcohol 70%	916IS700918A	1
Rezeptur	Isopropyl alcohol 70%	916IS700918C	1
Rezeptur	Isopropyl alcohol 70%	IS70112017	1
Rezeptur	Isopropyl alcohol 70%	IS70122017	1
Rezeptur	Isopropyl alcohol 70%	IS70122017B	1
Rezeptur	Isopropyl alcohol 70%	ISO70092017	1
Rezeptur	Isopropyl alcohol 70%	Rezeptur	1
Rodh/Sanacorp	Isopropyl alcohol 70%	3915N-01080	1
Römerapo.	Isopropyl alcohol 70%	53316	1
Rondell Apotheke	Isopropyl alcohol 70%	1115Q-07123	1
Rondell Apotheke	Isopropyl alcohol 70%	1316I-01080	1
Rondell Apotheke	Isopropyl alcohol 70%	1316l-01080	2
Rondell Apotheke	Isopropyl alcohol 70%	245Q-07123	1
Rondell Apotheke	Isopropyl alcohol 70%	2613Q-01080	1
Rondell Apotheke	Isopropyl alcohol 70%	2615E-07123	1
Rondell Apotheke	Isopropyl alcohol 70%	2814E-07123	1
Rondell Apotheke	Isopropyl alcohol 70%	3016E-01080	1
Rondell Apotheke	Isopropyl alcohol 70%	3113M-07123	1
Rondell Apotheke	Isopropyl alcohol 70%	3215M-07123	1
Rondell Apotheke	Isopropyl alcohol 70%	3816A-01080	1
Rondell Apotheke	Isopropyl alcohol 70%	4215E-07123	1
Rondell Apotheke	Isopropyl alcohol 70%	4814E-07123	1
Rondell Apotheke	Isopropyl alcohol 70%	4815M-01080	1
Rondell Apotheke	Isopropyl alcohol 70%	716M-01080	1
Rondell	Isopropyl alcohol 70%	1014M-07123	1
Rondell	Isopropyl alcohol 70%	414Q-07123	1
rondell-Apotheke	Isopropyl alcohol 70%	3413M-07123	1
Rondell-Apotheke	Isopropyl alcohol 70%	3814Q-07123	1
Rosen Apotheke Dr.Erdal	Isopropyl alcohol 70%	2003209-1	1
Rosen Apotheke Dr.Erdal	Isopropyl alcohol 70%	2003209-2	1
Rosen Apotheke	Isopropyl alcohol 70%	2017E-07125	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
sana /Hedinger	Isopropyl alcohol 70%	53772	1
Sana/ Hedinger	Isopropyl alcohol 70%	53682	1
Sana/ Hedinger	Isopropyl alcohol 70%	53725	1
Sanacorp (Hedinger)	Isopropyl alcohol 70%	53397	1
Sanacorp 26.11.15	Isopropyl alcohol 70%	2600905T	1
Sanacorp WE: 21.11.17 1...	Isopropyl alcohol 70%	53460	1
Sanacorp WE: 25.10.17 1...	Isopropyl alcohol 70%	53452	1
Sanacorp/ Hedinger	Isopropyl alcohol 70%	53497	1
Sanacorp/ Hedinger	Isopropyl alcohol 70%	53534	2
sanacorp/hedinger	Isopropyl alcohol 70%	53499	1
Sanacorp/HEDINGER	Isopropyl alcohol 70%	53531	1
Sanacorp/Winthrop WE:18...	Isopropyl alcohol 70%	2600929T	1
Sanacorp	Isopropyl alcohol 70%	14267805	1
Sanacorp	Isopropyl alcohol 70%	16319102	1
Sanacorp	Isopropyl alcohol 70%	17082103	1
Sanacorp	Isopropyl alcohol 70%	2218E-01080	1
Sanacorp	Isopropyl alcohol 70%	303169	1
Sanacorp	Isopropyl alcohol 70%	418E-01080	1
Sanacorp	Isopropyl alcohol 70%	419E-01080	1
Sanacorp	Isopropyl alcohol 70%	53417	1
Sanacorp	Isopropyl alcohol 70%	53430	1
Sanacorp	Isopropyl alcohol 70%	53550	1
Sanacorp	Isopropyl alcohol 70%	53571	1
Sanacorp	Isopropyl alcohol 70%	53632	2
Sanacorp	Isopropyl alcohol 70%	53661	2
Sanacorp	Isopropyl alcohol 70%	53770	1
Sanacorp	Isopropyl alcohol 70%	53788	7
Sanacorp	Isopropyl alcohol 70%	53792	1
SanacorpWE:19.01.2017 ...	Isopropyl alcohol 70%	53407	2
Schwanen-Apotheke, Köster	Isopropyl alcohol 70%	160104-1	1
Schwanen-Apothek-Köster	Isopropyl alcohol 70%	151028-1	1
selbst hergestellt	Isopropyl alcohol 70%	120O-01080	1
selbst hergestellt	Isopropyl alcohol 70%	1520A-01080	1
selbst hergestellt	Isopropyl alcohol 70%	1520M-01080	1
selbst hergestellt	Isopropyl alcohol 70%	1520N-01080	1
selbst hergestellt	Isopropyl alcohol 70%	1MD20200321	1
selbst hergestellt	Isopropyl alcohol 70%	1MD20200404	1
selbst hergestellt	Isopropyl alcohol 70%	2820A-01080	1
selbst hergestellt	Isopropyl alcohol 70%	2MD20200321	1
selbst hergestellt	Isopropyl alcohol 70%	2MD20200404	1
selbst hergestellt	Isopropyl alcohol 70%	3MD20200404	1
selbst	Isopropyl alcohol 70%		2
selbst	Isopropyl alcohol 70%	7106	1
selbst	Isopropyl alcohol 70%	8108	1
Selbstherstellung	Isopropyl alcohol 70%	1017A-07096	1
Selbstherstellung	Isopropyl alcohol 70%	1020E-01080	1
Sieg-Apotheke	Isopropyl alcohol 70%	661302027	1
sittig	Isopropyl alcohol 70%	10815	1
sittig	Isopropyl alcohol 70%	130616	1
Sittig	Isopropyl alcohol 70%	150416	1
Sonnen - Apotheke	Isopropyl alcohol 70%	9/16	1
SonnenApo	Isopropyl alcohol 70%	1920E-01080	1
SonnenApo	Isopropyl alcohol 70%	3220E-01080	2
SonnenApo	Isopropyl alcohol 70%	3819I-01080	1
Sonnen-Apotheke Wefensl...	Isopropyl alcohol 70%	17/2015	1
Sonnen-Apotheke Wefensl...	Isopropyl alcohol 70%	18/16	1
Sonnen-Apotheke Wefensl...	Isopropyl alcohol 70%	23/16	1
Sonnen-Apotheke Wefensl...	Isopropyl alcohol 70%	33/15	1
Sonnen-Apotheke Wefensl...	Isopropyl alcohol 70%	37/15	1
Sonnen-Apotheke Wefensl...	Isopropyl alcohol 70%	44/15	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sonnen-Apotheke	Isopropyl alcohol 70%	210513H1	1
Sonnen-Apotheke	Isopropyl alcohol 70%	3/16	1
Sonnenberg-Apotheke	Isopropyl alcohol 70%	100214	1
St. Gertrud Apotheke	Isopropyl alcohol 70%	250222	1
St. Georg Apotheke	Isopropyl alcohol 70%	7071193B	1
St.Georg	Isopropyl alcohol 70%	701193B	2
Stadt-Apo	Isopropyl alcohol 70%	1518Q-018080	1
Stadt-Apo	Isopropyl alcohol 70%	1619M-01080	3
Stadt-Apo	Isopropyl alcohol 70%	2418A-01080	1
Stadt-Apo	Isopropyl alcohol 70%	3118M-01080	1
Stadt-Apo	Isopropyl alcohol 70%	3518l-01080	1
Stadt-Apo	Isopropyl alcohol 70%	4318Q-01080	2
Stadt-Apo	Isopropyl alcohol 70%	5217I-01080	1
Stadt-Apo	Isopropyl alcohol 70%	718A-01080	1
Stadt-Apo	Isopropyl alcohol 70%	720E-01080	1
Stadtapotheke Achern	Isopropyl alcohol 70%	4871B-01080	1
STERN	Isopropyl alcohol 70%	131202002	1
STERN	Isopropyl alcohol 70%	140507002	1
STERN	Isopropyl alcohol 70%	140617002	1
Stern-Defektur	Isopropyl alcohol 70%	130321004	1
Stern-Defektur	Isopropyl alcohol 70%	130425004	1
Stern-Defektur	Isopropyl alcohol 70%	130703007	1
Stern-Defektur	Isopropyl alcohol 70%	130805002	1
Stern-Defektur	Isopropyl alcohol 70%	130927002	1
Stern-Defektur	Isopropyl alcohol 70%	131108001	1
Stern-Defektur	Isopropyl alcohol 70%	131216005	1
Stern-Defektur	Isopropyl alcohol 70%	140116004	1
Stern-Defektur	Isopropyl alcohol 70%	140210001	1
Stern-Defektur	Isopropyl alcohol 70%	140310001	1
Stern-Defektur	Isopropyl alcohol 70%	140404005	1
Stern-Defektur	Isopropyl alcohol 70%	20130912	1
Stern-Defektur	Isopropyl alcohol 70%	20131022	1
Stern-Rezeptur	Isopropyl alcohol 70%	131015001	1
Stifts-Apotheke	Isopropyl alcohol 70%	2716Q-01080	1
Stifts-Apotheke	Isopropyl alcohol 70%	317E-01080	1
Teofarma 12.8.21	Isopropyl alcohol 70%	140006	2
Teofarma srl/ GEHE	Isopropyl alcohol 70%	140703	1
Teofarma srl	Isopropyl alcohol 70%	140701	1
Teofarma/Noweda	Isopropyl alcohol 70%	140806	1
Teofarma/Noweda	Isopropyl alcohol 70%	140902	1
Teofarma/Spangro	Isopropyl alcohol 70%	140002	1
Teopharma	Isopropyl alcohol 70%	140804	3
Töste Apotheke	Isopropyl alcohol 70%	1520A-01080	1
unbekannt	Isopropyl alcohol 70%	1320Q-01080	1
Unisan	Isopropyl alcohol 70%	13155502	1
Viehstrich-Apotheke	Isopropyl alcohol 70%	2919I-01080	1
Viehstrich-Apotheke	Isopropyl alcohol 70%	3220A-01080	1
Viehstrich-Apotheke	Isopropyl alcohol 70%	3520M-01080	1
Viehstrich-Apotheke	Isopropyl alcohol 70%	4120E-01080	1
Viehstrich-Apotheke	Isopropyl alcohol 70%	520A-01080	1
Viehstrich-Apotheke	Isopropyl alcohol 70%	621B-01080	1
WE 27.12.16 Hedinger/Ph...	Isopropyl alcohol 70%	53401	1
WE: Phoenix 19.10.2016 ...	Isopropyl alcohol 70%	53388	2
Wensauer Apotheke	Isopropyl alcohol 70%		1
Werner Hofmann/Werner H...	Isopropyl alcohol 70%	53580	1
Winthorp AM/NOW	Isopropyl alcohol 70%	2600790T	1
Winthorp	Isopropyl alcohol 70%	2601013T	1
Winthorp	Isopropyl alcohol 70%	26010231	1
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2600802T	1
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2600857T	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2600807T	1
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2600830T	1
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2600846T	1
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2600915T	1
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2600916T	1
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2601007T	1
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2601021T	1
Winthrop Arzneimittel G...	Isopropyl alcohol 70%	2601026T	1
Winthrop Arzneimittel	Isopropyl alcohol 70%	2600969T	1
Winthrop/Alliance Healt...	Isopropyl alcohol 70%	2600875T	1
Winthrop/Alliance Healt...	Isopropyl alcohol 70%	2600892t	1
Winthrop/Phönix	Isopropyl alcohol 70%	2600852T	1
Winthrop/Phönix	Isopropyl alcohol 70%	2600966T	1
Winthrop/Sanacorp	Isopropyl alcohol 70%	2600873T	1
Winthrop/Sanacorp	Isopropyl alcohol 70%	2600882t	1
Winthrop/Sanacorp	Isopropyl alcohol 70%	2600981T	1
Winthrop	Isopropyl alcohol 70%	2600670T	1
Winthrop	Isopropyl alcohol 70%	2600681T	1
Winthrop	Isopropyl alcohol 70%	2600685T	1
Winthrop	Isopropyl alcohol 70%	2600706T	1
winthrop	Isopropyl alcohol 70%	2600735T	1
Winthrop	Isopropyl alcohol 70%	2600846T	1
winthrop	Isopropyl alcohol 70%	2600850T	1
Winthrop	Isopropyl alcohol 70%	2600870T	1
Winthrop	Isopropyl alcohol 70%	2600938T	1
Winthrop	Isopropyl alcohol 70%	2600940T	1
Winthrop	Isopropyl alcohol 70%	2600977T	1
Wintrop AM GmbH/Anzag	Isopropyl alcohol 70%	2600754T	1
Wintrop AM GmbH	Isopropyl alcohol 70%	2600749T	1
Wintrop	Isopropyl alcohol 70%	2600863T	2
Wintrop	Isopropyl alcohol 70%	2600869t	1
Wintrop	Isopropyl alcohol 70%	2600908t	1
Wintrop	Isopropyl alcohol 70%	2600969T	1
Wintrop	Isopropyl alcohol 70%	80616-12	1
wir leben Apotheke Tespe	Isopropyl alcohol 70%	3415M-01080	1
Wolf- Apotheke / Defektur	Isopropyl alcohol 70%	50914/51Wlo	1
Wolf-Apotheke / Defektur	Isopropyl alcohol 70%	123456	2
Wolf-Apotheke / Defektur	Isopropyl alcohol 70%	40729/50Hk	1
Wolf-Apotheke / Defektur	Isopropyl alcohol 70%	41017/50Wlo	1
Wolf-Apotheke / Defektur	Isopropyl alcohol 70%	41125/1Hk	1
Wolf-Apotheke / Defektur	Isopropyl alcohol 70%	41212/50Si	1
Wolf-Apotheke / Defektur	Isopropyl alcohol 70%	50204/50Bz	1
Wolf-Apotheke	Isopropyl alcohol 70%	60623/50Dre	1
Zentiva/Alliance Health...	Isopropyl alcohol 70%	2600866T	1
Zentiva/Alliance Health...	Isopropyl alcohol 70%	2600887T	1
Zentiva/Alliance Health...	Isopropyl alcohol 70%	2600906T	2
Zentiva/Alliance Health...	Isopropyl alcohol 70%	2600948T	1
Zentiva/Alliance Health...	Isopropyl alcohol 70%	2600953T	1

- 292 966 spectra from 1324 *Apo-Ident* customers from a total of 51 257 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Validation results

The validation runs checked whether the substance/substance group *Isopropyl alcohol 70%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Isopropyl alcohol 70%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	520	0	67 979
Type B	0	880	0	110 433
Type C	0	4478	14	292 966

The substance/substance group *Isopropyl alcohol 70%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 98.8462 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.3182 %)
Type C	100.0000 % (> 99.6875 %)	99.6883 % (> 99.6215 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Isopropyl alcohol 70%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Camphor spirit	37.19	–
Spirit soap	65.28	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Isopropyl alcohol 70%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31388	31388	0.00	76.22
31622	32318	3.25	61.27
31831	32216	2.81	72.54
32216	32216	0.00	75.02
32318	32318	0.00	59.06
32319	32319	0.00	58.61
32320	32320	0.00	60.31
32322	32322	0.00	60.04
33105	33105	0.00	58.50
33106	33106	0.00	59.20
36054	36054	0.00	54.00
36058	36058	0.00	56.04

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Isopropyl myristate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30977-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Isopropyl myristate; Isopropylis myristas

Special notes

When selecting the *Isopropyl myristate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Isopropyl myristate	6	5	111

Second-stage model

For differentiation of the substance/substance group *Isopropyl myristate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Isopropyl myristate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Isopropyl myrist...	12171522	30977	80	1408077
Caelo	Isopropyl myrist...	13144311	31363	40	1412539
Caelo	Isopropyl myrist...	192333	34726	40	20190911*
Euro OTC	Isopropyl myrist...	1303034-03	31530	60	20130502
Euro OTC	Isopropyl myrist...	1508035	31774	60	20150907*
Euro OTC	Isopropyl myrist...	2008023	35081	40	20200916*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 320 spectra of 6 reference samples from the substance/substance group *Isopropyl myristate*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 179 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 200 spectra of 5 reference samples from the substance/substance group *Isopropyl myristate*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 5 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Isopropyl myristate	172729	33882	40
Caelo	Isopropyl myristate	181308	34234	40
Caelo	Isopropyl myristate	21003927	36068	40
Euro OTC	Isopropyl myristate	1608039	32776	40
Euro OTC	Isopropyl myristate	1801035	33926	40

- 111 113 spectra from a total of 2661 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 620 spectra from 314 *Apo-Ident* customers from 114 batches from the substance/substance group *Isopropyl myristate*.
- Among them are spectra of independent samples from 111 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Isopropyl myristate	1508035-02	1
AHD/Euro	Isopropyl myristate	1801035	1
AHD	Isopropyl myristate	1301992	1
AHD	Isopropyl myristate	15438215	1
Anzag 1.03.13 ek:3,45EUR	Isopropyl myristate	121203101	2
Anzag	Isopropyl myristate	120100801	1
apo-ident	Isopropyl myristate	1608039-01	1
Bombastus	Isopropyl myristate	19003290	1
Caelo	Isopropyl myristate	1(18130801)	1
Caelo	Isopropyl myristate	11178415	1
Caelo	Isopropyl myristate	12171518	1
Caelo	Isopropyl myristate	12171522	3
Caelo	Isopropyl myristate	12248600	1
Caelo	Isopropyl myristate	130034-02	2
Caelo	Isopropyl myristate	13019902	2
Caelo	Isopropyl myristate	13019910	2
Caelo	Isopropyl myristate	1303034-01	1
Caelo	Isopropyl myristate	130303402	1
Caelo	Isopropyl myristate	13144308	7
Caelo	Isopropyl myristate	1407015-01	1
Caelo	Isopropyl myristate	14155902	1
Caelo	Isopropyl myristate	14155909	7
Caelo	Isopropyl myristate	14155914	1
Caelo	Isopropyl myristate	15035906	8
Caelo	Isopropyl myristate	15035907	1
Caelo	Isopropyl myristate	1508035-01	5
Caelo	Isopropyl myristate	1508035-02	1
Caelo	Isopropyl myristate	15248304	4
Caelo	Isopropyl myristate	15248306	6
Caelo	Isopropyl myristate	15284804	1
Caelo	Isopropyl myristate	15284807	3
Caelo	Isopropyl myristate	15438024	1
Caelo	Isopropyl myristate	15438204	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl myristate	15438206	1
Caelo	Isopropyl myristate	15438210	6
Caelo	Isopropyl myristate	15438215	7
Caelo	Isopropyl myristate	1608039-01	2
Caelo	Isopropyl myristate	17272901	15
Caelo	Isopropyl myristate	17272902	1
Caelo	Isopropyl myristate	17359501	9
Caelo	Isopropyl myristate	17739501	1
Caelo	Isopropyl myristate	1801035-01	3
Caelo	Isopropyl myristate	18130801	19
Caelo	Isopropyl myristate	18130802-01	1
Caelo	Isopropyl myristate	18130803	24
Caelo	Isopropyl myristate	18130806	1
Caelo	Isopropyl myristate	18130808	9
Caelo	Isopropyl myristate	18130893	1
Caelo	Isopropyl myristate	18310808	1
Caelo	Isopropyl myristate	19059103	15
Caelo	Isopropyl myristate	19059108	10
Caelo	Isopropyl myristate	192333001	1
Caelo	Isopropyl myristate	192333004	7
Caelo	Isopropyl myristate	192333005	1
Caelo	Isopropyl myristate	192333008	15
Caelo	Isopropyl myristate	19233304	1
Caelo	Isopropyl myristate	1932333004	1
Caelo	Isopropyl myristate	2000001753006	1
Caelo	Isopropyl myristate	20001753001	9
Caelo	Isopropyl myristate	20001753006	9
Caelo	Isopropyl myristate	2000409098003	1
Caelo	Isopropyl myristate	20004098003	8
Caelo	Isopropyl myristate	20004098007	1
Caelo	Isopropyl myristate	2001753001	1
Caelo	Isopropyl myristate	2091713	1
Caelo	Isopropyl myristate	21071805	1
Caelo	Isopropyl myristate	22000431004	5
Caelo	Isopropyl myristate	30051502	1
Caesar & Lorenz GmbH	Isopropyl myristate	1905103	1
Caesar & Loretz GmbH ...	Isopropyl myristate	21003927003	1
Caesar & Loretz GmbH/ A...	Isopropyl myristate	18130808	1
Caesar & Loretz GmbH/ G...	Isopropyl myristate	22000431004	1
Caesar & Loretz GmbH/ S...	Isopropyl myristate	21003927005	1
Caesar & Loretz GmbH/An...	Isopropyl myristate	18130808	1
Caesar & Loretz GmbH/Kr...	Isopropyl myristate	18130808	1
Caesar & Loretz GmbH/Sa...	Isopropyl myristate	19059103	1
Caesar & Loretz GmbH/Sa...	Isopropyl myristate	192333005	1
Caesar & Loretz GmbH/Sa...	Isopropyl myristate	192333008	1
Caesar & Loretz GmbH/Sa...	Isopropyl myristate	21003927003	1
Caesar & Loretz GmbH	Isopropyl myristate	13019902	1
Caesar & Loretz GmbH	Isopropyl myristate	18130801	1
Caesar & Loretz GmbH	Isopropyl myristate	18130803	2
Caesar & Loretz GmbH	Isopropyl myristate	18130808	1
Caesar & Loretz GmbH	Isopropyl myristate	19059103	5
Caesar & Loretz GmbH	Isopropyl myristate	19059104	1
Caesar & Loretz GmbH	Isopropyl myristate	19059108	3
Caesar & Loretz GmbH	Isopropyl myristate	192333004	6
Caesar & Loretz GmbH	Isopropyl myristate	192333007	1
Caesar & Loretz GmbH	Isopropyl myristate	192333008	2
Caesar & Loretz GmbH	Isopropyl myristate	20001753001	2
Caesar & Loretz GmbH	Isopropyl myristate	20001753006	5
Caesar & Loretz GmbH	Isopropyl myristate	20004098003	1
Caesar & Loretz GmbH	Isopropyl myristate	20004098007	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Isopropyl myristate	22000431004	2
Caesar und Loretz GmbH	Isopropyl myristate	18130801	3
Caesar&Loretz GmbH D-40...	Isopropyl myristate	1201008-01	1
Caleo/Phoenix	Isopropyl myristate	22000431004	1
Cesar&Loretz GmbH Fiebig	Isopropyl myristate	192333008	1
Ebert & Jacobi	Isopropyl myristate	1801035-01	1
EuRho/Phönix	Isopropyl myristate	1212031-01	1
EuRho/Phönix	Isopropyl myristate	1407015-03	1
EuRho/Sanacorp	Isopropyl myristate	2008023-01	1
EuRho	Isopropyl myristate	1106026-01	1
EuRho	Isopropyl myristate	1201008-01	1
EuRho	Isopropyl myristate	12100801	1
EuRho	Isopropyl myristate	1303034-01	1
EuRho	Isopropyl myristate	1407015-02	1
Euro OCT / Sanacorp	Isopropyl myristate	71142935	1
Euro OTC	Isopropyl myristate	1106026-01	1
Euro OTC	Isopropyl myristate	120100801	2
Euro OTC	Isopropyl myristate	1201008-01	3
Euro OTC	Isopropyl myristate	1212031-01	4
Euro OTC	Isopropyl myristate	130133402	1
Euro OTC	Isopropyl myristate	1303034	1
Euro OTC	Isopropyl myristate	1303034-01	6
Euro OTC	Isopropyl myristate	1303034-02	20
Euro OTC	Isopropyl myristate	130303403	1
Euro OTC	Isopropyl myristate	1303034-03	10
Euro OTC	Isopropyl myristate	1407015	1
Euro OTC	Isopropyl myristate	1407015_03	1
Euro OTC	Isopropyl myristate	1407015-01	6
Euro OTC	Isopropyl myristate	1407015-02	4
Euro OTC	Isopropyl myristate	140701503	2
Euro OTC	Isopropyl myristate	1407015-03	14
Euro OTC	Isopropyl myristate	1508035	2
Euro OTC	Isopropyl myristate	1508035-01	23
Euro OTC	Isopropyl myristate	1508035-02	13
Euro OTC	Isopropyl myristate	1508035-1	1
Euro OTC	Isopropyl myristate	159600	1
Euro OTC	Isopropyl myristate	1608039	1
Euro OTC	Isopropyl myristate	160803901	2
Euro OTC	Isopropyl myristate	1608039-01	35
Euro OTC	Isopropyl myristate	160803902	1
Euro OTC	Isopropyl myristate	1608039-02	18
Euro OTC	Isopropyl myristate	1608039-1	1
Euro OTC	Isopropyl myristate	160839-02	1
Euro OTC	Isopropyl myristate	1801035	1
Euro OTC	Isopropyl myristate	180103501	2
Euro OTC	Isopropyl myristate	1801035-01	49
Euro OTC	Isopropyl myristate	180135-01	1
Euro OTC	Isopropyl myristate	181035-01	1
Euro OTC	Isopropyl myristate	18130803	1
Euro OTC	Isopropyl myristate	200802301	1
Euro OTC	Isopropyl myristate	2008023-01	7
Euro OTC	Isopropyl myristate	22842004	1
Euro OTC	Isopropyl myristate	3515Q-02898	1
Euro OTC	Isopropyl myristate	41140874	1
Euro OTC	Isopropyl myristate	4816Q-02898	1
Euro OTC	Isopropyl myristate	5217M-02898	1
Euro OTC	Isopropyl myristate	71142935	5
Euro OTC	Isopropyl myristate	71145935	1
Euro OTG	Isopropyl myristate	1303034-02	1
Euro/ Sanacorp	Isopropyl myristate	1303034-02	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro/ Sanacorp	Isopropyl myristate	1407015-01	1
Euro/Phönix	Isopropyl myristate	1303034-01	1
Euro/Phönix	Isopropyl myristate	1508035	1
Euroo/Phoenix	Isopropyl myristate	1303034-03	1
Fagron	Isopropyl myristate	13A17-B03-295774	2
Fagron	Isopropyl myristate	16B09-B03	1
Fiebig ek: 3,00EUR 31.08.12	Isopropyl myristate	1201008-01	1
GEHE 26.11.2014	Isopropyl myristate	1303034-03	1
Gehe	Isopropyl myristate	1303034-03	1
Gehe	Isopropyl myristate	140701502	1
Gehe	Isopropyl myristate	15035906	1
Gehe	Isopropyl myristate	15438215	1
Gehe	Isopropyl myristate	17359501	1
Kehr	Isopropyl myristate	19059108	1
Kögl	Isopropyl myristate	12402172817	1
Kögl	Isopropyl myristate	1800589	1
Kögl	Isopropyl myristate	388310152916	1
Nachtestung-Verlängerung	Isopropyl myristate	349/18	1
Noweda	Isopropyl myristate	12171511	1
Noweda	Isopropyl myristate	1407015-01	1
Noweda	Isopropyl myristate	1801035-01	1
Noweda	Isopropyl myristate	192333008	1
Phoenix	Isopropyl myristate	1407015-03	2
Phoenix	Isopropyl myristate	1608039-02	1
Phoenix	Isopropyl myristate	18130801	1
Phoenix	Isopropyl myristate	18130803	1
Phoenix	Isopropyl myristate	20001753001	1
Phönix, 18.07.2013	Isopropyl myristate	130303401	1
Phönix	Isopropyl myristate	12171522	1
Phönix	Isopropyl myristate	13019910	1
Phönix	Isopropyl myristate	1608039-01	1
Phönix	Isopropyl myristate	1801035-01	1
Phönix	Isopropyl myristate	20001753001	1
sanacorb	Isopropyl myristate	180103501	1
Sanacorp/EuRho	Isopropyl myristate	1608039-02	1
Sanacorp/EuRho	Isopropyl myristate	71142935	1
Sanacorp	Isopropyl myristate	12171511	1
Sanacorp	Isopropyl myristate	18130801	1
Wolf-Apotheke	Isopropyl myristate	1508035-02	1

- 296 838 spectra from 1324 *Apo-Ident* customers from a total of 52 874 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Isopropyl myristate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Isopropyl myristate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	320	0	68 179
Type B	0	200	0	111 113
Type C	0	613	7	296 838

The substance/substance group *Isopropyl myristate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.1250 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 97.0000 %)
Type C	100.0000 % (> 99.6875 %)	98.8710 % (> 98.3871 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Isopropyl myristate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Isopropyl palmitate	12.94	–
Metronidazole 25% in white petrolatum	22.94	–
Wool fat	27.59	–
Shea butter, refined	29.17	–
Triglycerides, medium-chain	32.93	–
Camphor ointment	33.97	–
Pasta Cordes®	34.75	–
Laurel oil	40.92	–
Softisan® 378	44.97	–
Permethrin 25% solution	45.76	–
Squalane	49.40	–
2-ethylhexyl laurate	52.72	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Isopropyl myristate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30977	30977	0.00	29.80
31363	31363	0.00	22.29
31530	31774	1.43	25.55
31774	31774	0.00	24.13
34726	34726	0.00	25.11
35081	35081	0.00	26.52

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Isopropyl palmitate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30868-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Isopropyl palmitate; Isopropylis palmitas

Special notes

When selecting the *Isopropyl palmitate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Isopropyl palmitate	6	4	123

Second-stage model

For differentiation of the substance/substance group *Isopropyl palmitate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Isopropyl palmitate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Isopropyl palmit...	284060	31268	40	20131119
Bombastus	Isopropyl palmit...	306390	32995	40	20161219
Bombastus	Isopropyl palmit...	306390	33040	40	20161219
Bombastus	Isopropyl palmit...	19006540	35289	40	20191218
Caelo	Isopropyl palmit...	12229109	30868	40	20120807
Caelo	Isopropyl palmit...	14034806	31364	40	AR-15-FG-000372-01
Caelo	Isopropyl palmit...	20002049	35453	40	20200914*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 280 spectra of 7 reference samples from the substance/substance group *Isopropyl palmitate*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 219 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Isopropyl palmitate*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Isopropyl palmitate	22001263	36214	40
Caelo	Isopropyl palmitate	16091706	32570	40
Caelo	Isopropyl palmitate	180672	34079	40
Caelo	Isopropyl palmitate	192499	34727	40

- 111 153 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 888 spectra from 465 *Apo-Ident* customers from 130 batches from the substance/substance group *Isopropyl palmitate*.

- Among them are spectra of independent samples from 123 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Isopropyl palmitate	14034801	1
AHD	Isopropyl palmitate	288083	1
Allianz	Isopropyl palmitate	18067201	1
Anzag 09.01.19	Isopropyl palmitate	18004344	1
Anzag	Isopropyl palmitate	16333401	1
Anzag	Isopropyl palmitate	277740Bombastus	1
apomix	Isopropyl palmitate	20000637	1
Audor Pharma	Isopropyl palmitate	15169701	1
Audor Pharma	Isopropyl palmitate	285604	1
Bambastus	Isopropyl palmitate	307838	1
Bambastus-Werke AG/Phönix	Isopropyl palmitate	20001459	1
Bionorica/Kehr	Isopropyl palmitate	17000844	1
Bomastus/Noweda	Isopropyl palmitate	19003913	1
Bomb/Gehe	Isopropyl palmitate	299989	1
bomb	Isopropyl palmitate	18001978	1
Bombas über Sanacorp	Isopropyl palmitate	290363	1
BOMBAST/GEHE	Isopropyl palmitate	21002502	1
bombast/Px	Isopropyl palmitate	293140	1
bombasts/ Po	Isopropyl palmitate	18001978	1
Bombastus	Isopropyl palmitate		1
Bombastus	Isopropyl palmitate	108611	2
Bombastus	Isopropyl palmitate	1317001786	1
Bombastus	Isopropyl palmitate	17000844	11
Bombastus	Isopropyl palmitate	17001786	17
Bombastus	Isopropyl palmitate	170612183	1
Bombastus	Isopropyl palmitate	170703IP/306390	1
Bombastus	Isopropyl palmitate	18001978	11
Bombastus	Isopropyl palmitate	18003207	10
Bombastus	Isopropyl palmitate	18004344	12

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Isopropyl palmitate	18005839	3
Bombastus	Isopropyl palmitate	190005596	1
Bombastus	Isopropyl palmitate	19000596	12
Bombastus	Isopropyl palmitate	19002375	13
Bombastus	Isopropyl palmitate	19003913	13
Bombastus	Isopropyl palmitate	19003919	1
Bombastus	Isopropyl palmitate	19006540	9
Bombastus	Isopropyl palmitate	20000637	17
Bombastus	Isopropyl palmitate	20001459	13
Bombastus	Isopropyl palmitate	20002134	21
Bombastus	Isopropyl palmitate	2001459	1
Bombastus	Isopropyl palmitate	200201459	1
Bombastus	Isopropyl palmitate	21002502	9
Bombastus	Isopropyl palmitate	21004166	10
Bombastus	Isopropyl palmitate	218U-02899	1
Bombastus	Isopropyl palmitate	22001263	1
Bombastus	Isopropyl palmitate	26041301	1
Bombastus	Isopropyl palmitate	262190	1
Bombastus	Isopropyl palmitate	266038	3
Bombastus	Isopropyl palmitate	269359	2
Bombastus	Isopropyl palmitate	271265	2
Bombastus	Isopropyl palmitate	272307	3
Bombastus	Isopropyl palmitate	273823	2
Bombastus	Isopropyl palmitate	275014	6
Bombastus	Isopropyl palmitate	276178	1
Bombastus	Isopropyl palmitate	277740	3
Bombastus	Isopropyl palmitate	279468	4
Bombastus	Isopropyl palmitate	281057	8
Bombastus	Isopropyl palmitate	281766	6
Bombastus	Isopropyl palmitate	284060	7
Bombastus	Isopropyl palmitate	285604	6
Bombastus	Isopropyl palmitate	288083	9
Bombastus	Isopropyl palmitate	290363	4
Bombastus	Isopropyl palmitate	291043	10
Bombastus	Isopropyl palmitate	293140	22
Bombastus	Isopropyl palmitate	293410	1
Bombastus	Isopropyl palmitate	297284	19
Bombastus	Isopropyl palmitate	299989	14
Bombastus	Isopropyl palmitate	3015I-02899	1
Bombastus	Isopropyl palmitate	302669	25
Bombastus	Isopropyl palmitate	306390	7
Bombastus	Isopropyl palmitate	307838	19
Bombastus	Isopropyl palmitate	309754	7
Bombastus	Isopropyl palmitate	4082928	1
Bombastus	Isopropyl palmitate	4613Q-02899	1
Bombastus	Isopropyl palmitate	4816Q-02899	1
Bombastus	Isopropyl palmitate	5218Q-02899	1
Bombastus	Isopropyl palmitate	60092401	3
Bombastus	Isopropyl palmitate	60092402	1
Bombastus	Isopropyl palmitate	9082013B	1
Bombstus	Isopropyl palmitate	306390	1
Brückenapotheke	Isopropyl palmitate	285604	1
Caelo	Isopropyl palmitate	10071702	1
Caelo	Isopropyl palmitate	11207301	6
Caelo	Isopropyl palmitate	11207309	1
Caelo	Isopropyl palmitate	12014106	2
Caelo	Isopropyl palmitate	12229109	2
Caelo	Isopropyl palmitate	13134903	3
Caelo	Isopropyl palmitate	13134905	3
Caelo	Isopropyl palmitate	13134906	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl palmitate	13134909	1
Caelo	Isopropyl palmitate	14034801	1
Caelo	Isopropyl palmitate	14034806	5
Caelo	Isopropyl palmitate	14034807	7
Caelo	Isopropyl palmitate	14213111	3
Caelo	Isopropyl palmitate	15071303	1
Caelo	Isopropyl palmitate	15128803	10
Caelo	Isopropyl palmitate	15169701	13
Caelo	Isopropyl palmitate	15169702	2
Caelo	Isopropyl palmitate	15169705	2
Caelo	Isopropyl palmitate	1516975	1
Caelo	Isopropyl palmitate	16021504	1
Caelo	Isopropyl palmitate	16071504	1
Caelo	Isopropyl palmitate	16081808	1
Caelo	Isopropyl palmitate	16091701	11
Caelo	Isopropyl palmitate	16091706	14
Caelo	Isopropyl palmitate	16091706/1060217	1
Caelo	Isopropyl palmitate	16091708	1
Caelo	Isopropyl palmitate	16091709	3
Caelo	Isopropyl palmitate	16333401	10
Caelo	Isopropyl palmitate	16333404	14
Caelo	Isopropyl palmitate	1633401	1
Caelo	Isopropyl palmitate	1633404	1
Caelo	Isopropyl palmitate	17001786	1
Caelo	Isopropyl palmitate	17021402	27
Caelo	Isopropyl palmitate	17091205	1
Caelo	Isopropyl palmitate	1721402	1
Caelo	Isopropyl palmitate	17346502	1
Caelo	Isopropyl palmitate	18001978	2
Caelo	Isopropyl palmitate	18003207	1
Caelo	Isopropyl palmitate	18004344	1
Caelo	Isopropyl palmitate	18067201	27
Caelo	Isopropyl palmitate	18067202	1
Caelo	Isopropyl palmitate	18067204	9
Caelo	Isopropyl palmitate	18234501	11
Caelo	Isopropyl palmitate	18234504	16
Caelo	Isopropyl palmitate	18234505	13
Caelo	Isopropyl palmitate	18234508	4
Caelo	Isopropyl palmitate	19003913	2
Caelo	Isopropyl palmitate	192504001	26
Caelo	Isopropyl palmitate	192504001P-200514-2	1
Caelo	Isopropyl palmitate	192504003	19
Caelo	Isopropyl palmitate	192504007	2
Caelo	Isopropyl palmitate	200002049001	2
Caelo	Isopropyl palmitate	20001459	1
Caelo	Isopropyl palmitate	20002049001	8
Caelo	Isopropyl palmitate	20004041001	11
Caelo	Isopropyl palmitate	20210212-1	1
Caelo	Isopropyl palmitate	2081401	1
Caelo	Isopropyl palmitate	21002432002	6
Caelo	Isopropyl palmitate	21003902001	1
Caelo	Isopropyl palmitate	21111820	1
Caelo	Isopropyl palmitate	25031302	1
Caelo	Isopropyl palmitate	26021402	1
Caelo	Isopropyl palmitate	273823	2
Caelo	Isopropyl palmitate	28031801	1
Caelo	Isopropyl palmitate	28111309	1
Caelo	Isopropyl palmitate	281766	2
Caelo	Isopropyl palmitate	291043	1
Caelo	Isopropyl palmitate	293140	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Isopropyl palmitate	297284	1
Caelo	Isopropyl palmitate	302669	1
Caelo	Isopropyl palmitate	306390	1
Caelo	Isopropyl palmitate	307838	3
Caelo	Isopropyl palmitate	3297	1
Caelo	Isopropyl palmitate	4061201	1
Caelo	Isopropyl palmitate	60092401	1
Caelo	Isopropyl palmitate	9061814	1
Caelo	Isopropyl palmitate	9324202	1
Caeol/Phoenix	Isopropyl palmitate	15169701	1
Caeolo/Gehe	Isopropyl palmitate	18067201	1
Caesar & Loretz GmbH / ...	Isopropyl palmitate	18234505	1
Caesar & Loretz GmbH/ G...	Isopropyl palmitate	192504003	1
Caesar & Loretz GmbH/AHD	Isopropyl palmitate	192504003	1
Caesar & Loretz GmbH/Fi...	Isopropyl palmitate	20002049001	1
Caesar & Loretz GmbH/Gehe	Isopropyl palmitate	192504003	1
Caesar & Loretz GmbH/Gehe	Isopropyl palmitate	20004041001	1
Caesar & Loretz GmbH/GEHE	Isopropyl palmitate	21002432002	1
Caesar & Loretz GmbH/Je...	Isopropyl palmitate	20002049001	1
Caesar & Loretz GmbH/Sa...	Isopropyl palmitate	18234505	1
Caesar & Loretz GmbH/Sa...	Isopropyl palmitate	20002049001	1
Caesar & Loretz GmbH	Isopropyl palmitate	18067201	1
Caesar & Loretz GmbH	Isopropyl palmitate	18234501	3
Caesar & Loretz GmbH	Isopropyl palmitate	18234504	2
Caesar & Loretz GmbH	Isopropyl palmitate	18234505	4
Caesar & Loretz GmbH	Isopropyl palmitate	18234508	2
Caesar & Loretz GmbH	Isopropyl palmitate	192504001	2
Caesar & Loretz GmbH	Isopropyl palmitate	192504003	6
Caesar & Loretz GmbH	Isopropyl palmitate	192504007	1
Caesar & Loretz GmbH	Isopropyl palmitate	20002049001	7
Caesar & Loretz GmbH	Isopropyl palmitate	20004041001	3
Caesar & Loretz GmbH	Isopropyl palmitate	21002432002	4
Caesar & Loretz GmbH	Isopropyl palmitate	21003902001	2
Caesar & Loretz	Isopropyl palmitate	16333404	1
Caesar Loretz	Isopropyl palmitate	192504003	1
Caesar/Noweda	Isopropyl palmitate	16091701	1
Caleo/ Noweda	Isopropyl palmitate	192504003	1
Ceaelo/Sanacorp	Isopropyl palmitate	192504001	1
Cealo / Otto Geilenkirc...	Isopropyl palmitate	192504001	1
Delta	Isopropyl palmitate	307838	1
Euro OTC	Isopropyl palmitate		1
Euro OTC	Isopropyl palmitate	299989	2
Fagron	Isopropyl palmitate	293140	1
Fagron	Isopropyl palmitate	9G14-M08	1
Fiebig 21.08.13 EK5,60	Isopropyl palmitate	13134903	1
Fiebig	Isopropyl palmitate	192504003	1
Gehe	Isopropyl palmitate	12229112	1
Gehe	Isopropyl palmitate	134178	1
Gehe	Isopropyl palmitate	15128803	1
Gehe	Isopropyl palmitate	16091701	1
Gehe	Isopropyl palmitate	16091706	1
Gehe	Isopropyl palmitate	17021402	1
Gehe	Isopropyl palmitate	18001978	1
GEHE	Isopropyl palmitate	18067201	1
gehe	Isopropyl palmitate	192504003	1
Gehe	Isopropyl palmitate	21002502	1
Gehe	Isopropyl palmitate	21004166	1
GEHE	Isopropyl palmitate	269359	1
Gehe	Isopropyl palmitate	290363	1
GUMO	Isopropyl palmitate	192504001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gutenberg-Apotheke	Isopropyl palmitate	285604	1
Hedinger	Isopropyl palmitate	271265	1
Ichthyol-Gesellschaft	Isopropyl palmitate	299989	1
Lamotte/ Phönix	Isopropyl palmitate	302669	1
Nachtestung-Verlängerung	Isopropyl palmitate	240/17	1
Noweda	Isopropyl palmitate	13134906	1
Noweda	Isopropyl palmitate	14213111	1
Noweda	Isopropyl palmitate	16333404	1
Noweda	Isopropyl palmitate	17000844	1
Noweda	Isopropyl palmitate	18003207	2
Noweda	Isopropyl palmitate	18067201	1
Noweda	Isopropyl palmitate	19000596	1
Noweda	Isopropyl palmitate	19003913	1
Noweda	Isopropyl palmitate	19006540	2
Noweda	Isopropyl palmitate	192504001	1
Noweda	Isopropyl palmitate	192504003	1
Noweda	Isopropyl palmitate	20002134	2
Noweda	Isopropyl palmitate	307838	1
Noweda	Isopropyl palmitate	309754	1
Phoenix	Isopropyl palmitate	16333401	1
Phoenix	Isopropyl palmitate	18067201	1
Phoenix	Isopropyl palmitate	18234504	1
Phoenix	Isopropyl palmitate	19000596	1
Phoenix	Isopropyl palmitate	192504003	1
Phoenix	Isopropyl palmitate	22000043	1
Phoenix	Isopropyl palmitate	281766	1
Phönix	Isopropyl palmitate	16333401	1
Phönix	Isopropyl palmitate	16333404	1
Phonix	Isopropyl palmitate	17001786	1
Phönix	Isopropyl palmitate	18067201	1
Phönix	Isopropyl palmitate	19000596	1
Phönix	Isopropyl palmitate	19003913	1
phönix	Isopropyl palmitate	299989	1
Phönix	Isopropyl palmitate	309754	1
Sanacorp, 4,85EUR, 14.1.17	Isopropyl palmitate	302669	1
Sanacorp	Isopropyl palmitate	14034807	1
Sanacorp	Isopropyl palmitate	15128803	1
Sanacorp	Isopropyl palmitate	16091701	2
Sanacorp	Isopropyl palmitate	17021402	1
Sanacorp	Isopropyl palmitate	18005839	1
Sanacorp	Isopropyl palmitate	18067201	1
Sanacorp	Isopropyl palmitate	192504001	1
Sanacorp	Isopropyl palmitate	21003902001	1
Sanacorp	Isopropyl palmitate	21004166	1
Sanacorp	Isopropyl palmitate	273823	1
Sanacorp	Isopropyl palmitate	290363	1
VDL;4,53EUR;23.06.15	Isopropyl palmitate	29314	1

- 296 570 spectra from 1324 *Apo-Ident* customers from a total of 52 860 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Isopropyl palmitate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose,

all relevant spectra of the various substances were compared with *Isopropyl palmitate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	280	0	68 219
Type B	0	160	0	111 153
Type C	0	886	2	296 570

The substance/substance group *Isopropyl palmitate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.8571 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6875 %)	99.7748 % (> 99.4369 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Isopropyl palmitate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Isopropyl myristate	13.79	–
Metronidazole 25% in white petrolatum	15.59	–
Wool fat	20.20	–
Shea butter, refined	20.91	–
Pasta Cordes®	24.59	–
Softisan® 378	26.78	–
Laurel oil	27.77	–
Permethrin 25% solution	37.00	–
Camphor ointment	37.83	–
Triglycerides, medium-chain	38.69	–
Paraffin, yellow	41.70	–
Emulsifying hydrophobic base gel DAC	42.53	–
Peanut oil, refined	45.46	–
Paraffin, white	47.83	–
Olive oil, native	47.87	–
Wool alcohol ointment DAB	47.96	–
Squalane	48.24	–
Hydrophilic ointment DAB	48.96	–
Paraffin, light liquid	49.29	–
Avocado oil, refined	50.83	–

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Isopropyl palmitate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30868	35453	4.10	15.59
31268	31364	2.72	17.31
31364	31364	0.00	18.00
32995	35453	11.83	23.69
33040	35453	10.09	22.18
35289	35453	1.38	17.86
35453	35453	0.00	17.47

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Juniper oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30711-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Juniper oil; Juniperi aetheroleum

Special notes

When selecting the *Juniper oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Juniper oil	6	2	17

Second-stage model

For differentiation of the substance/substance group *Juniper oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Juniper oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Juniper oil	11379007	30711	40	1404599
Caelo	Juniper oil	13240811	31665	60	20130726
Caelo	Juniper oil	16160703	32918	40	1708747
Caelo	Juniper oil	171597	33311	40	20170601*
Caelo	Juniper oil	192077	34618	40	20190801*
Caelo	Juniper oil	20003890014	36479	40	20201124

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 260 spectra of 6 reference samples from the substance/substance group *Juniper oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 239 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 50 spectra of 2 reference samples from the substance/substance group *Juniper oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Juniper oil	13240807	31244	10
Caelo	Juniper oil	15185205	32352	40

- 111 263 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 32 spectra from 24 *Apo-Ident* customers from 18 batches from the substance/substance group *Juniper oil*.
- Among them are spectra of independent samples from 17 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Juniper oil	111275	1
Caelo	Juniper oil	11379003	1
Caelo	Juniper oil	11379006	1
Caelo	Juniper oil	11379007	1
Caelo	Juniper oil	11379012	2
Caelo	Juniper oil	12322707	1
Caelo	Juniper oil	13240802	3
Caelo	Juniper oil	14115802	3
Caelo	Juniper oil	15141302	1
Caelo	Juniper oil	15185205	1
Caelo	Juniper oil	16160702	1
Caelo	Juniper oil	18056101	6
Caelo	Juniper oil	18121306	1
Caelo	Juniper oil	18208815	1
Caelo	Juniper oil	19207701	1
Caelo	Juniper oil	19207702	1
Caesar & Loretz GmbH/AHD	Juniper oil	19207701	1
Caesar & Loretz GmbH/Sa...	Juniper oil	192077005	1
Caesar & Loretz GmbH	Juniper oil	19207701	1
Kögl	Juniper oil	104204171714	1
Sanacorp	Juniper oil	11379012	1
VDL;15.05.15;9,95EUR	Juniper oil	14115802	1

- 297 426 spectra from 1324 *Apo-Ident* customers from a total of 52 969 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Juniper oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Juniper oil* and it was evaluated how

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive/negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	260	0	68 239
Type B	0	48	2	111 263
Type C	0	31	1	297 426

The substance/substance group *Juniper oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.6923 %)
Type B	100.0000 % (> 99.9679 %)	96.0000 % (> 90.0000 %)
Type C	100.0000 % (> 99.6877 %)	96.8750 % (> 87.5000 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Juniper oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dwarf pine oil	14.60	–
Cypress oil	25.53	–
Cedar wood oil	26.87	–
Bergamot oil	28.65	–
Spearmint oil	29.53	–
Acorus oil	32.28	–
Pine silvestris oil	32.37	–
Angelica root oil	32.45	–
Caraway oil	33.13	–
Bitter orange oil	38.52	–
Peppermint oil	40.08	–
Citric oil	41.12	–
Verbena oil, nature-identical	42.11	–
Grapefruit oil	46.13	–
Turpentine oil	47.52	–
Eucalyptus oil	47.83	–
Myrtle oil	48.25	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Juniper oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30711	30711	0.00	28.89
31665	30711	16.57	25.53
32918	32918	0.00	32.45
33311	33311	0.00	25.48
34618	34618	0.00	27.27
36479	33311	7.91	24.89

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Lanette® ointment (conserved)**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30499-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Lanette® ointment (conserved); Unguentum Lanette®

Special notes

When selecting the *Lanette® ointment (conserved)* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Lanette® ointment (conserved)	13	19	165

Second-stage model

For differentiation of the substance/substance group *Lanette® ointment (conserved)* the following second-stage model is used:

- Submodel 06

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Lanette® ointment (conserved)*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Lanette® ointmen...	13257301	31166	37	1402587
Caelo	Lanette® ointmen...	13257301	31225	40	1403113
Caelo	Lanette® ointmen...	13393001	31454	40	20131206
Caelo	Lanette® ointmen...	153481	31913	60	20151111*
Caelo	Lanette® ointmen...	153482	31914	60	20151111*
Caelo	Lanette® ointmen...	153483	31915	60	20151111*
Caelo	Lanette® ointmen...	160894	32093	40	20160318*
Caelo	Lanette® ointmen...	162580	32500	40	20160920*
Caelo	Lanette® ointmen...	162580	32501	40	20160920*
Caelo	Lanette® ointmen...	162581	32502	40	20160920*
Caelo	Lanette® ointmen...	162581	32503	40	20160920*
Caelo	Lanette® ointmen...	190107	34540	20	20190128*
Caelo	Lanette® ointmen...	190508	34541	40	20190319*
Caelo	Lanette® ointmen...	20003378	35220	40	20201113*
Caelo	Lanette® ointmen...	21003909	35914	40	20211214*
Caelo	Lanette® ointmen...	21004144	35915	40	20220118*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 677 spectra of 16 reference samples from the substance/substance group *Lanette® ointment (conserved)*. These samples are listed above in the *calibration samples* section. The reference samples come from 13 different batches.

- 67 822 spectra from a total of 1400 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Type B spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 813 spectra of 22 reference samples from the substance/substance group *Lanette® ointment (conserved)*.
- Among them are spectra of independent samples from 19 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Lanette® ointment (conserved)	162582	32504	40
Caelo	Lanette® ointment (conserved)	170567	33144	40
Caelo	Lanette® ointment (conserved)	170415	33145	40
Caelo	Lanette® ointment (conserved)	172430	33752	40
Caelo	Lanette® ointment (conserved)	172431	33753	40
Caelo	Lanette® ointment (conserved)	173110	34008	40
Caelo	Lanette® ointment (conserved)	180232	34196	40
Caelo	Lanette® ointment (conserved)	180870	34197	40
Caelo	Lanette® ointment (conserved)	181184	34198	40
Caelo	Lanette® ointment (conserved)	182334	34263	40
Caelo	Lanette® ointment (conserved)	20002187	35102	40
Caelo	Lanette® ointment (conserved)	20003101	35168	40
Caelo	Lanette® ointment (conserved)	21001236	35340	40
Caelo	Lanette® ointment (conserved)	21001789	35525	50
Caelo	Lanette® ointment (conserved)	21002597	35651	40
Caelo	Lanette® ointment (conserved)	21002676	35652	50
Caelo	Lanette® ointment (conserved)	21004145	35916	10
Caelo	Lanette® ointment (conserved)	22001402	36330	40
Caelo	Lanette® ointment (conserved)	22001403	36331	40
Caelo	Lanette® ointment (conserved)	13257301	31166†	3
Caelo	Lanette® ointment (conserved)	162582	32505	40
Caelo	Lanette® ointment (conserved)	190107	34540†	20

- 110 500 spectra from a total of 2645 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1252 spectra from 325 *Apo-Ident* customers from 169 batches from the substance/substance group *Lanette® ointment (conserved)*.
- Among them are spectra of independent samples from 165 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

†These spectra were recorded from material of the same package as the corresponding calibration spectra (*Type A*). Hence, these spectra are not independent and are not of *Type B*.

Supplier	Substance	Batch	Spectra
AHD	Lanette® ointment (conserved)	14089801	1
Alliance H.	Lanette® ointment (conserved)	19050802	1
Alliance	Lanette® ointment (conserved)	13046701	1
Allianz Healthcare	Lanette® ointment (conserved)	19144301	1
Anzah / Henry lammotte	Lanette® ointment (conserved)	13257501	1
Bombastus	Lanette® ointment (conserved)	16258001	1
Bufa/Noweda	Lanette® ointment (conserved)	19266903	1
Caelo	Lanette® ointment (conserved)		1
Caelo	Lanette® ointment (conserved)	117311002	1
Caelo	Lanette® ointment (conserved)	12081301	5
Caelo	Lanette® ointment (conserved)	12170301	1
Caelo	Lanette® ointment (conserved)	12223701	4
Caelo	Lanette® ointment (conserved)	1222380	1
Caelo	Lanette® ointment (conserved)	12223801	6
Caelo	Lanette® ointment (conserved)	12312101	1
Caelo	Lanette® ointment (conserved)	12312901	1
Caelo	Lanette® ointment (conserved)	12313001	3
Caelo	Lanette® ointment (conserved)	1231302	1
Caelo	Lanette® ointment (conserved)	12313101	7
Caelo	Lanette® ointment (conserved)	12313102	2
Caelo	Lanette® ointment (conserved)	130456601	1
Caelo	Lanette® ointment (conserved)	13046501	2
Caelo	Lanette® ointment (conserved)	13046601	5
Caelo	Lanette® ointment (conserved)	13046701	15
Caelo	Lanette® ointment (conserved)	13046802	4
Caelo	Lanette® ointment (conserved)	13177301	3
Caelo	Lanette® ointment (conserved)	13177501	11
Caelo	Lanette® ointment (conserved)	13191201	7
Caelo	Lanette® ointment (conserved)	13234007	1
Caelo	Lanette® ointment (conserved)	13257301	12
Caelo	Lanette® ointment (conserved)	13257402	1
Caelo	Lanette® ointment (conserved)	13257501	9
Caelo	Lanette® ointment (conserved)	1339201	1
Caelo	Lanette® ointment (conserved)	13392701	11
Caelo	Lanette® ointment (conserved)	13392901	3
Caelo	Lanette® ointment (conserved)	13393001	17
Caelo	Lanette® ointment (conserved)	1391201	1
Caelo	Lanette® ointment (conserved)	14089501	6
Caelo	Lanette® ointment (conserved)	14089601	5
Caelo	Lanette® ointment (conserved)	14089801	14
Caelo	Lanette® ointment (conserved)	14200601	8
Caelo	Lanette® ointment (conserved)	1420061	1
Caelo	Lanette® ointment (conserved)	14221601	2
Caelo	Lanette® ointment (conserved)	14277101	3
Caelo	Lanette® ointment (conserved)	14277201	3
Caelo	Lanette® ointment (conserved)	14277301	5
Caelo	Lanette® ointment (conserved)	14277401	20
Caelo	Lanette® ointment (conserved)	15048801	1
Caelo	Lanette® ointment (conserved)	15048901	17
Caelo	Lanette® ointment (conserved)	15049001	12
Caelo	Lanette® ointment (conserved)	15095902	3
Caelo	Lanette® ointment (conserved)	15211102	1
Caelo	Lanette® ointment (conserved)	15211201	11
Caelo	Lanette® ointment (conserved)	152113001	1
Caelo	Lanette® ointment (conserved)	15211301	22
Caelo	Lanette® ointment (conserved)	15211401	3
Caelo	Lanette® ointment (conserved)	152114021	1
Caelo	Lanette® ointment (conserved)	15258001	1
Caelo	Lanette® ointment (conserved)	15348201	9
Caelo	Lanette® ointment (conserved)	15348202	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lanette® ointment (conserved)	15348301	17
Caelo	Lanette® ointment (conserved)	153483301	1
Caelo	Lanette® ointment (conserved)	16071402	1
Caelo	Lanette® ointment (conserved)	160817UL	1
Caelo	Lanette® ointment (conserved)	16089401	51
Caelo	Lanette® ointment (conserved)	16089402	23
Caelo	Lanette® ointment (conserved)	16089404	3
Caelo	Lanette® ointment (conserved)	16102013C	1
Caelo	Lanette® ointment (conserved)	161104UL/16188701	1
Caelo	Lanette® ointment (conserved)	16184702	16
Caelo	Lanette® ointment (conserved)	16184703	1
Caelo	Lanette® ointment (conserved)	16188701	2
Caelo	Lanette® ointment (conserved)	16188801	4
Caelo	Lanette® ointment (conserved)	162580	1
Caelo	Lanette® ointment (conserved)	16258001	30
Caelo	Lanette® ointment (conserved)	16258101	13
Caelo	Lanette® ointment (conserved)	16258201	11
Caelo	Lanette® ointment (conserved)	170328UL/16188801	1
Caelo	Lanette® ointment (conserved)	17041501	20
Caelo	Lanette® ointment (conserved)	170530UL/16188801	1
Caelo	Lanette® ointment (conserved)	170710UL/16188801	1
Caelo	Lanette® ointment (conserved)	171107UL/17134001	1
Caelo	Lanette® ointment (conserved)	17133801	11
Caelo	Lanette® ointment (conserved)	17133901	20
Caelo	Lanette® ointment (conserved)	17133902	4
Caelo	Lanette® ointment (conserved)	17134001	7
Caelo	Lanette® ointment (conserved)	17243001	15
Caelo	Lanette® ointment (conserved)	17243102	21
Caelo	Lanette® ointment (conserved)	1731002	1
Caelo	Lanette® ointment (conserved)	17311001	16
Caelo	Lanette® ointment (conserved)	17311002	1
Caelo	Lanette® ointment (conserved)	173111001	1
Caelo	Lanette® ointment (conserved)	17311101	10
Caelo	Lanette® ointment (conserved)	18(18087001)	1
Caelo	Lanette® ointment (conserved)	180102UL/17134001	1
Caelo	Lanette® ointment (conserved)	1802302	1
Caelo	Lanette® ointment (conserved)	18023202	8
Caelo	Lanette® ointment (conserved)	18023301	4
Caelo	Lanette® ointment (conserved)	1807001	1
Caelo	Lanette® ointment (conserved)	180870001	1
Caelo	Lanette® ointment (conserved)	18087001	51
Caelo	Lanette® ointment (conserved)	18087101	2
Caelo	Lanette® ointment (conserved)	1811402	2
Caelo	Lanette® ointment (conserved)	18118401	9
Caelo	Lanette® ointment (conserved)	18118402	15
Caelo	Lanette® ointment (conserved)	18118502	3
Caelo	Lanette® ointment (conserved)	18233402	2
Caelo	Lanette® ointment (conserved)	18233501	26
Caelo	Lanette® ointment (conserved)	18233502	7
Caelo	Lanette® ointment (conserved)	18296701	8
Caelo	Lanette® ointment (conserved)	18302001	15
Caelo	Lanette® ointment (conserved)	19010701	26
Caelo	Lanette® ointment (conserved)	19010702	6
Caelo	Lanette® ointment (conserved)	19050802	5
Caelo	Lanette® ointment (conserved)	19050803	1
Caelo	Lanette® ointment (conserved)	19067003	1
Caelo	Lanette® ointment (conserved)	19082015C	1
Caelo	Lanette® ointment (conserved)	1914401	1
Caelo	Lanette® ointment (conserved)	19144301	26
Caelo	Lanette® ointment (conserved)	19144401	10

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lanette® ointment (conserved)	19144501	7
Caelo	Lanette® ointment (conserved)	19266903	10
Caelo	Lanette® ointment (conserved)	19267003	36
Caelo	Lanette® ointment (conserved)	19267101	4
Caelo	Lanette® ointment (conserved)	200002187001	1
Caelo	Lanette® ointment (conserved)	20000221002	4
Caelo	Lanette® ointment (conserved)	20000702001	10
Caelo	Lanette® ointment (conserved)	20000703001	31
Caelo	Lanette® ointment (conserved)	200021870003	1
Caelo	Lanette® ointment (conserved)	20002187001	7
Caelo	Lanette® ointment (conserved)	20002187003	9
Caelo	Lanette® ointment (conserved)	20002187004	17
Caelo	Lanette® ointment (conserved)	20003378001	4
Caelo	Lanette® ointment (conserved)	20003379001	5
Caelo	Lanette® ointment (conserved)	20003379002	10
Caelo	Lanette® ointment (conserved)	2000703001	1
Caelo	Lanette® ointment (conserved)	20021309	1
Caelo	Lanette® ointment (conserved)	2002187004	3
Caelo	Lanette® ointment (conserved)	2003379001	1
Caelo	Lanette® ointment (conserved)	20092014B	1
Caelo	Lanette® ointment (conserved)	20110712-3	1
Caelo	Lanette® ointment (conserved)	20310812-5	1
Caelo	Lanette® ointment (conserved)	21000607002	12
Caelo	Lanette® ointment (conserved)	21000607004	4
Caelo	Lanette® ointment (conserved)	21000607005	3
Caelo	Lanette® ointment (conserved)	21001236001	3
Caelo	Lanette® ointment (conserved)	21001236002	7
Caelo	Lanette® ointment (conserved)	21001789001	1
Caelo	Lanette® ointment (conserved)	21002597002	2
Caelo	Lanette® ointment (conserved)	21002676002	7
Caelo	Lanette® ointment (conserved)	21004144002	2
Caelo	Lanette® ointment (conserved)	21004145001	2
Caelo	Lanette® ointment (conserved)	211227(21002597002)	1
Caelo	Lanette® ointment (conserved)	2187003	1
Caelo	Lanette® ointment (conserved)	22001403001	1
Caelo	Lanette® ointment (conserved)	2201403001	1
Caelo	Lanette® ointment (conserved)	23(20000702001)	1
Caelo	Lanette® ointment (conserved)	23012015C	1
Caelo	Lanette® ointment (conserved)	24022014C	1
Caelo	Lanette® ointment (conserved)	24062014A	1
Caelo	Lanette® ointment (conserved)	280714B	1
Caelo	Lanette® ointment (conserved)	28111311	1
Caelo	Lanette® ointment (conserved)	309918023301	1
Caelo	Lanette® ointment (conserved)	3515l-03211	1
Caelo	Lanette® ointment (conserved)	40/AKD2	1
Caelo	Lanette® ointment (conserved)	6012014D	1
Caelo	Lanette® ointment (conserved)	613Q-03211	1
Caelo	Lanette® ointment (conserved)	8041502	1
Caelo	Lanette® ointment (conserved)	ChB280916	1
Caelo	Lanette® ointment (conserved)	U-150513-3	1
Caeolo/Sanacorp	Lanette® ointment (conserved)	18118401	1
Caesar & Loretz GmbH / ...	Lanette® ointment (conserved)	15211301	1
Caesar & Loretz GmbH / ...	Lanette® ointment (conserved)	19050802	1
Caesar & Loretz GmbH / ...	Lanette® ointment (conserved)	200003379001	1
Caesar & Loretz GmbH / ...	Lanette® ointment (conserved)	19050802	1
Caesar & Loretz GmbH / ...	Lanette® ointment (conserved)	20000702001	1
Caesar & Loretz GmbH/ N...	Lanette® ointment (conserved)	19267003	1
Caesar & Loretz GmbH/ N...	Lanette® ointment (conserved)	20000703001	1
Caesar & Loretz GmbH/ P...	Lanette® ointment (conserved)	20002187004	1
Caesar & Loretz GmbH/An...	Lanette® ointment (conserved)	19144401	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Geh	Lanette® ointment (conserved)	20000703001	1
Caesar & Loretz GmbH/Gehe	Lanette® ointment (conserved)	19267003	2
Caesar & Loretz GmbH/Gehe	Lanette® ointment (conserved)	20002187004	1
Caesar & Loretz GmbH/Ge...	Lanette® ointment (conserved)	20002187003	1
Caesar & Loretz GmbH/No...	Lanette® ointment (conserved)	19144401	1
Caesar & Loretz GmbH/No...	Lanette® ointment (conserved)	19267003	1
Caesar & Loretz GmbH/Ph...	Lanette® ointment (conserved)	20003379001	1
Caesar & Loretz GmbH/Ph...	Lanette® ointment (conserved)	19010702	1
Caesar & Loretz GmbH/Ph...	Lanette® ointment (conserved)	192669	1
Caesar & Loretz GmbH/Ph...	Lanette® ointment (conserved)	21002597002	1
Caesar & Loretz GmbH/Sa...	Lanette® ointment (conserved)	19266903	3
Caesar & Loretz GmbH/Sa...	Lanette® ointment (conserved)	20000702001	3
Caesar & Loretz GmbH	Lanette® ointment (conserved)	15348201	1
Caesar & Loretz GmbH	Lanette® ointment (conserved)	18087001	1
Caesar & Loretz GmbH	Lanette® ointment (conserved)	18118401	1
Caesar & Loretz GmbH	Lanette® ointment (conserved)	18233501	2
Caesar & Loretz GmbH	Lanette® ointment (conserved)	18296701	1
Caesar & Loretz GmbH	Lanette® ointment (conserved)	18302001	9
Caesar & Loretz GmbH	Lanette® ointment (conserved)	19010701	3
Caesar & Loretz GmbH	Lanette® ointment (conserved)	19010702	1
Caesar & Loretz GmbH	Lanette® ointment (conserved)	19050802	6
Caesar & Loretz GmbH	Lanette® ointment (conserved)	19144301	8
Caesar & Loretz GmbH	Lanette® ointment (conserved)	19144401	5
Caesar & Loretz GmbH	Lanette® ointment (conserved)	19266903	11
Caesar & Loretz GmbH	Lanette® ointment (conserved)	19267003	14
Caesar & Loretz GmbH	Lanette® ointment (conserved)	20000702001	3
Caesar & Loretz GmbH	Lanette® ointment (conserved)	20000703001	8
Caesar & Loretz GmbH	Lanette® ointment (conserved)	20002187001	1
Caesar & Loretz GmbH	Lanette® ointment (conserved)	20002187003	6
Caesar & Loretz GmbH	Lanette® ointment (conserved)	20002187004	6
Caesar & Loretz GmbH	Lanette® ointment (conserved)	20003379002	4
Caesar & Loretz GmbH	Lanette® ointment (conserved)	21000607002	5
Caesar & Loretz GmbH	Lanette® ointment (conserved)	21001236001	2
Caesar & Loretz GmbH	Lanette® ointment (conserved)	21001236002	2
Caesar & Loretz GmbH	Lanette® ointment (conserved)	21001789002	2
Caesar & Loretz GmbH	Lanette® ointment (conserved)	21002597002	2
Caesar & Loretz GmbH	Lanette® ointment (conserved)	21002676002	1
Caesar & Loretz	Lanette® ointment (conserved)	19050802	2
Caesar/Lorenz	Lanette® ointment (conserved)	12313102	1
Caesar/Lorenz	Lanette® ointment (conserved)	13046701	1
Caesar/Lorenz	Lanette® ointment (conserved)	13257301	2
Caesar/Lorenz	Lanette® ointment (conserved)	13257501	1
Cealo/ Noweda	Lanette® ointment (conserved)	19267003	1
Cealo/Phönix	Lanette® ointment (conserved)	18233502	1
Cordes/Anzag	Lanette® ointment (conserved)	17041501	1
Fagron	Lanette® ointment (conserved)	13046601	1
Fagron	Lanette® ointment (conserved)	15348201	1
Fagron	Lanette® ointment (conserved)	18087001	2
GEHE	Lanette® ointment (conserved)	13046701	1
gehe	Lanette® ointment (conserved)	13177501	1
GEHE	Lanette® ointment (conserved)	16184702	1
Gehe	Lanette® ointment (conserved)	16258001	1
GEHE	Lanette® ointment (conserved)	16258101	2
GEHE	Lanette® ointment (conserved)	18023202	1
GEHE	Lanette® ointment (conserved)	9639910	1
Hedinger	Lanette® ointment (conserved)	17133901	1
Henry Lamotte Oils GmbH	Lanette® ointment (conserved)	18087001	1
Jenne	Lanette® ointment (conserved)	19010702	1
L12	Lanette® ointment (conserved)	18087001	1
L30	Lanette® ointment (conserved)	16184702	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
L30	Lanette® ointment (conserved)	17133801	1
Laborchemie/Gehe	Lanette® ointment (conserved)	19144301	2
Noweda	Lanette® ointment (conserved)	20000703001	1
Phoenix	Lanette® ointment (conserved)	14089501	1
Phoenix	Lanette® ointment (conserved)	16089402	2
Phoenix	Lanette® ointment (conserved)	19267003	1
Phoenix	Lanette® ointment (conserved)	20000703001	1
Phoenix	Lanette® ointment (conserved)	21001236002	1
Phönix	Lanette® ointment (conserved)	12223701	1
Phönix	Lanette® ointment (conserved)	17133901	1
Phönix	Lanette® ointment (conserved)	17243102	1
PHÖNIX	Lanette® ointment (conserved)	17311101	1
Phönix	Lanette® ointment (conserved)	19266903	2
Phönix	Lanette® ointment (conserved)	20000703001	1
Phönix	Lanette® ointment (conserved)	20003379002	1
Sanacorp	Lanette® ointment (conserved)	14089801	1
Sanacorp	Lanette® ointment (conserved)	160258001	1
Sanacorp	Lanette® ointment (conserved)	16089401	1
Sanacorp	Lanette® ointment (conserved)	17133901	1
Sanacorp	Lanette® ointment (conserved)	18233501	1
Sanacorp	Lanette® ointment (conserved)	19266903	1
Sanacorp	Lanette® ointment (conserved)	20000702001	2
Sanacorp	Lanette® ointment (conserved)	20000708001	1
Sanacorp	Lanette® ointment (conserved)	20002187001	1
VDL;3,33EUR;22.10.14	Lanette® ointment (conserved)	14089801	2

- 296 206 spectra from 1324 *Apo-Ident* customers from a total of 52 823 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Lanette® ointment (conserved)* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Lanette® ointment (conserved)* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	677	0	67 822
Type B	0	812	1	110 500
Type C	0	1125	127	296 206

The substance/substance group *Lanette® ointment (conserved)* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.1137 %)
Type B	100.0000 % (> 99.9678 %)	99.8770 % (> 99.5080 %)
Type C	100.0000 % (> 99.6875 %)	89.8562 % (> 89.6166 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Lanette® ointment (conserved)* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Anionic hydrophlic cream without prese...	15.26	–
Anionic hydrophilic cream SR (NRF p.27)	15.36	–
Non-ionic hydrophil ointment	15.71	14.63
Wool alcohol cream SR	16.26	16.01
Psorisol base cream Audor®	16.94	–
Anionic hydrophilic cream DAB	17.08	–
Base cream DAC	20.56	26.83
Eucerin® cum Aqua	21.72	30.77
Hydrophilic cream, non-ionic SR (NRF p...	22.88	–
Anionic hydrophilic cream with propyle...	24.95	–
Base cream, hydrophobic DAC	25.08	–
Wool alcohol cream DAB	26.47	27.48
Hydrophilic cream, non-ionic without p...	27.08	–
Skin care ointment W/L SR (without pre...	29.64	–
Transdermal base cream	33.63	–
Skin care ointment W/L SR	34.14	–
Glycolic acid 70%	38.80	–
Potash soap DAC	54.20	–
⋮	⋮	⋮
2-ethylhexyl laurate	>50	197.18
Squalane	>50	248.88

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Lanette® ointment (conserved)* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31166	31166	0.00	36.66
31225	31225	0.00	26.06
31454	31225	2.54	24.14

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31913	31913	0.00	34.50
31914	31914	0.00	29.03
31915	31915	0.00	31.81
32093	32093	0.00	27.77
32500	32500	0.00	26.05
32501	32501	0.00	27.32
32502	32502	0.00	23.54
32503	32503	0.00	24.69
34540	34540	0.00	20.74
34541	34541	0.00	36.26
35220	35220	0.00	26.68
35914	35914	0.00	27.58
35915	35915	0.00	27.59

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Lanolin DAB**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30013-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Lanolin DAB; Lanolinum DAB

Special notes

When selecting the *Lanolin DAB* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Lanolin DAB	12	34	592

Second-stage model

For differentiation of the substance/substance group *Lanolin DAB* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Lanolin DAB*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Lanolin DAB	294969	31795	60	20150611
Bombastus	Lanolin DAB	19001199	34518	40	20190301
Caelo	Lanolin DAB	13062501	31003	40	20130226
Caelo	Lanolin DAB	14032001	31439	40	AR-15-FG-008283-01
Caelo	Lanolin DAB	15255201	31746	60	20150727
Caelo	Lanolin DAB	15405502	31798	60	20151130
Caelo	Lanolin DAB	163026	32863	40	20161028*
Caelo	Lanolin DAB	21000935	35373	40	20210421*
Caelo	Lanolin DAB	21001590	35643	50	20210615*
Fagron	Lanolin DAB	15G02-T11-024155	31794	60	AR-16-FG-004053-01
Fagron	Lanolin DAB	18L18-T08-062838	34597	40	20190227
Henry Lamotte	Lanolin DAB	8005213004	34686	40	20190306

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 570 spectra of 12 reference samples from the substance/substance group *Lanolin DAB*. These samples are listed above in the *calibration samples* section. The reference samples come from 12 different batches.

- 67 929 spectra from a total of 1401 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples:

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 1240 spectra of 34 reference samples from the substance/substance group *Lanolin DAB*.
- Among them are spectra of independent samples from 34 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Lanolin DAB	21004075	36204	40
Caelo	Lanolin DAB	163022	32859	40
Caelo	Lanolin DAB	163023	32860	40
Caelo	Lanolin DAB	163024	32861	40
Caelo	Lanolin DAB	163025	32862	40
Caelo	Lanolin DAB	163444	33181	40
Caelo	Lanolin DAB	170184	33182	40
Caelo	Lanolin DAB	170187	33183	40
Caelo	Lanolin DAB	171351	33370	40
Caelo	Lanolin DAB	171354	33371	40
Caelo	Lanolin DAB	172965	34015	40
Caelo	Lanolin DAB	180443	34151	40
Caelo	Lanolin DAB	182302	34270	40
Caelo	Lanolin DAB	191766	34816	40
Caelo	Lanolin DAB	192252	34817	40
Caelo	Lanolin DAB	20000836	34853	40
Caelo	Lanolin DAB	20003100	35155	40
Caelo	Lanolin DAB	20004309	35370	40
Caelo	Lanolin DAB	20004311	35371	40
Caelo	Lanolin DAB	20004312	35372	40
Caelo	Lanolin DAB	21000936	35374	40
Caelo	Lanolin DAB	21001189	35375	40
Caelo	Lanolin DAB	21002198	35644	50
Caelo	Lanolin DAB	21002199	35645	50
Caelo	Lanolin DAB	21002476	35646	50
Caelo	Lanolin DAB	21003000	35962	40
Caelo	Lanolin DAB	21004178	35963	40
Caelo	Lanolin DAB	21004179	35964	10
Caelo	Lanolin DAB	21004182	35965	10
Caelo	Lanolin DAB	22000106	35966	10
Caelo	Lanolin DAB	22000069	35967	10
Caelo	Lanolin DAB	22001560	36416	40
Caelo	Lanolin DAB	22001559	36417	10
Henry Lamotte	Lanolin DAB	5264900	30922	40

- 110 073 spectra from a total of 2632 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 5867 spectra from 1002 *Apo-Ident* customers from 618 batches from the substance/substance group *Lanolin DAB*.

- Among them are spectra of independent samples from 588 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Lanolin DAB	13H13-T10-006179	1
	Lanolin DAB	309000	1
26.07.2018	Lanolin DAB	17000364	1
4,Caesar & Loretz GmbH	Lanolin DAB	21000936001	1
AEP	Lanolin DAB	20004311001	1
AHD , 05.09.13	Lanolin DAB	274414	1
AHD 14.03.17 Ek:6,91	Lanolin DAB	6003682006	1
AHD 14.5.14, Preis 16,69	Lanolin DAB		1
AHD 27.05.20	Lanolin DAB	19267802	1
AHD henry lamotte 05.04...	Lanolin DAB	8002875002	2
AHD Henry Lamotte 05.10...	Lanolin DAB	8005213004	2
AHD, 08.11.13	Lanolin DAB	280111	1
AHD	Lanolin DAB	16189401	1
AHD	Lanolin DAB	16302501	1
AHD	Lanolin DAB	17222601	1
AHD	Lanolin DAB	19071101	1
AHD	Lanolin DAB	19267802	1
AHD	Lanolin DAB	20004312001	1
AHD	Lanolin DAB	5517200	1
AHDE/Cael030.12.16 EUR5,33	Lanolin DAB	16302401	1
Alliance H.	Lanolin DAB	15405501	1
Alliance health 12.01.15	Lanolin DAB	14A06-T05-0002	1
Alliance Healthcare	Lanolin DAB	13062401	1
Alliance Healthcare	Lanolin DAB	5375500	1
Alliance Healthcare	Lanolin DAB	5447700	3
Alliance	Lanolin DAB	13102802	1
Allianz Healthcare	Lanolin DAB	19176601	1
Allianz Healthcare	Lanolin DAB	19267802	1
Alte Apotheke	Lanolin DAB	16189602	1
ANZAG 01.01.143	Lanolin DAB	14a06-t01-009011	1
Anzag 10.04.13	Lanolin DAB	5264900	1
Anzag/	Lanolin DAB	12193901	1
Anzag/Henry Lamotte	Lanolin DAB	5264900	1
Anzag	Lanolin DAB	11315101	1
anzag	Lanolin DAB	15255301	1
Anzag	Lanolin DAB	15405501	1
Anzag	Lanolin DAB	16189501	1
Anzag	Lanolin DAB	17222401	1
Anzag	Lanolin DAB	17A03-T02-040001	1
Anzag	Lanolin DAB	19H12-T03-070772	1
Anzag	Lanolin DAB	19J09-T09-072602	1
Anzag	Lanolin DAB	5264900	1
api-ident	Lanolin DAB	17296501	1
Bom	Lanolin DAB	18005862	2
Bombasatus	Lanolin DAB	288635	1
Bombastus	Lanolin DAB	124967	1
Bombastus	Lanolin DAB	13173601	1
Bombastus	Lanolin DAB	14032101	1
Bombastus	Lanolin DAB	14166001	1
Bombastus	Lanolin DAB	16189501	1
Bombastus	Lanolin DAB	163023	1
Bombastus	Lanolin DAB	16302401	1
Bombastus	Lanolin DAB	1700000363	1
Bombastus	Lanolin DAB	17000363	1
Bombastus	Lanolin DAB	17000364	10
Bombastus	Lanolin DAB	17000425	1
Bombastus	Lanolin DAB	17001446	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Lanolin DAB	17001447	12
Bombastus	Lanolin DAB	17018401	1
Bombastus	Lanolin DAB	17222601	1
Bombastus	Lanolin DAB	18001869	1
Bombastus	Lanolin DAB	18001870	11
Bombastus	Lanolin DAB	18003633	1
Bombastus	Lanolin DAB	18003634	1
Bombastus	Lanolin DAB	18003635	5
Bombastus	Lanolin DAB	18005860	1
Bombastus	Lanolin DAB	18005862	6
Bombastus	Lanolin DAB	18D11-T03-054713	1
Bombastus	Lanolin DAB	19000702	1
Bombastus	Lanolin DAB	19001199	9
Bombastus	Lanolin DAB	19002572	10
Bombastus	Lanolin DAB	19005480	11
Bombastus	Lanolin DAB	200000047	1
Bombastus	Lanolin DAB	20000047	15
Bombastus	Lanolin DAB	20001455	5
Bombastus	Lanolin DAB	20003460	4
Bombastus	Lanolin DAB	20004373	6
Bombastus	Lanolin DAB	21001410	3
Bombastus	Lanolin DAB	264721	1
Bombastus	Lanolin DAB	264723	1
Bombastus	Lanolin DAB	266981	1
Bombastus	Lanolin DAB	270439	1
Bombastus	Lanolin DAB	270443	1
Bombastus	Lanolin DAB	274412	1
Bombastus	Lanolin DAB	274413	1
Bombastus	Lanolin DAB	274414	1
Bombastus	Lanolin DAB	276824	1
Bombastus	Lanolin DAB	277967	2
Bombastus	Lanolin DAB	277968	1
Bombastus	Lanolin DAB	277969	1
Bombastus	Lanolin DAB	277970	4
Bombastus	Lanolin DAB	280111	3
Bombastus	Lanolin DAB	282979	2
Bombastus	Lanolin DAB	285096	2
Bombastus	Lanolin DAB	285097	4
Bombastus	Lanolin DAB	286688	1
Bombastus	Lanolin DAB	286690	1
Bombastus	Lanolin DAB	286691	2
Bombastus	Lanolin DAB	288636	2
Bombastus	Lanolin DAB	288637	5
Bombastus	Lanolin DAB	290885	4
Bombastus	Lanolin DAB	292904	1
Bombastus	Lanolin DAB	292905	1
Bombastus	Lanolin DAB	292906	5
Bombastus	Lanolin DAB	294967	2
Bombastus	Lanolin DAB	294968	1
Bombastus	Lanolin DAB	297583	7
Bombastus	Lanolin DAB	299082	5
Bombastus	Lanolin DAB	300144	2
Bombastus	Lanolin DAB	301169	2
Bombastus	Lanolin DAB	301170	5
Bombastus	Lanolin DAB	302807	1
Bombastus	Lanolin DAB	302808	2
Bombastus	Lanolin DAB	302809	7
Bombastus	Lanolin DAB	304540	2
Bombastus	Lanolin DAB	304541	7
Bombastus	Lanolin DAB	305411	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Lanolin DAB	305440	1
Bombastus	Lanolin DAB	305441	3
Bombastus	Lanolin DAB	306633	4
Bombastus	Lanolin DAB	306634	2
Bombastus	Lanolin DAB	306635	2
Bombastus	Lanolin DAB	309000	7
Bombastus	Lanolin DAB	60080101	4
Bombastus	Lanolin DAB	9/14	1
Bombstus	Lanolin DAB	273293	1
caedo	Lanolin DAB	17296501	1
Cael Sanacorp 05.02.2016	Lanolin DAB	15255202	1
cael	Lanolin DAB	18044101	1
Caela/all	Lanolin DAB	19J09-072602	1
Caelo	Lanolin DAB		6
Caelo	Lanolin DAB	10358301	1
Caelo	Lanolin DAB	1042014A	1
Caelo	Lanolin DAB	1096249	3
Caelo	Lanolin DAB	11011404	1
Caelo	Lanolin DAB	11281701	2
Caelo	Lanolin DAB	11281702	2
Caelo	Lanolin DAB	11282001	2
Caelo	Lanolin DAB	11315101	3
Caelo	Lanolin DAB	11315102	2
Caelo	Lanolin DAB	12037002	1
Caelo	Lanolin DAB	12037101	7
Caelo	Lanolin DAB	12037301	2
Caelo	Lanolin DAB	12037401	4
Caelo	Lanolin DAB	12065101	5
Caelo	Lanolin DAB	12065102	1
Caelo	Lanolin DAB	12193701	23
Caelo	Lanolin DAB	12193702	2
Caelo	Lanolin DAB	12193901	13
Caelo	Lanolin DAB	12194201	4
Caelo	Lanolin DAB	12260301	5
Caelo	Lanolin DAB	12260302	3
Caelo	Lanolin DAB	1230317	1
Caelo	Lanolin DAB	12308601	6
Caelo	Lanolin DAB	12308801	1
Caelo	Lanolin DAB	12308802	21
Caelo	Lanolin DAB	123456	1
Caelo	Lanolin DAB	12H01-T01	1
Caelo	Lanolin DAB	12H01-T02	1
Caelo	Lanolin DAB	13062401	13
Caelo	Lanolin DAB	13062501	11
Caelo	Lanolin DAB	13062602	3
Caelo	Lanolin DAB	13062701	6
Caelo	Lanolin DAB	13062801	2
Caelo	Lanolin DAB	1306501	1
Caelo	Lanolin DAB	13102802	25
Caelo	Lanolin DAB	1310802	1
Caelo	Lanolin DAB	13227601	26
Caelo	Lanolin DAB	13227602	5
Caelo	Lanolin DAB	13227701	18
Caelo	Lanolin DAB	13227801	6
Caelo	Lanolin DAB	13326501	27
Caelo	Lanolin DAB	13326502	6
Caelo	Lanolin DAB	13326601	8
Caelo	Lanolin DAB	13326701	29
Caelo	Lanolin DAB	13326701-3455311103	1
Caelo	Lanolin DAB	133326701	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lanolin DAB	13345901	1
Caelo	Lanolin DAB	13345902	21
Caelo	Lanolin DAB	135302	1
Caelo	Lanolin DAB	13E07-T20-003399	1
Caelo	Lanolin DAB	13H13-To8-006173	1
Caelo	Lanolin DAB	14011304	1
Caelo	Lanolin DAB	14032001	25
Caelo	Lanolin DAB	14032101	24
Caelo	Lanolin DAB	14032201	5
Caelo	Lanolin DAB	14032301	11
Caelo	Lanolin DAB	14032302	2
Caelo	Lanolin DAB	14032401	8
Caelo	Lanolin DAB	14101306	1
Caelo	Lanolin DAB	14165601	39
Caelo	Lanolin DAB	14165701	4
Caelo	Lanolin DAB	14165901	34
Caelo	Lanolin DAB	14166001	16
Caelo	Lanolin DAB	141666001	1
Caelo	Lanolin DAB	1433001	1
Caelo	Lanolin DAB	14333601	1
Caelo	Lanolin DAB	14333602	41
Caelo	Lanolin DAB	14333701	5
Caelo	Lanolin DAB	14333901	10
Caelo	Lanolin DAB	14334001	33
Caelo	Lanolin DAB	1433602	5
Caelo	Lanolin DAB	14A06-T01-009011	1
Caelo	Lanolin DAB	14K11-T01-016976	2
Caelo	Lanolin DAB	15024003	1
Caelo	Lanolin DAB	15024101	2
Caelo	Lanolin DAB	15024102	31
Caelo	Lanolin DAB	15024201	32
Caelo	Lanolin DAB	15024301	5
Caelo	Lanolin DAB	15045502	1
Caelo	Lanolin DAB	1515Q-01765	1
Caelo	Lanolin DAB	15193401	29
Caelo	Lanolin DAB	15193501	31
Caelo	Lanolin DAB	1525501	1
Caelo	Lanolin DAB	15255201	34
Caelo	Lanolin DAB	15255202	31
Caelo	Lanolin DAB	15255301	9
Caelo	Lanolin DAB	15255501	2
Caelo	Lanolin DAB	15255601	9
Caelo	Lanolin DAB	15344401	1
Caelo	Lanolin DAB	1540502	1
Caelo	Lanolin DAB	15405501	30
Caelo	Lanolin DAB	15405502	38
Caelo	Lanolin DAB	15405505	1
Caelo	Lanolin DAB	15405601	45
Caelo	Lanolin DAB	15405702	2
Caelo	Lanolin DAB	15405801	7
Caelo	Lanolin DAB	15c1903020815	1
Caelo	Lanolin DAB	15C19-T01-020809	2
Caelo	Lanolin DAB	16011501	1
Caelo	Lanolin DAB	1602301	1
Caelo	Lanolin DAB	16054602	4
Caelo	Lanolin DAB	16054701	18
Caelo	Lanolin DAB	16054702	3
Caelo	Lanolin DAB	16054801	53
Caelo	Lanolin DAB	16054901	75
Caelo	Lanolin DAB	160614	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lanolin DAB	16064901	1
Caelo	Lanolin DAB	16189401	57
Caelo	Lanolin DAB	16189402	4
Caelo	Lanolin DAB	16189501	48
Caelo	Lanolin DAB	16189501/160314L	1
Caelo	Lanolin DAB	16189602	3
Caelo	Lanolin DAB	16189701	5
Caelo	Lanolin DAB	16302202	4
Caelo	Lanolin DAB	16302301	81
Caelo	Lanolin DAB	16302302	5
Caelo	Lanolin DAB	16302401	64
Caelo	Lanolin DAB	16302402	1
Caelo	Lanolin DAB	16302501	3
Caelo	Lanolin DAB	16302601	4
Caelo	Lanolin DAB	1634401	2
Caelo	Lanolin DAB	16344401	57
Caelo	Lanolin DAB	163444401	1
Caelo	Lanolin DAB	16549	1
Caelo	Lanolin DAB	16G01-T07-034861	1
Caelo	Lanolin DAB	170105186	1
Caelo	Lanolin DAB	1701801	1
Caelo	Lanolin DAB	170184	1
Caelo	Lanolin DAB	170184001	1
Caelo	Lanolin DAB	17018401	132
Caelo	Lanolin DAB	17018502	3
Caelo	Lanolin DAB	17018503	6
Caelo	Lanolin DAB	17018701	45
Caelo	Lanolin DAB	170614181	1
Caelo	Lanolin DAB	17082015D	1
Caelo	Lanolin DAB	17134201	2
Caelo	Lanolin DAB	1713510	1
Caelo	Lanolin DAB	17135101	79
Caelo	Lanolin DAB	171351011	1
Caelo	Lanolin DAB	17135102	4
Caelo	Lanolin DAB	17135201	66
Caelo	Lanolin DAB	17135302	6
Caelo	Lanolin DAB	17135401	6
Caelo	Lanolin DAB	1717135101	1
Caelo	Lanolin DAB	17222401	59
Caelo	Lanolin DAB	17222501	1
Caelo	Lanolin DAB	17222601	142
Caelo	Lanolin DAB	172226015502	1
Caelo	Lanolin DAB	17222691	1
Caelo	Lanolin DAB	17222701	11
Caelo	Lanolin DAB	1726602	1
Caelo	Lanolin DAB	172960025649	1
Caelo	Lanolin DAB	17296501	52
Caelo	Lanolin DAB	1729651	1
Caelo	Lanolin DAB	172966002	1
Caelo	Lanolin DAB	17296601	40
Caelo	Lanolin DAB	17296602	94
Caelo	Lanolin DAB	17296701	3
Caelo	Lanolin DAB	17296702	8
Caelo	Lanolin DAB	17323317	7
Caelo	Lanolin DAB	1735101	1
Caelo	Lanolin DAB	1735201	2
Caelo	Lanolin DAB	1796501	1
Caelo	Lanolin DAB	1796602	2
Caelo	Lanolin DAB	17A03-T02-040001	1
Caelo	Lanolin DAB	17A03-T03-040004	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lanolin DAB	17A03-T05-040010	1
Caelo	Lanolin DAB	17A17296601	1
Caelo	Lanolin DAB	17H24T01047688	1
Caelo	Lanolin DAB	17H24-T04-047697	1
Caelo	Lanolin DAB	17K27-T07-050540	2
Caelo	Lanolin DAB	17K27-T07-0550540	1
Caelo	Lanolin DAB	18/24-T07-060227	1
Caelo	Lanolin DAB	18001870	1
Caelo	Lanolin DAB	18003635	1
Caelo	Lanolin DAB	18044001	11
Caelo	Lanolin DAB	18044101	68
Caelo	Lanolin DAB	18044301	171
Caelo	Lanolin DAB	180443015739	1
Caelo	Lanolin DAB	18044301-L20181115Ma	1
Caelo	Lanolin DAB	1807202	1
Caelo	Lanolin DAB	18092014B	1
Caelo	Lanolin DAB	18107020	1
Caelo	Lanolin DAB	18107201	3
Caelo	Lanolin DAB	18107202	81
Caelo	Lanolin DAB	181072020	1
Caelo	Lanolin DAB	18107203	1
Caelo	Lanolin DAB	18107302	14
Caelo	Lanolin DAB	18107401	10
Caelo	Lanolin DAB	18124-T07-060227	1
Caelo	Lanolin DAB	18230201	61
Caelo	Lanolin DAB	18230302	42
Caelo	Lanolin DAB	18230303	3
Caelo	Lanolin DAB	18242701	1
Caelo	Lanolin DAB	18242801	12
Caelo	Lanolin DAB	18320302	1
Caelo	Lanolin DAB	18325501	57
Caelo	Lanolin DAB	188044301	1
Caelo	Lanolin DAB	18912181	1
Caelo	Lanolin DAB	18D11-T04-054716	1
Caelo	Lanolin DAB	18I24-T08-060230	1
Caelo	Lanolin DAB	18K05-T04-061769	1
Caelo	Lanolin DAB	18L18-T08-062838	2
Caelo	Lanolin DAB	18L18-To-062839	1
Caelo	Lanolin DAB	190000701	1
Caelo	Lanolin DAB	190000702	1
Caelo	Lanolin DAB	19000602	4
Caelo	Lanolin DAB	19000701	15
Caelo	Lanolin DAB	19000702	77
Caelo	Lanolin DAB	19000703	1
Caelo	Lanolin DAB	1900701	1
Caelo	Lanolin DAB	19025302	1
Caelo	Lanolin DAB	19071101	57
Caelo	Lanolin DAB	19071201	97
Caelo	Lanolin DAB	19071301	5
Caelo	Lanolin DAB	1917601	1
Caelo	Lanolin DAB	19176601	80
Caelo	Lanolin DAB	19176701	45
Caelo	Lanolin DAB	19176801	2
Caelo	Lanolin DAB	19201802	2
Caelo	Lanolin DAB	19225203	5
Caelo	Lanolin DAB	19225301	36
Caelo	Lanolin DAB	19225302	31
Caelo	Lanolin DAB	19225303	3
Caelo	Lanolin DAB	19225401	9
Caelo	Lanolin DAB	19267701	58

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lanolin DAB	19267802	96
Caelo	Lanolin DAB	19701201	1
Caelo	Lanolin DAB	1974001	1
Caelo	Lanolin DAB	19C28-T09-065459	1
Caelo	Lanolin DAB	200000838002	1
Caelo	Lanolin DAB	200000839001	1
Caelo	Lanolin DAB	20000389001	1
Caelo	Lanolin DAB	2000083002	1
Caelo	Lanolin DAB	20000836002	1
Caelo	Lanolin DAB	20000837001	9
Caelo	Lanolin DAB	20000838001	7
Caelo	Lanolin DAB	20000838002	16
Caelo	Lanolin DAB	200008390001	1
Caelo	Lanolin DAB	20000839001	78
Caelo	Lanolin DAB	2000083901	1
Caelo	Lanolin DAB	200008391001	1
Caelo	Lanolin DAB	20000840001	26
Caelo	Lanolin DAB	2000084001	2
Caelo	Lanolin DAB	20001974001	46
Caelo	Lanolin DAB	20001974002	3
Caelo	Lanolin DAB	20002426001	25
Caelo	Lanolin DAB	2000246001	1
Caelo	Lanolin DAB	20003318001	9
Caelo	Lanolin DAB	20003318002	49
Caelo	Lanolin DAB	2000331802	1
Caelo	Lanolin DAB	200033188002	1
Caelo	Lanolin DAB	20004309003	2
Caelo	Lanolin DAB	20004311001	13
Caelo	Lanolin DAB	2000431101	1
Caelo	Lanolin DAB	200043111001	1
Caelo	Lanolin DAB	20004312001	39
Caelo	Lanolin DAB	20004312002	1
Caelo	Lanolin DAB	2000439003	1
Caelo	Lanolin DAB	2000839001	1
Caelo	Lanolin DAB	2000839001-2	1
Caelo	Lanolin DAB	2003318002	1
Caelo	Lanolin DAB	20240912-1	1
Caelo	Lanolin DAB	20E12-T070800152	1
Caelo	Lanolin DAB	20E12T07080151	2
Caelo	Lanolin DAB	21000935001	13
Caelo	Lanolin DAB	21000936001	30
Caelo	Lanolin DAB	2100093601	1
Caelo	Lanolin DAB	21001189002	4
Caelo	Lanolin DAB	21002198002	2
Caelo	Lanolin DAB	21002198008	1
Caelo	Lanolin DAB	21002199001	15
Caelo	Lanolin DAB	21002199002	6
Caelo	Lanolin DAB	21003000001	2
Caelo	Lanolin DAB	21003000003	2
Caelo	Lanolin DAB	21004179001	4
Caelo	Lanolin DAB	21004182001	6
Caelo	Lanolin DAB	213Q-01765	1
Caelo	Lanolin DAB	21H10-T02090855	1
Caelo	Lanolin DAB	220413(21003000003)	1
Caelo	Lanolin DAB	220516(21004182001)	1
Caelo	Lanolin DAB	23012015B	1
Caelo	Lanolin DAB	23051815	1
Caelo	Lanolin DAB	23121703	1
Caelo	Lanolin DAB	23326501	1
Caelo	Lanolin DAB	26052014B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lanolin DAB	26061401	1
Caelo	Lanolin DAB	290316L	1
Caelo	Lanolin DAB	2913U-01765	1
Caelo	Lanolin DAB	30081806	1
Caelo	Lanolin DAB	31121301	1
Caelo	Lanolin DAB	3285	1
Caelo	Lanolin DAB	3316	1
Caelo	Lanolin DAB	3431	1
Caelo	Lanolin DAB	3613A-01765	1
Caelo	Lanolin DAB	42(17222601)	1
Caelo	Lanolin DAB	43(17296602)	1
Caelo	Lanolin DAB	44(18107202)	1
Caelo	Lanolin DAB	4413M01765	1
Caelo	Lanolin DAB	4616M-01765	1
Caelo	Lanolin DAB	48(20001974001)	1
Caelo	Lanolin DAB	4817E-01765	1
Caelo	Lanolin DAB	5113A-01765	1
Caelo	Lanolin DAB	5211Q-01765	1
Caelo	Lanolin DAB	5651400	1
Caelo	Lanolin DAB	6003682006	1
Caelo	Lanolin DAB	7071205	1
Caelo	Lanolin DAB	713I-01765	1
Caelo	Lanolin DAB	8004134012	1
Caelo	Lanolin DAB	8061713	1
Caelo	Lanolin DAB	8071503	1
Caelo	Lanolin DAB	8072003	1
Caelo	Lanolin DAB	8072014A	1
Caelo	Lanolin DAB	80816	1
Caelo	Lanolin DAB	8082014B	1
Caelo	Lanolin DAB	9011406	1
Caelo	Lanolin DAB	9041401	1
Caelo	Lanolin DAB	9112013B	1
Caelo	Lanolin DAB	CH-B17222601	1
Caelo	Lanolin DAB	L-030120-1	1
Caeol/ Noweda	Lanolin DAB	18230302	2
Caeol/Phönix	Lanolin DAB	19267802	2
Caeol/Sanacorp	Lanolin DAB	17135101	1
Caeol	Lanolin DAB	7022014A	1
Caeolo/ Noweda	Lanolin DAB	14333701	1
Caeolo/Gehe	Lanolin DAB	17135101	1
Caeolo/Gehe	Lanolin DAB	17296501	1
Caeolo/Gehe	Lanolin DAB	18044101	1
Caeolo/Noweda	Lanolin DAB	15193501	1
Caeolo/Noweda	Lanolin DAB	16302401	1
Caesa / Alliance Health...	Lanolin DAB	20004312001	1
Caesar & Loretz GmbH F...	Lanolin DAB	21004178001	1
Caesar & Loretz GmbH / ...	Lanolin DAB	19225301	1
Caesar & Loretz GmbH / ...	Lanolin DAB	16189401	1
Caesar & Loretz GmbH / ...	Lanolin DAB	19225301	1
Caesar & Loretz GmbH / ...	Lanolin DAB	20001974001	2
Caesar & Loretz GmbH / ...	Lanolin DAB	21000935001	2
Caesar & Loretz GmbH / ...	Lanolin DAB	200000839001	1
Caesar & Loretz GmbH / ...	Lanolin DAB	19267802	1
Caesar & Loretz GmbH / ...	Lanolin DAB	20000839001	2
Caesar & Loretz GmbH / ...	Lanolin DAB	20003318002	1
Caesar & Loretz GmbH / ...	Lanolin DAB	18230302	2
Caesar & Loretz GmbH / ...	Lanolin DAB	19071301	1
Caesar & Loretz GmbH / ...	Lanolin DAB	19267802	1
Caesar & Loretz GmbH / ...	Lanolin DAB	20000839001	1
Caesar & Loretz GmbH /AEP	Lanolin DAB	20004312001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH /F...	Lanolin DAB	1917601	1
Caesar & Loretz GmbH Hi...	Lanolin DAB	16189401	1
Caesar & Loretz GmbH, 4...	Lanolin DAB	12037101	1
Caesar & Loretz GmbH, 4...	Lanolin DAB	12260301	1
Caesar & Loretz GmbH, 4...	Lanolin DAB	13062401	1
Caesar & Loretz GmbH, P...	Lanolin DAB	20001974001	1
Caesar & Loretz GmbH/ A...	Lanolin DAB	18325501	1
Caesar & Loretz GmbH/ G...	Lanolin DAB	19267802	1
Caesar & Loretz GmbH/ K...	Lanolin DAB	19267802	1
Caesar & Loretz GmbH/ N...	Lanolin DAB	19/09-T09-072602	1
Caesar & Loretz GmbH/ N...	Lanolin DAB	19176601	1
Caesar & Loretz GmbH/ N...	Lanolin DAB	19176801	1
Caesar & Loretz GmbH/ N...	Lanolin DAB	19225203	2
Caesar & Loretz GmbH/ N...	Lanolin DAB	20000837001	1
Caesar & Loretz GmbH/ N...	Lanolin DAB	20004312002	1
Caesar & Loretz GmbH/ P...	Lanolin DAB	20000839001	3
Caesar & Loretz GmbH/ S...	Lanolin DAB	20000839001	1
Caesar & Loretz GmbH/AEP	Lanolin DAB	19071201	1
Caesar & Loretz GmbH/AEP	Lanolin DAB	21000936001	1
Caesar & Loretz GmbH/AHD	Lanolin DAB	19000702	1
Caesar & Loretz GmbH/AHD	Lanolin DAB	19176701	1
Caesar & Loretz GmbH/AHD	Lanolin DAB	19225301	1
Caesar & Loretz GmbH/AHD	Lanolin DAB	19225302	1
Caesar & Loretz GmbH/AHD	Lanolin DAB	20004311001	1
Caesar & Loretz GmbH/AHD	Lanolin DAB	21000936001	1
Caesar & Loretz GmbH/AHD	Lanolin DAB	21002199002	1
Caesar & Loretz GmbH/An...	Lanolin DAB	19000702	1
Caesar & Loretz GmbH/Fi...	Lanolin DAB	18325501	1
Caesar & Loretz GmbH/fi...	Lanolin DAB	19267701	1
Caesar & Loretz GmbH/Fi...	Lanolin DAB	20000840001	2
Caesar & Loretz GmbH/Fi...	Lanolin DAB	20002426001	1
Caesar & Loretz GmbH/Fi...	Lanolin DAB	20003318002	1
Caesar & Loretz GmbH/Fi...	Lanolin DAB	20004311001	2
Caesar & Loretz GmbH/Fi...	Lanolin DAB	21000936001	1
Caesar & Loretz GmbH/GEHE	Lanolin DAB	18230302	1
Caesar & Loretz GmbH/GEHE	Lanolin DAB	19000702	2
Caesar & Loretz GmbH/GEHE	Lanolin DAB	19071101	1
Caesar & Loretz GmbH/Gehe	Lanolin DAB	19176601	1
Caesar & Loretz GmbH/Gehe	Lanolin DAB	19225301	1
Caesar & Loretz GmbH/GEHE	Lanolin DAB	19267701	1
Caesar & Loretz GmbH/Gehe	Lanolin DAB	19267802	1
Caesar & Loretz GmbH/GEHE	Lanolin DAB	20000839001	1
Caesar & Loretz GmbH/Gehe	Lanolin DAB	20003318002	2
Caesar & Loretz GmbH/Gehe	Lanolin DAB	20004312001	1
Caesar & Loretz GmbH/Ge...	Lanolin DAB	19071101	1
Caesar & Loretz GmbH/Ge...	Lanolin DAB	19225302	2
Caesar & Loretz GmbH/Ge...	Lanolin DAB	20002426001	1
Caesar & Loretz GmbH/Go...	Lanolin DAB	19071101	1
Caesar & Loretz GmbH/Gö...	Lanolin DAB	19000701	1
Caesar & Loretz GmbH/Je...	Lanolin DAB	19267802	2
Caesar & Loretz GmbH/Je...	Lanolin DAB	20000839001	1
Caesar & Loretz GmbH/Kehr	Lanolin DAB	21000936001	1
Caesar & Loretz GmbH/Kr...	Lanolin DAB	20000839001	1
Caesar & Loretz GmbH/Kr...	Lanolin DAB	20003318002	1
Caesar & Loretz GmbH/Kr...	Lanolin DAB	21000936001	1
Caesar & Loretz GmbH/MI...	Lanolin DAB	19071201	1
Caesar & Loretz GmbH/No...	Lanolin DAB	19176601	1
Caesar & Loretz GmbH/No...	Lanolin DAB	18230302	1
Caesar & Loretz GmbH/No...	Lanolin DAB	18325501	1
Caesar & Loretz GmbH/No...	Lanolin DAB	19000702	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/No...	Lanolin DAB	19071201	5
Caesar & Loretz GmbH/No...	Lanolin DAB	19176601	2
Caesar & Loretz GmbH/No...	Lanolin DAB	19267802	2
Caesar & Loretz GmbH/No...	Lanolin DAB	20000839001	6
Caesar & Loretz GmbH/No...	Lanolin DAB	20001974001	3
Caesar & Loretz GmbH/No...	Lanolin DAB	20003318002	1
Caesar & Loretz GmbH/No...	Lanolin DAB	21000936001	2
Caesar & Loretz GmbH/No...	Lanolin DAB	21003000003	1
Caesar & Loretz GmbH/ph...	Lanolin DAB	19267802	2
Caesar & Loretz GmbH/Ph...	Lanolin DAB	19267802	1
Caesar & Loretz GmbH/Ph...	Lanolin DAB	20000838002	1
Caesar & Loretz GmbH/Ph...	Lanolin DAB	20000839001	1
Caesar & Loretz GmbH/Ph...	Lanolin DAB	21002199001	2
Caesar & Loretz GmbH/Ph...	Lanolin DAB	18230302	1
Caesar & Loretz GmbH/Ph...	Lanolin DAB	19000702	1
Caesar & Loretz GmbH/Ph...	Lanolin DAB	19071201	1
Caesar & Loretz GmbH/ph...	Lanolin DAB	19176601	1
Caesar & Loretz GmbH/ph...	Lanolin DAB	19267802	1
Caesar & Loretz GmbH/Ph...	Lanolin DAB	20000838001	1
Caesar & Loretz GmbH/Ph...	Lanolin DAB	20000839001	1
Caesar & Loretz GmbH/Ph...	Lanolin DAB	20000840001	2
Caesar & Loretz GmbH/Ph...	Lanolin DAB	20001974001	3
Caesar & Loretz GmbH/Ph...	Lanolin DAB	20002426001	2
Caesar & Loretz GmbH/Ph...	Lanolin DAB	20003318001	4
Caesar & Loretz GmbH/Ph...	Lanolin DAB	20004312001	4
Caesar & Loretz GmbH/Ph...	Lanolin DAB	21000936001	3
Caesar & Loretz GmbH/sana	Lanolin DAB	20001974	1
Caesar & Loretz GmbH/Sana	Lanolin DAB	20003318002	1
Caesar & Loretz GmbH/Sa...	Lanolin DAB	18242801	1
Caesar & Loretz GmbH/Sa...	Lanolin DAB	19176601	1
Caesar & Loretz GmbH/sa...	Lanolin DAB	19225301	1
Caesar & Loretz GmbH/sa...	Lanolin DAB	19225401	1
Caesar & Loretz GmbH/Sa...	Lanolin DAB	19267701	1
Caesar & Loretz GmbH/Sa...	Lanolin DAB	20000839001	1
Caesar & Loretz GmbH	Lanolin DAB	12193701	1
Caesar & Loretz GmbH	Lanolin DAB	13227601	1
Caesar & Loretz GmbH	Lanolin DAB	14032001	1
Caesar & Loretz GmbH	Lanolin DAB	14165601	1
Caesar & Loretz GmbH	Lanolin DAB	15024102	1
Caesar & Loretz GmbH	Lanolin DAB	16189401	1
Caesar & Loretz GmbH	Lanolin DAB	16189501	1
Caesar & Loretz GmbH	Lanolin DAB	16344401	1
Caesar & Loretz GmbH	Lanolin DAB	17018701	1
Caesar & Loretz GmbH	Lanolin DAB	17135101	1
Caesar & Loretz GmbH	Lanolin DAB	17296601	1
Caesar & Loretz GmbH	Lanolin DAB	18044001	1
Caesar & Loretz GmbH	Lanolin DAB	18044101	1
Caesar & Loretz GmbH	Lanolin DAB	18044301	1
Caesar & Loretz GmbH	Lanolin DAB	18107202	1
Caesar & Loretz GmbH	Lanolin DAB	18107401	1
Caesar & Loretz GmbH	Lanolin DAB	18230201	6
Caesar & Loretz GmbH	Lanolin DAB	18230302	10
Caesar & Loretz GmbH	Lanolin DAB	18242801	2
Caesar & Loretz GmbH	Lanolin DAB	18325501	12
Caesar & Loretz GmbH	Lanolin DAB	18L18-T08-062838	1
Caesar & Loretz GmbH	Lanolin DAB	19000602	4
Caesar & Loretz GmbH	Lanolin DAB	19000701	5
Caesar & Loretz GmbH	Lanolin DAB	19000702	39
Caesar & Loretz GmbH	Lanolin DAB	190267802	1
Caesar & Loretz GmbH	Lanolin DAB	19035701	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Lanolin DAB	19071101	34
Caesar & Loretz GmbH	Lanolin DAB	19071201	33
Caesar & Loretz GmbH	Lanolin DAB	19071301	1
Caesar & Loretz GmbH	Lanolin DAB	19176601	29
Caesar & Loretz GmbH	Lanolin DAB	19176602	3
Caesar & Loretz GmbH	Lanolin DAB	19176701	16
Caesar & Loretz GmbH	Lanolin DAB	19176801	8
Caesar & Loretz GmbH	Lanolin DAB	19201802	3
Caesar & Loretz GmbH	Lanolin DAB	19206301	1
Caesar & Loretz GmbH	Lanolin DAB	19225203	2
Caesar & Loretz GmbH	Lanolin DAB	19225301	8
Caesar & Loretz GmbH	Lanolin DAB	19225302	11
Caesar & Loretz GmbH	Lanolin DAB	19225303	1
Caesar & Loretz GmbH	Lanolin DAB	19225401	3
Caesar & Loretz GmbH	Lanolin DAB	19267701	23
Caesar & Loretz GmbH	Lanolin DAB	19267801	1
Caesar & Loretz GmbH	Lanolin DAB	19267802	22
Caesar & Loretz GmbH	Lanolin DAB	1926802	1
Caesar & Loretz GmbH	Lanolin DAB	19J09-T09-072602	1
Caesar & Loretz GmbH	Lanolin DAB	200000840001	1
Caesar & Loretz GmbH	Lanolin DAB	20000837001	1
Caesar & Loretz GmbH	Lanolin DAB	20000838002	1
Caesar & Loretz GmbH	Lanolin DAB	20000839001	36
Caesar & Loretz GmbH	Lanolin DAB	20000840001	7
Caesar & Loretz GmbH	Lanolin DAB	20001974001	18
Caesar & Loretz GmbH	Lanolin DAB	20002426001	9
Caesar & Loretz GmbH	Lanolin DAB	20003100003	1
Caesar & Loretz GmbH	Lanolin DAB	20003318001	5
Caesar & Loretz GmbH	Lanolin DAB	20003318002	22
Caesar & Loretz GmbH	Lanolin DAB	20004311001	7
Caesar & Loretz GmbH	Lanolin DAB	200043112001	1
Caesar & Loretz GmbH	Lanolin DAB	20004312001	11
Caesar & Loretz GmbH	Lanolin DAB	20004312002	1
Caesar & Loretz GmbH	Lanolin DAB	21000935001	5
Caesar & Loretz GmbH	Lanolin DAB	21000936001	13
Caesar & Loretz GmbH	Lanolin DAB	21002198002	1
Caesar & Loretz GmbH	Lanolin DAB	21002199001	5
Caesar & Loretz GmbH	Lanolin DAB	21002199002	2
Caesar & Loretz GmbH	Lanolin DAB	21003000001	5
Caesar & Loretz GmbH	Lanolin DAB	21003000003	4
Caesar & Loretz GmbH	Lanolin DAB	21003000004	2
Caesar & Loretz GmbH	Lanolin DAB	21004182001	6
Caesar & Loretz GmbH	Lanolin DAB	2100482001	1
Caesar & Loretz GmbH	Lanolin DAB	T09-0654509	1
Caesar & Loretz GmbH	Lanolin DAB	T12-0778005	1
Caesar & Loretz GmbHSan...	Lanolin DAB	20000839001	1
Caesar & Loretz Hilden	Lanolin DAB	19000701	1
Caesar & Loretz Hilden	Lanolin DAB	19176701	2
Caesar & Loretz Hilden	Lanolin DAB	20000840001	1
Caesar & Loretz Hilden	Lanolin DAB	20002426001	1
Caesar & Loretz/ Noweda	Lanolin DAB	17222601	1
Caesar & Loretz/AHD	Lanolin DAB	19071201	1
Caesar & Loretz/Gehe	Lanolin DAB	18325501	7
Caesar & Loretz/Gehe	Lanolin DAB	19225302	16
Caesar & Loretz/Geilenk...	Lanolin DAB	18230302	2
Caesar & Loretz/Geilenk...	Lanolin DAB	19176601	1
Caesar & Loretz/Geilenk...	Lanolin DAB	20000839001	1
Caesar & Loretz/Geilenk...	Lanolin DAB	20001974001	1
Caesar & Loretz/Noweda	Lanolin DAB	17018401	1
caesar & Loretz	Lanolin DAB	16054901	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz	Lanolin DAB	16189401	1
Caesar & Loretz	Lanolin DAB	16302301	1
Caesar & Loretz	Lanolin DAB	16302401	3
Caesar & Loretz	Lanolin DAB	17296602	1
Caesar & Loretz	Lanolin DAB	18044301	1
Caesar &Loretz GmbH	Lanolin DAB	12193701	1
Caesar Loretz/Fiebig	Lanolin DAB	17222601	1
Caesar und Loretz GmbH	Lanolin DAB	18044301	1
Caesar&Lorenz / Gehe	Lanolin DAB	19176601	2
Caesar&Lorenz	Lanolin DAB	21000936001	1
Caesar&Lorenz	Lanolin DAB	21002199001	1
Caesar&loretz,Phoenix	Lanolin DAB	14333602	1
caesar&loretz,Phönix	Lanolin DAB	15405502	1
Caesar/Lorenz	Lanolin DAB	14032001	1
Caleo/Gehe	Lanolin DAB	18044101	1
Caleo	Lanolin DAB	16302401	1
Caolo / Kehr	Lanolin DAB	19267802	2
Castor/Phönix	Lanolin DAB	15255301	1
Cealeo/Phönix	Lanolin DAB	17222601	1
Cealo / Anzag	Lanolin DAB	220712(21004182001)	1
Cealo/ AHD	Lanolin DAB	15405501	1
Cealo/ AHD	Lanolin DAB	19267701	1
Cealo/ Anzag	Lanolin DAB	17135101	1
Cealo/AHD	Lanolin DAB	16054801	2
Cealo/AHD	Lanolin DAB	1634401	1
Cealo/AHD	Lanolin DAB	18044301	1
Cealo/Gehe	Lanolin DAB	17296602	1
Cealo/Gehe	Lanolin DAB	19176701	1
Cealo/Jenne	Lanolin DAB	211019(21000936001)	1
Cealo/Phoenix	Lanolin DAB	17222601	1
cealo	Lanolin DAB	16054701	2
Cealo	Lanolin DAB	16054701	1
DAB 2008	Lanolin DAB	11281701	1
Delta	Lanolin DAB	17222601	1
Dr. Wolff/phönix	Lanolin DAB	17222401	1
E Plus	Lanolin DAB	17296602	1
Ebert & Jacobi	Lanolin DAB	15405502	1
Ebert & Jacobi	Lanolin DAB	18044301	1
Ebert & Jacobi	Lanolin DAB	19176601	1
Eigene Herstellung	Lanolin DAB	10052016	1
EuRho	Lanolin DAB	17018401	2
Euro OTC	Lanolin DAB	11281901	2
Euro OTC	Lanolin DAB	15405501	2
Euro OTC	Lanolin DAB	16054901	2
Euro OTC	Lanolin DAB	16189401	1
Euro OTC	Lanolin DAB	17222401	2
Euro OTC	Lanolin DAB	17K27-T07-050540	1
Euro OTC	Lanolin DAB	19000702	1
Euro OTC	Lanolin DAB	260416v1	1
Euro OTC	Lanolin DAB	2781	1
Euro OTC	Lanolin DAB	306635	1
Euro OTC	Lanolin DAB	4617A-01765	1
Fagon/Noweda	Lanolin DAB	T09-0726002	1
Fagon/Noweda	Lanolin DAB	T12-0778005	1
Fagron	Lanolin DAB		1
Fagron	Lanolin DAB	1018E-01765	1
Fagron	Lanolin DAB	11k18-t01	1
Fagron	Lanolin DAB	11K27-T07-050540	1
Fagron	Lanolin DAB	12-07780005	1
Fagron	Lanolin DAB	12C06-T02	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lanolin DAB	12E22-T04	4
Fagron	Lanolin DAB	12E22-T06	1
Fagron	Lanolin DAB	12E22-T07	1
Fagron	Lanolin DAB	12H01-T01	1
Fagron	Lanolin DAB	12H01-T04	2
Fagron	Lanolin DAB	13804-T22-0002	1
Fagron	Lanolin DAB	13B04-T20-00108	1
Fagron	Lanolin DAB	13B04-T20-001084	3
Fagron	Lanolin DAB	13B04-T20-0010B4	1
Fagron	Lanolin DAB	13B04-T21-001085	4
Fagron	Lanolin DAB	13B04-T22-001078	2
Fagron	Lanolin DAB	13B12-T01-001087	2
Fagron	Lanolin DAB	13E0760-0002	1
Fagron	Lanolin DAB	13E07-T18-003392	3
Fagron	Lanolin DAB	13E07-T20-003401	1
Fagron	Lanolin DAB	13E07-T21-003404	1
Fagron	Lanolin DAB	13E07-T22-003407	1
Fagron	Lanolin DAB	13E07-Trg-oo3395	1
Fagron	Lanolin DAB	13H13-12	1
Fagron	Lanolin DAB	13H13-T08_006173	1
Fagron	Lanolin DAB	13H13-T08-006173	1
Fagron	Lanolin DAB	13H13T11-006183	1
Fagron	Lanolin DAB	13H13T11006184	1
Fagron	Lanolin DAB	13H13-T12-006187	3
Fagron	Lanolin DAB	14166001	1
Fagron	Lanolin DAB	14A06T01009011	1
Fagron	Lanolin DAB	14A06-T01-009011	4
Fagron	Lanolin DAB	14A06T02	3
Fagron	Lanolin DAB	14A06-T02-009014	2
Fagron	Lanolin DAB	14A06-T03-009017	3
Fagron	Lanolin DAB	14A06-T04-009021	1
Fagron	Lanolin DAB	14A06-T06-009028	1
Fagron	Lanolin DAB	14E06T07	1
Fagron	Lanolin DAB	14E06-T07	1
Fagron	Lanolin DAB	14E06-T07-012186	5
Fagron	Lanolin DAB	14E06-T09-012194	6
Fagron	Lanolin DAB	14E06-T10	1
Fagron	Lanolin DAB	14E06-T10-012197	1
Fagron	Lanolin DAB	14E06-T11-012200	2
Fagron	Lanolin DAB	14E06-TT08-012190	1
Fagron	Lanolin DAB	14K11-T01-016976	5
Fagron	Lanolin DAB	14K11-T03-016983	2
Fagron	Lanolin DAB	14K11-T03-016984	2
Fagron	Lanolin DAB	15255201	1
Fagron	Lanolin DAB	15405601	1
Fagron	Lanolin DAB	15C19-T01-0001	1
Fagron	Lanolin DAB	15C19-T01-020809	1
Fagron	Lanolin DAB	15c19-t02-020812	1
Fagron	Lanolin DAB	15C19-T02-020812	8
Fagron	Lanolin DAB	15C19T03	1
Fagron	Lanolin DAB	15c19-t03-020815	1
Fagron	Lanolin DAB	15C19-T03-020815	6
Fagron	Lanolin DAB	15C19-T04-020818	1
Fagron	Lanolin DAB	15c19-t05-020821	1
Fagron	Lanolin DAB	15C19-T05-020821	1
Fagron	Lanolin DAB	15C-9-T02020812	1
Fagron	Lanolin DAB	15E04-T01-022046	2
Fagron	Lanolin DAB	15G02-T10-024152	2
Fagron	Lanolin DAB	15G02-T11-024155	2
Fagron	Lanolin DAB	16189401	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lanolin DAB	16302401	2
Fagron	Lanolin DAB	16G01-T03-034847	7
Fagron	Lanolin DAB	16G01-T04-034850	6
Fagron	Lanolin DAB	16G01-T05	1
Fagron	Lanolin DAB	16G01-T05-034853	7
Fagron	Lanolin DAB	16G01-T06	1
Fagron	Lanolin DAB	16G01-T06-034857	2
Fagron	Lanolin DAB	16G01-T07-034861	6
Fagron	Lanolin DAB	16G01-T08-034867	5
Fagron	Lanolin DAB	17018401	2
Fagron	Lanolin DAB	17135101	1
Fagron	Lanolin DAB	17222401	1
Fagron	Lanolin DAB	17A03-040004	1
Fagron	Lanolin DAB	17A03-T02-040001	5
Fagron	Lanolin DAB	17A03-T02-040010	1
Fagron	Lanolin DAB	17A03-T03-040004	2
Fagron	Lanolin DAB	17A03-T04-040007	3
Fagron	Lanolin DAB	17-A03-T04-040007	1
Fagron	Lanolin DAB	17A03-T05-040010	3
Fagron	Lanolin DAB	17H24-T01	1
Fagron	Lanolin DAB	17H24-T01-047688	5
Fagron	Lanolin DAB	17H24t02047691	1
Fagron	Lanolin DAB	17H24-T02-047691	7
Fagron	Lanolin DAB	17H24-T03-047694	2
Fagron	Lanolin DAB	17H24T04047697	1
Fagron	Lanolin DAB	17H24-T04-047697	1
Fagron	Lanolin DAB	17H24-T05-047700	1
Fagron	Lanolin DAB	17H24-To1-047688	1
Fagron	Lanolin DAB	17H24-To4-047697	1
Fagron	Lanolin DAB	17K17-T07-050540	1
Fagron	Lanolin DAB	17k27-t07-050540	3
Fagron	Lanolin DAB	17k27-T07-050540	1
Fagron	Lanolin DAB	17K27-T07-050540	40
Fagron	Lanolin DAB	17k27-t07-0550540	1
Fagron	Lanolin DAB	18044101	1
Fagron	Lanolin DAB	18124-T07-060227	1
Fagron	Lanolin DAB	1824-T08-060230	1
Fagron	Lanolin DAB	18D11-T03-054713	2
Fagron	Lanolin DAB	18D11-T04-054716	4
Fagron	Lanolin DAB	18I24-T07-060227	1
Fagron	Lanolin DAB	18I24-T08-060230	1
Fagron	Lanolin DAB	18k05_t04_061769	1
Fagron	Lanolin DAB	18K05-T04061769	1
Fagron	Lanolin DAB	18K05-T04-061769	5
Fagron	Lanolin DAB	18K05-T05-061772	7
Fagron	Lanolin DAB	18L18-T08	2
Fagron	Lanolin DAB	18l18-T08-062838	2
Fagron	Lanolin DAB	18L18-T08-062838	24
Fagron	Lanolin DAB	18L18-T08-062839	12
Fagron	Lanolin DAB	19267701	2
Fagron	Lanolin DAB	19C28-T09	1
Fagron	Lanolin DAB	19c28-T09-065459	1
Fagron	Lanolin DAB	19C28T09065459	1
Fagron	Lanolin DAB	19C28-T09-065459	11
Fagron	Lanolin DAB	19C28T09065460	1
Fagron	Lanolin DAB	19C28T09-065460	4
Fagron	Lanolin DAB	19C28-T09-065460	9
Fagron	Lanolin DAB	19C28-T09-265459	1
Fagron	Lanolin DAB	19C28-Tog-065459	2
Fagron	Lanolin DAB	19C28-Tog-065460	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lanolin DAB	19H12-T03-070722	1
Fagron	Lanolin DAB	19H12T03070772	1
Fagron	Lanolin DAB	19H12-T03-070772	20
Fagron	Lanolin DAB	19H12T03070773	2
Fagron	Lanolin DAB	19H12-T03-070773	15
Fagron	Lanolin DAB	19J09-T09	1
Fagron	Lanolin DAB	19J09-T09072602	1
Fagron	Lanolin DAB	19J09-T09-072602	9
Fagron	Lanolin DAB	19J09-T-09-072602	1
Fagron	Lanolin DAB	19J09-T09-072603	3
Fagron	Lanolin DAB	19Jo9-To9-o726o2	1
Fagron	Lanolin DAB	19L18-T08-062839	1
Fagron	Lanolin DAB	2014173	1
Fagron	Lanolin DAB	20c19-t12-077805	1
Fagron	Lanolin DAB	20C19T12077805	1
Fagron	Lanolin DAB	20C19-T12077805	1
Fagron	Lanolin DAB	20C19-T12-077805	20
Fagron	Lanolin DAB	20C19-T12-077806	2
Fagron	Lanolin DAB	20E12-T07_080151	1
Fagron	Lanolin DAB	20E12-T07-080151	5
Fagron	Lanolin DAB	20E12-T07-080152	7
Fagron	Lanolin DAB	20E12-To17080151	1
Fagron	Lanolin DAB	20J14-T13-083295	4
Fagron	Lanolin DAB	20J14-T13-083296	1
Fagron	Lanolin DAB	21B12-T04-086353	2
Fagron	Lanolin DAB	21B12-T04-086354	3
Fagron	Lanolin DAB	21B12-T04-086353	1
Fagron	Lanolin DAB	21h10-t02-090855	1
Fagron	Lanolin DAB	21H10-T02-090855	1
Fagron	Lanolin DAB	21hto702090855	1
Fagron	Lanolin DAB	ngH12-T03-070773	1
Fagron	Lanolin DAB	T02-0001	1
Fagron	Lanolin DAB	T02-0908505	1
Fagron	Lanolin DAB	T03-0707702	2
Fagron	Lanolin DAB	T03-0707703	1
Fagron	Lanolin DAB	T04-0863504	1
Fagron	Lanolin DAB	T07-0801501	1
Fagron	Lanolin DAB	T07-0801502	3
Fagron	Lanolin DAB	t09-0726002	1
Fagron	Lanolin DAB	T09-0726002	3
Fagron	Lanolin DAB	T09-0726003	2
Fagron	Lanolin DAB	T12-0078006	1
Fagron	Lanolin DAB	T12-0778005	5
Fagron	Lanolin DAB	T12-0778006	2
Fagron	Lanolin DAB	T12-077805	1
Fagron	Lanolin DAB	T13-0832906	1
Fargo	Lanolin DAB	19C28-Tog-065459	1
Fargon/Noweda	Lanolin DAB	17K27-T07-050540	1
Fargon/Noweda	Lanolin DAB	18K05-T05-061772	1
Fargon/Phönix	Lanolin DAB	19H-12T03-070773	2
Fargon/Phönix	Lanolin DAB	T03-0707702	1
Fargon	Lanolin DAB	14k11-t01-016976	1
Fargon	Lanolin DAB	16G01-T08-034867	1
Fargron/Noweda	Lanolin DAB	15C19-T01-020809	1
Fiebig	Lanolin DAB	15405702	2
Fiebig	Lanolin DAB	16189701	1
Fiebig	Lanolin DAB	16302601	1
Fiebig	Lanolin DAB	16344401	1
Fiebig	Lanolin DAB	17135201	1
Fiebig	Lanolin DAB	17135401	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Lanolin DAB	17222401	1
Fiebig	Lanolin DAB	17222701	1
Fiebig	Lanolin DAB	17296702	1
Fiebig	Lanolin DAB	18044001	2
Fiebig	Lanolin DAB	18044101	1
Fiebig	Lanolin DAB	18044301	4
Fiebig	Lanolin DAB	181072202	1
Fiebig	Lanolin DAB	18107302	1
Fiebig	Lanolin DAB	18107401	1
Fiebig	Lanolin DAB	18325501	4
Fiebig	Lanolin DAB	19176601	4
Fiebig	Lanolin DAB	20000839001	1
Fragon / Phoenix	Lanolin DAB	19C28-Tog-065460	1
Fragon / PhönixF	Lanolin DAB	18L18-T08-062838	1
Fragon/Anzag	Lanolin DAB	18D11-T04-054716	1
GEHE 26.11.2014	Lanolin DAB	14A06-T04-009021	1
Gehe 29.07.14	Lanolin DAB	14032001	1
Gehe am 21.2.14	Lanolin DAB	13326501	2
Gehe amax	Lanolin DAB	18107202	1
Gehe amax	Lanolin DAB	18230302	1
Gehe amax	Lanolin DAB	19267802	1
Gehe	Lanolin DAB	12193701	1
Gehe	Lanolin DAB	13062501	1
Gehe	Lanolin DAB	13326601	2
Gehe	Lanolin DAB	13B04-T20-001084	1
Gehe	Lanolin DAB	14032001	1
Gehe	Lanolin DAB	14165601	1
Gehe	Lanolin DAB	14E06-T07-012186	1
GEHE	Lanolin DAB	14K11-T03-016984	1
Gehe	Lanolin DAB	15024102	1
Gehe	Lanolin DAB	15024301	1
Gehe	Lanolin DAB	15255201	2
Gehe	Lanolin DAB	15255202	1
Gehe	Lanolin DAB	15255302	1
Gehe	Lanolin DAB	16054602	1
Gehe	Lanolin DAB	16054701	1
Gehe	Lanolin DAB	16054702	1
Gehe	Lanolin DAB	16054801	1
GEHE	Lanolin DAB	16189501	2
Gehe	Lanolin DAB	16302301	1
Gehe	Lanolin DAB	16344401	1
Gehe	Lanolin DAB	17000364	1
Gehe	Lanolin DAB	17018401	2
GEHE	Lanolin DAB	17018401	1
Gehe	Lanolin DAB	17018701	1
GEHE	Lanolin DAB	17018701	1
Gehe	Lanolin DAB	17043202	1
GEHE	Lanolin DAB	17135101	1
Gehe	Lanolin DAB	17135201	1
Gehe	Lanolin DAB	17222601	1
Gehe	Lanolin DAB	17H24-T02-047691	1
GEHE	Lanolin DAB	18044301	3
GEHE	Lanolin DAB	18107202	2
Gehe	Lanolin DAB	18230201	1
Gehe	Lanolin DAB	18325501	1
Gehe	Lanolin DAB	18L18-T08-062838	1
Gehe	Lanolin DAB	18L18To8062838	1
Gehe	Lanolin DAB	19000702	1
Gehe	Lanolin DAB	19071101	2
Gehe	Lanolin DAB	19267802	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Lanolin DAB	20000839001	2
Gehe	Lanolin DAB	301170	1
GEHE	Lanolin DAB	309000	1
H.Lamotte	Lanolin DAB	8002875002	1
H.Lamotte	Lanolin DAB	8004134012	2
Hänseler	Lanolin DAB		2
harn	Lanolin DAB	17222601	1
Hedinger	Lanolin DAB	16302301	2
Hedinger	Lanolin DAB	19071201	1
Henry Lamotte /AHD	Lanolin DAB	8004134012	2
Henry Lamotte Oils / AHD	Lanolin DAB	5375500	3
Henry Lamotte Oils GmbH...	Lanolin DAB	5264900	1
Henry Lamotte Oils GmbH...	Lanolin DAB	5375500	2
Henry Lamotte Oils GmbH...	Lanolin DAB	6000746001	2
Henry Lamotte Oils GmbH...	Lanolin DAB	5860800	1
Henry Lamotte Oils GmbH	Lanolin DAB	6000746001	1
Henry Lamotte Oils GmbH	Lanolin DAB	6003682006	1
Henry Lamotte Oils GmbH	Lanolin DAB	8002875002	3
Henry Lamotte Oils	Lanolin DAB	1000010940	2
Henry Lamotte Oils	Lanolin DAB	5264900	1
Henry Lamotte Oils	Lanolin DAB	5316400	1
Henry Lamotte/ Noweda	Lanolin DAB	5517200	1
Henry Lamotte/ Noweda	Lanolin DAB	5651400	2
Henry Lamotte/ Noweda	Lanolin DAB	60000746001	1
Henry Lamotte/ Noweda	Lanolin DAB	6000746001	1
Henry Lamotte/Noweda	Lanolin DAB	5860800	1
Henry Lamotte/Noweda	Lanolin DAB	6003682006	3
Henry Lamotte/Noweda	Lanolin DAB	8002875002	1
Henry Lamotte	Lanolin DAB	1000014901	1
Henry Lamotte	Lanolin DAB	16302401	1
Henry Lamotte	Lanolin DAB	5375500	2
Henry Lamotte	Lanolin DAB	5860800	1
Henry Lamotte	Lanolin DAB	8002875002	1
Henry/AHD	Lanolin DAB	5651400	1
Henry/Fiebig	Lanolin DAB	5860800	3
Henry	Lanolin DAB	5316400	1
HenryLamotte/Alliance	Lanolin DAB	5517200	1
Hubertus Apotheke	Lanolin DAB	16302401	1
Ichthyol/Noveda	Lanolin DAB	17135101	1
ichthyol	Lanolin DAB	14334001	1
Ichthyol-Gesellschaft	Lanolin DAB	16054701	1
Jenne 20.04.20 EK:16,45	Lanolin DAB	211019L	1
Jenne	Lanolin DAB	17296501	1
Jenne	Lanolin DAB	18044101	1
Jenne	Lanolin DAB	18044301	1
Jenne	Lanolin DAB	18230201	1
Kehr	Lanolin DAB	17135201	1
Kehr	Lanolin DAB	17296501	1
Kehr	Lanolin DAB	18003635	1
Klosterring	Lanolin DAB	16302202	1
Krieger	Lanolin DAB	133266012x	1
Krieger	Lanolin DAB	17222601	2
Krieger	Lanolin DAB	19176701	1
L12	Lanolin DAB	17135101	1
L12	Lanolin DAB	17222601	1
L12	Lanolin DAB	18230302	1
Lamotte / Anzag	Lanolin DAB	8002875002	1
Lamotte / AHC	Lanolin DAB	1000010940	2
Lamotte / AHC	Lanolin DAB	8002875003	1
Lamotte / AHC	Lanolin DAB	8004134013	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte / AHD EK 6,75	Lanolin DAB	5860800	1
Lamotte GmbH	Lanolin DAB	6000746001	1
Lamotte/ Sanacorp	Lanolin DAB	15405601	1
Lamotte/ADH	Lanolin DAB	1000014901	3
Lamotte/Alliance	Lanolin DAB	5517200	1
Lamotte/Anzag	Lanolin DAB	5447700	1
Lamotte/Anzag	Lanolin DAB	8004134012	1
Lamotte/Noweda	Lanolin DAB	5152000	1
Lamotte/Noweda	Lanolin DAB	5264900	1
Lamotte/Noweda	Lanolin DAB	5375500	1
Lamotte/Noweda	Lanolin DAB	8005213004	1
Lamotte	Lanolin DAB	5651400	1
Lamotte	Lanolin DAB	5860800	1
Lamotte	Lanolin DAB	5860900	1
Lamotte	Lanolin DAB	6000746001	2
Lamotte	Lanolin DAB	600746001	1
Maros Arznei	Lanolin DAB	18044101	1
Midas	Lanolin DAB	17222601	1
Midas	Lanolin DAB	18044101	1
Midas	Lanolin DAB	18044301	1
Nachprüfung	Lanolin DAB	123456	1
Noveda	Lanolin DAB	20C19-T12-077805	1
Noweda 5.6.2019	Lanolin DAB	19000702	1
Noweda	Lanolin DAB	12065101	1
Noweda	Lanolin DAB	13102802	1
Noweda	Lanolin DAB	13227701	1
Noweda	Lanolin DAB	13345902	1
Noweda	Lanolin DAB	14032301	1
Noweda	Lanolin DAB	14165701	1
Noweda	Lanolin DAB	14333901	1
Noweda	Lanolin DAB	15255501	2
Noweda	Lanolin DAB	15255601	2
Noweda	Lanolin DAB	15405501	1
Noweda	Lanolin DAB	15C19-T02-020812	1
Noweda	Lanolin DAB	16189401	1
Noweda	Lanolin DAB	17018401	1
Noweda	Lanolin DAB	17135101	1
Noweda	Lanolin DAB	17222601	1
Noweda	Lanolin DAB	17296501	2
Noweda	Lanolin DAB	17A03-T02-040001	1
Noweda	Lanolin DAB	18044301	2
Noweda	Lanolin DAB	18107302	1
Noweda	Lanolin DAB	18230201	1
Noweda	Lanolin DAB	19071101	3
Noweda	Lanolin DAB	19071201	2
Noweda	Lanolin DAB	19176601	3
Noweda	Lanolin DAB	19225301	2
Noweda	Lanolin DAB	19267802	1
Noweda	Lanolin DAB	19J09-T09-072602	2
Noweda	Lanolin DAB	19J09-T09-072603	1
Noweda	Lanolin DAB	20000838002	1
Noweda	Lanolin DAB	20001974001	2
Noweda	Lanolin DAB	20C19-T12-077805	2
Noweda	Lanolin DAB	2100199001	1
Noweda	Lanolin DAB	7102013A	1
Phoenix 05.07.2019 4,65EUR	Lanolin DAB	18L18-T08-062838	1
Phoenix 10.04.2014	Lanolin DAB	14032001	2
Phoenix 16.06.2017 4,33EUR	Lanolin DAB	17018401	1
Phoenix WE:04.11.17 100...	Lanolin DAB	17135101	1
Phoenix	Lanolin DAB	16054901	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Lanolin DAB	16189401	1
Phoenix	Lanolin DAB	16302301	1
Phoenix	Lanolin DAB	17018503	1
Phoenix	Lanolin DAB	17018701	1
Phoenix	Lanolin DAB	1701870118044101	1
Phoenix	Lanolin DAB	17222601	1
Phoenix	Lanolin DAB	18107202	1
Phoenix	Lanolin DAB	18242801	1
Phoenix	Lanolin DAB	19071201	1
Phoenix	Lanolin DAB	19J09-T09-072603	1
Phoenix	Lanolin DAB	20000839001	1
Phoenix	Lanolin DAB	20001974001	1
Phoenix	Lanolin DAB	20004312001	1
Phoenix	Lanolin DAB	20C19-T12-077805	1
Phoenix	Lanolin DAB	20E12-T07-080152	1
Phoenix	Lanolin DAB	21002199001	1
Phoenix	Lanolin DAB	218212-T04	1
Phoenix	Lanolin DAB	3111	1
Phoenix	Lanolin DAB	3230	1
Phoenix	Lanolin DAB	3234	1
Phönix 16.10.2019	Lanolin DAB	19176601	1
Phönix Gotha	Lanolin DAB	12193901	1
Phönix Gotha	Lanolin DAB	12308802	1
Phönix Gotha	Lanolin DAB	13062401	2
Phönix Gotha	Lanolin DAB	13227701	2
Phönix Gotha	Lanolin DAB	14032101	1
Phönix Gotha	Lanolin DAB	14165901	2
Phönix Gotha	Lanolin DAB	14334001	1
Phönix Gotha	Lanolin DAB	15024201	2
Phönix Gotha	Lanolin DAB	15193401	1
Phönix Gotha	Lanolin DAB	18001870	1
Phönix Gotha	Lanolin DAB	19176701	1
phönix	Lanolin DAB		1
Phönix	Lanolin DAB	11113902	1
Phönix	Lanolin DAB	13062401	1
Phönix	Lanolin DAB	13326701	1
Phönix	Lanolin DAB	14165601	1
Phönix	Lanolin DAB	15024102	1
Phönix	Lanolin DAB	16054901	1
phönix	Lanolin DAB	16189401	2
Phönix	Lanolin DAB	16344401	1
Phönix	Lanolin DAB	17000363	1
Phönix	Lanolin DAB	17000364	1
phönix	Lanolin DAB	17135101	1
Phönix	Lanolin DAB	17222601	1
PHÖNIX	Lanolin DAB	17222601	1
Phönix	Lanolin DAB	17296601	1
PHÖNIX	Lanolin DAB	17296602	2
Phönix	Lanolin DAB	17K27-T07-050540	2
Phönix	Lanolin DAB	18230201	1
Phönix	Lanolin DAB	18230302	1
Phönix	Lanolin DAB	18325501	2
Phönix	Lanolin DAB	19071101	3
Phönix	Lanolin DAB	19071201	1
Phönix	Lanolin DAB	19176701	2
Phönix	Lanolin DAB	19267701	1
Phönix	Lanolin DAB	19H12-T03-070772	6
Phönix	Lanolin DAB	200002426001	1
Phönix	Lanolin DAB	20000839001	1
Phönix	Lanolin DAB	20004312001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
PHÖNIX	Lanolin DAB	20004312001	1
Phönix	Lanolin DAB	20E12-T07-080151	1
Phönix	Lanolin DAB	306635	2
Phönix	Lanolin DAB	3171	1
phönix	Lanolin DAB	34/AKD2	1
Phönix	Lanolin DAB	5316400	1
Raben-Apotheke Mildenau	Lanolin DAB	282976	1
Rabenapotheke	Lanolin DAB	288634	2
Reichelt	Lanolin DAB	17001447	1
Sanacorp W.E: 31.03.20...	Lanolin DAB	17222601	1
Sanacorp 31.12.14 EK 3,76	Lanolin DAB	14333602	2
Sanacorp henry lamotte ...	Lanolin DAB	8004134012	2
Sanacorp Ulm	Lanolin DAB	18325501	2
Sanacorp, 25.2.17, 4,30EUR	Lanolin DAB	16302301	1
Sanacorp,04.04.17, 4,30EUR	Lanolin DAB	17018401	1
Sanacorp/ Henry Lamotte...	Lanolin DAB	5651400	1
Sanacorp	Lanolin DAB	12193701	2
Sanacorp	Lanolin DAB	12260301	1
Sanacorp	Lanolin DAB	12308801	1
Sanacorp	Lanolin DAB	12308802	2
Sanacorp	Lanolin DAB	13062401	2
Sanacorp	Lanolin DAB	13062501	1
Sanacorp	Lanolin DAB	13227601	2
sanacorp	Lanolin DAB	14032001	1
Sanacorp	Lanolin DAB	14032301	1
sanacorp	Lanolin DAB	14165901	1
Sanacorp	Lanolin DAB	14165901	1
Sanacorp	Lanolin DAB	14333602	2
Sanacorp	Lanolin DAB	14333701	1
Sanacorp	Lanolin DAB	14334001	1
Sanacorp	Lanolin DAB	15193401	1
Sanacorp	Lanolin DAB	15255301	1
Sanacorp	Lanolin DAB	16054801	1
Sanacorp	Lanolin DAB	17000364	3
Sanacorp	Lanolin DAB	17001447	4
Sanacorp	Lanolin DAB	17018701	1
Sanacorp	Lanolin DAB	17078401	1
Sanacorp	Lanolin DAB	17135101	2
Sanacorp	Lanolin DAB	17135302	1
Sanacorp	Lanolin DAB	17222401	1
Sanacorp	Lanolin DAB	17222601	3
Sanacorp	Lanolin DAB	18003635	3
Sanacorp	Lanolin DAB	18044101	1
Sanacorp	Lanolin DAB	18230201	1
Sanacorp	Lanolin DAB	18325501	4
Sanacorp	Lanolin DAB	19000701	1
Sanacorp	Lanolin DAB	19000702	2
SANACORP	Lanolin DAB	19000702	2
Sanacorp	Lanolin DAB	19071101	1
Sanacorp	Lanolin DAB	19176601	3
Sanacorp	Lanolin DAB	19225301	1
Sanacorp	Lanolin DAB	19225302	1
Sanacorp	Lanolin DAB	19267701	2
Sanacorp	Lanolin DAB	19267802	3
Sanacorp	Lanolin DAB	20J14-T13	3
Sanacorp	Lanolin DAB	21B12-T04	1
Sanacorp	Lanolin DAB	305411	2
Sanacorp	Lanolin DAB	306634	1
Sanacorp	Lanolin DAB	306635	1
Sanacorp	Lanolin DAB	34/AKD1	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Lanolin DAB	T13-0832906	1
SanacorpWE:12.12.2016 ...	Lanolin DAB	16189401	1
SanacorpWE:27.01.2017 ...	Lanolin DAB	16302301	1
Spangro_06.11.2018	Lanolin DAB	18044301	1
Th. Geyer	Lanolin DAB	17018701	2
THCPharm/Noweda	Lanolin DAB	250696	1
UNISAN	Lanolin DAB	5651400	5
VDL	Lanolin DAB	12037301	1
VDL	Lanolin DAB	12065101/32	1
WE:06.04.2016 Phönix	Lanolin DAB	16054901	3
WE:18.03.2016 Sanacorp	Lanolin DAB	15405502	1

- 291 591 spectra from 1324 *Apo-Ident* customers from a total of 52 382 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Lanolin DAB* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Lanolin DAB* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	560	10	67 929
Type B	0	1240	0	109 993
Type C	0	5680	187	291 591

The substance/substance group *Lanolin DAB* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	98.2456 % (> 97.7193 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.5161 %)
Type C	100.0000 % (> 99.6875 %)	96.8127 % (> 96.7615 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Lanolin DAB* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Substance	Distance in main model	Distance in second-stage model
Cooling cream DAB	19.19	–
Basis Cordes® RK	32.47	–
Cooling ointment DAB 6	35.08	–
Clotrimazole 10% Cordes® RK	59.87	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Lanolin DAB* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31003	32863	10.29	25.40
31439	31439	0.00	36.55
31746	31794	3.68	26.85
31794	31794	0.00	26.46
31795	31794	2.02	27.30
31798	31794	4.07	28.08
32863	32863	0.00	27.88
34518	31794	9.09	22.74
34597	31794	2.75	22.84
34686	31794	4.18	25.14
35373	35373	0.00	22.11
35643	35643	0.00	25.08

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Lavender oil / Clary sage oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30861-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Lavender oil / Clary sage oil; Clary sage oil; Lavandulae aetheroleum; Lavender oil; Oleum salviae sclarea

Special notes

When selecting the *Lavender oil / Clary sage oil* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Lavender oil / Clary sage oil	15	15	522

Second-stage model

For differentiation of the substance/substance group *Lavender oil / Clary sage oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Lavender oil / Clary sage oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Clary sage oil	13334802	31413	40	1509218
Caelo	Clary sage oil	1431102	31668	60	20141031
Caelo	Lavender oil	12201206	30861	40	20120721
Caelo	Lavender oil	12201213	31237	30	20120721
Caelo	Lavender oil	12334514	31238	30	20121120
Caelo	Lavender oil	13252605	31416	40	20130802
Caelo	Lavender oil	13252207	31422	60	20130802
Euro OTC	Lavender oil	1312008-01	31528	60	AR-15-FG-000438-01
Euro OTC	Lavender oil	1507031	31721	60	0000010673
Euro OTC	Lavender oil	1510040	31800	60	20151119*
Euro OTC	Lavender oil	1608026	32710	40	20160902*
Euro OTC	Lavender oil	2008011	35120	40	20200929*
Euro OTC	Lavender oil	2009022	35125	40	20201007*
Fagron	Lavender oil	13D24-N01	31223	40	AR-15-FG-009308-01
Fagron	Lavender oil	15I03-B01-314158	32996	40	20150916

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 680 spectra of 15 reference samples from the substance/substance group *Lavender oil / Clary sage oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 15 different batches.

- 67 819 spectra from a total of 1398 batches from further 227 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Type B spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 610 spectra of 15 reference samples from the substance/substance group *Lavender oil / Clary sage oil*.
- Among them are spectra of independent samples from 15 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Clary sage oil	16269902	33281	40
Caelo	Clary sage oil	171087	33911	40
Bombastus	Lavender oil	21002712	36191	40
Caelo	Lavender oil	162922	32684	40
Caelo	Lavender oil	191847	34612	40
Caelo	Lavender oil	192713	34724	40
Euro OTC	Lavender oil	1601053	31997	40
Euro OTC	Lavender oil	1606004	32458	40
Euro OTC	Lavender oil	1610029	32834	40
Euro OTC	Lavender oil	1701005	32986	40
Euro OTC	Lavender oil	1706003	33597	40
Euro OTC	Lavender oil	1710038	33846	40
Euro OTC	Lavender oil	1808034	34213	40
Euro OTC	Lavender oil	2004016	35061	40
Euro OTC	Lavender oil	2109006	35761	50

- 110 703 spectra from a total of 2652 batches from further 349 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 2043 spectra from 593 *Apo-Ident* customers from 536 batches from the substance/substance group *Lavender oil / Clary sage oil*.
- Among them are spectra of independent samples from 519 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
ACM	Lavender oil	4683Pos2	1
AHC 22.08.13 EK5,83 25ml	Lavender oil	12334516	1
AHD 06.02.17 E.k:6,40	Lavender oil	16023017	1
AHD 15.10.14 EK 5,76	Lavender oil	13252220	1
AHD, 25.11.13	Lavender oil	13G11-N04	1
AHD	Lavender oil	15363302	1
AHD	Lavender oil	16292214	1
Anzag 10.04.13 ek: 5.83EUR	Lavender oil	12334510	1
Anzag 10.04.13 ek: 9,57EUR	Lavender oil	273725	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag 15.11.2012	Lavender oil	270560	1
Beiersdorf/Geibo	Lavender oil	16292214	1
Bergland Pharma / Anzag	Lavender oil	K051367	1
Bergland	Lavender oil	K700033	1
Bombastus	Lavender oil		1
Bombastus	Lavender oil	18000	1
Bombastus	Lavender oil	180004761	1
Bombastus	Lavender oil	18000582	2
Bombastus	Lavender oil	18002108	3
Bombastus	Lavender oil	18003212	2
Bombastus	Lavender oil	18004761	5
Bombastus	Lavender oil	18004853	1
Bombastus	Lavender oil	18005208	2
Bombastus	Lavender oil	18006811	1
Bombastus	Lavender oil	18006865	7
Bombastus	Lavender oil	18128204	2
Bombastus	Lavender oil	19001102	2
Bombastus	Lavender oil	19003633	3
Bombastus	Lavender oil	19004173	4
Bombastus	Lavender oil	19005998	2
Bombastus	Lavender oil	20000292	5
Bombastus	Lavender oil	20004133	1
Bombastus	Lavender oil	21001085	1
Bombastus	Lavender oil	272797	4
Bombastus	Lavender oil	273007	1
Bombastus	Lavender oil	273725	1
Bombastus	Lavender oil	273980	2
Bombastus	Lavender oil	274960	1
Bombastus	Lavender oil	275898	1
Bombastus	Lavender oil	276644	1
Bombastus	Lavender oil	276783	2
Bombastus	Lavender oil	277773	1
Bombastus	Lavender oil	279919	6
Bombastus	Lavender oil	281214	1
Bombastus	Lavender oil	281980	1
Bombastus	Lavender oil	284486	3
Bombastus	Lavender oil	287254	3
Bombastus	Lavender oil	288979	5
Bombastus	Lavender oil	290711	1
Bombastus	Lavender oil	293661	4
Bombastus	Lavender oil	295593	3
Bombastus	Lavender oil	295738	3
Bombastus	Lavender oil	295873	1
Bombastus	Lavender oil	297007	3
Bombastus	Lavender oil	297733	2
Bombastus	Lavender oil	300666	3
Bombastus	Lavender oil	301109	1
Bombastus	Lavender oil	303303	2
Bombastus	Lavender oil	303335	2
Bombastus	Lavender oil	305279	1
Bombastus	Lavender oil	306049	1
Bombastus	Lavender oil	307666	1
Bombastus	Lavender oil	307859	1
Bombastus	Lavender oil	308369	2
Bombastus	Lavender oil	308745	2
Bombastus	Lavender oil	311260	1
Bombastus	Lavender oil	311261	4
Bombastus	Lavender oil	311562	6
Caelo	Lavender oil		2
Caelo	Lavender oil	1021403	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lavender oil	11053709	3
Caelo	Lavender oil	11221308	1
Caelo	Lavender oil	11221315	1
Caelo	Lavender oil	12056802	4
Caelo	Lavender oil	12056804	2
Caelo	Lavender oil	12056809	16
Caelo	Lavender oil	12056814	5
Caelo	Lavender oil	12056815	1
Caelo	Lavender oil	12056816	2
Caelo	Lavender oil	12056821	2
Caelo	Lavender oil	12056822	9
Caelo	Lavender oil	12081301	1
Caelo	Lavender oil	12201201	1
Caelo	Lavender oil	12201206	2
Caelo	Lavender oil	12201213	2
Caelo	Lavender oil	12201215	1
Caelo	Lavender oil	123344514	1
Caelo	Lavender oil	12334501	8
Caelo	Lavender oil	12334503	3
Caelo	Lavender oil	12334507	3
Caelo	Lavender oil	12334510	7
Caelo	Lavender oil	12334513	12
Caelo	Lavender oil	12334514	6
Caelo	Lavender oil	12334516	5
Caelo	Lavender oil	1234501	1
Caelo	Lavender oil	1234514	2
Caelo	Lavender oil	123456	1
Caelo	Lavender oil	1245	1
Caelo	Lavender oil	12H15-N01	4
Caelo	Lavender oil	12H15-No1	1
Caelo	Lavender oil	13071302	1
Caelo	Lavender oil	13133703	16
Caelo	Lavender oil	13133705	2
Caelo	Lavender oil	13133706	19
Caelo	Lavender oil	13133715	14
Caelo	Lavender oil	1313375	1
Caelo	Lavender oil	13202218	1
Caelo	Lavender oil	13252201	5
Caelo	Lavender oil	13252202	7
Caelo	Lavender oil	13252204	8
Caelo	Lavender oil	13252206	3
Caelo	Lavender oil	13252207	5
Caelo	Lavender oil	13252212	1
Caelo	Lavender oil	13252218	2
Caelo	Lavender oil	13252220	9
Caelo	Lavender oil	13252224	1
Caelo	Lavender oil	13252225	4
Caelo	Lavender oil	13252603	1
Caelo	Lavender oil	13252605	1
Caelo	Lavender oil	13252607	1
Caelo	Lavender oil	13252611	2
Caelo	Lavender oil	13252616	4
Caelo	Lavender oil	13252621	2
Caelo	Lavender oil	132552218	1
Caelo	Lavender oil	13B22-No2	1
Caelo	Lavender oil	1414-B02-302035	1
Caelo	Lavender oil	14218301	3
Caelo	Lavender oil	1421831	1
Caelo	Lavender oil	14218310	2
Caelo	Lavender oil	14218311	7

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lavender oil	14218314	10
Caelo	Lavender oil	14218321	2
Caelo	Lavender oil	14218322	6
Caelo	Lavender oil	14218324	6
Caelo	Lavender oil	14A07-B02-289955	1
Caelo	Lavender oil	15043504	8
Caelo	Lavender oil	15043505	11
Caelo	Lavender oil	15043512	1
Caelo	Lavender oil	15043516	2
Caelo	Lavender oil	15043518	4
Caelo	Lavender oil	15043519	6
Caelo	Lavender oil	15043520	4
Caelo	Lavender oil	15043525	12
Caelo	Lavender oil	15043526	9
Caelo	Lavender oil	15081301	1
Caelo	Lavender oil	1510040-01	2
Caelo	Lavender oil	15111741	1
Caelo	Lavender oil	15278101	15
Caelo	Lavender oil	15278102	4
Caelo	Lavender oil	1536007	1
Caelo	Lavender oil	1536016	1
Caelo	Lavender oil	15363001	5
Caelo	Lavender oil	15363002	1
Caelo	Lavender oil	15363004	7
Caelo	Lavender oil	15363007	3
Caelo	Lavender oil	15363011	1
Caelo	Lavender oil	15363013	1
Caelo	Lavender oil	15363015	1
Caelo	Lavender oil	15363016	2
Caelo	Lavender oil	15363019	6
Caelo	Lavender oil	15363302	19
Caelo	Lavender oil	15363303	6
Caelo	Lavender oil	15363304	6
Caelo	Lavender oil	15363305	2
Caelo	Lavender oil	15363310	15
Caelo	Lavender oil	15363311	1
Caelo	Lavender oil	15C26-B02-310275	5
Caelo	Lavender oil	15C26-B02-310775	2
Caelo	Lavender oil	16023001	12
Caelo	Lavender oil	16023002	18
Caelo	Lavender oil	16023002/1270217	1
Caelo	Lavender oil	16023003	6
Caelo	Lavender oil	16023014	7
Caelo	Lavender oil	16023015	1
Caelo	Lavender oil	16023017	18
Caelo	Lavender oil	16023018	2
Caelo	Lavender oil	16081806	1
Caelo	Lavender oil	16101203	1
Caelo	Clary sage oil	16269903	1
Caelo	Lavender oil	16292205	17
Caelo	Lavender oil	16292206	14
Caelo	Lavender oil	16292207	2
Caelo	Lavender oil	16292209	5
Caelo	Lavender oil	16292211	21
Caelo	Lavender oil	16292213	1
Caelo	Lavender oil	16292214	7
Caelo	Lavender oil	16292216	12
Caelo	Lavender oil	16292217	2
Caelo	Lavender oil	1629226	1
Caelo	Lavender oil	162992216	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lavender oil	16A07-B01-32195	1
Caelo	Lavender oil	16A07-B01-32196	1
Caelo	Lavender oil	16A07-B01-325888	2
Caelo	Lavender oil	16H01-B04	1
Caelo	Lavender oil	16H01-B04-335775	1
Caelo	Lavender oil	16H01-B04-336278	4
Caelo	Lavender oil	16H01-B04-337333	1
Caelo	Lavender oil	16H01-B04-338189	1
Caelo	Lavender oil	17041502	1
Caelo	Lavender oil	17051404	1
Caelo	Lavender oil	170531810	1
Caelo	Lavender oil	1706003-01	4
Caelo	Lavender oil	1710038-01	2
Caelo	Lavender oil	171207OL/16292216	1
Caelo	Lavender oil	17132701	6
Caelo	Lavender oil	17132702	2
Caelo	Lavender oil	17132707	5
Caelo	Lavender oil	17132709	1
Caelo	Lavender oil	17132710	15
Caelo	Lavender oil	17132711	43
Caelo	Lavender oil	17132712	7
Caelo	Lavender oil	17132713	1
Caelo	Lavender oil	17244101	11
Caelo	Lavender oil	17244102	1
Caelo	Lavender oil	17244103	1
Caelo	Lavender oil	17244104	3
Caelo	Lavender oil	17244109	1
Caelo	Lavender oil	17G20-B07-342691	1
Caelo	Lavender oil	17G20-B07-342692	1
Caelo	Lavender oil	17G20-B07-344584	2
Caelo	Lavender oil	18001512	1
Caelo	Lavender oil	18002108	2
Caelo	Lavender oil	18031703	1
Caelo	Lavender oil	18066104	1
Caelo	Lavender oil	18066105	1
Caelo	Lavender oil	1812204	1
Caelo	Lavender oil	181228202	1
Caelo	Lavender oil	18127611	1
Caelo	Lavender oil	18128201	2
Caelo	Lavender oil	18128202	44
Caelo	Lavender oil	18128203	4
Caelo	Lavender oil	18128204	29
Caelo	Lavender oil	18128205	1
Caelo	Lavender oil	18128302	1
Caelo	Lavender oil	1818202	1
Caelo	Lavender oil	182190009	1
Caelo	Lavender oil	18219001	26
Caelo	Lavender oil	18219004	28
Caelo	Lavender oil	18219005	5
Caelo	Lavender oil	18219012	22
Caelo	Lavender oil	1829004	1
Caelo	Lavender oil	18326201	12
Caelo	Lavender oil	18326202	2
Caelo	Lavender oil	18326203	1
Caelo	Lavender oil	18326207	15
Caelo	Lavender oil	18326208	1
Caelo	Lavender oil	18326211	1
Caelo	Lavender oil	18326213	12
Caelo	Lavender oil	18326214	10
Caelo	Lavender oil	18326215	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lavender oil	18326216	3
Caelo	Lavender oil	18326231	1
Caelo	Lavender oil	188128202	1
Caelo	Lavender oil	18B26-B02-351906	1
Caelo	Lavender oil	18B26-B02-351972	1
Caelo	Lavender oil	18B26-B02-352706	1
Caelo	Lavender oil	191847005	2
Caelo	Lavender oil	191847007	12
Caelo	Lavender oil	191847008	9
Caelo	Lavender oil	19184701	30
Caelo	Lavender oil	191847010	26
Caelo	Lavender oil	191847011	1
Caelo	Lavender oil	19184702	9
Caelo	Lavender oil	19184703	4
Caelo	Lavender oil	191874701	1
Caelo	Lavender oil	19271301	4
Caelo	Lavender oil	200000744005	1
Caelo	Lavender oil	200001640001	1
Caelo	Lavender oil	20000744001	1
Caelo	Lavender oil	20000744002	1
Caelo	Lavender oil	20000744003	4
Caelo	Lavender oil	20000744005	2
Caelo	Lavender oil	20000744008	2
Caelo	Lavender oil	20001640001	1
Caelo	Lavender oil	20001640003	8
Caelo	Lavender oil	2000164003	1
Caelo	Lavender oil	200038028010	1
Caelo	Lavender oil	20003808005	1
Caelo	Lavender oil	20003808006	11
Caelo	Lavender oil	20003808009	3
Caelo	Lavender oil	20003808010	7
Caelo	Lavender oil	2001640003	1
Caelo	Lavender oil	21001533001	1
Caelo	Lavender oil	21001533002	1
Caelo	Lavender oil	210016270006	1
Caelo	Lavender oil	21001627002	11
Caelo	Lavender oil	21001627007	4
Caelo	Lavender oil	21001627008	1
Caelo	Lavender oil	21001627016	4
Caelo	Lavender oil	21001627022	1
Caelo	Lavender oil	213A-01990	1
Caelo	Lavender oil	2189	1
Caelo	Lavender oil	26081707	1
Caelo	Lavender oil	273289	1
Caelo	Lavender oil	276783	1
Caelo	Lavender oil	30041807	1
Caelo	Lavender oil	30081301	1
Caelo	Lavender oil	30081810	1
Caelo	Lavender oil	30081811	1
Caelo	Lavender oil	3011401	1
Caelo	Lavender oil	305279	2
Caelo	Lavender oil	305280	1
Caelo	Lavender oil	308745	2
Caelo	Lavender oil	3091207	1
Caelo	Lavender oil	31031501	1
Caelo	Lavender oil	31101803	1
Caelo	Lavender oil	311562	3
Caelo	Lavender oil	3218E-01990	1
Caelo	Lavender oil	4110E-01990	1
Caelo	Lavender oil	480435519	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lavender oil	516Q-01990	1
Caelo	Lavender oil	559621	1
Caelo	Lavender oil	617A-01990	1
Caelo	Lavender oil	7111403	1
Caelo	Lavender oil	780162	1
Caelo	Lavender oil	8061702	1
Caelo	Lavender oil	8326201	1
Caelo	Lavender oil	87(15363016)	1
Caelo	Lavender oil	911624	1
Caelo	Lavender oil	9229520	2
Caelo	Lavender oil	949399	1
Caelo	Lavender oil	L12334511	1
Caelo	Lavender oil	P-14021926/18219009	1
Caeolo / Phönix	Lavender oil	18326207	1
Caesaer/Jenne	Lavender oil	18128202	1
Caesar & Loretz GmbH / ...	Lavender oil	19184702	2
Caesar & Loretz GmbH / ...	Lavender oil	19184701	1
Caesar & Loretz GmbH / ...	Lavender oil	18326213	1
Caesar & Loretz GmbH D-...	Lavender oil	12334510	2
Caesar & Loretz GmbH, 4...	Lavender oil	11355	1
Caesar & Loretz GmbH, 4...	Lavender oil	12056804	1
Caesar & Loretz GmbH, 4...	Lavender oil	13133706	1
Caesar & Loretz GmbH/Al...	Lavender oil	21001627016	1
Caesar & Loretz GmbH/Fi...	Lavender oil	18219012	1
Caesar & Loretz GmbH/Gehe	Lavender oil	18219012	1
Caesar & Loretz GmbH/Gehe	Lavender oil	18326207	3
Caesar & Loretz GmbH/je...	Lavender oil	19184701	4
Caesar & Loretz GmbH/No...	Lavender oil	21001627002	1
Caesar & Loretz GmbH/Ph...	Lavender oil	18326207	1
Caesar & Loretz GmbH/Ph...	Lavender oil	19184701	1
Caesar & Loretz GmbH/Ph...	Lavender oil	20003808006	2
Caesar & Loretz GmbH/Sa...	Lavender oil	17244109	1
Caesar & Loretz GmbH/Sa...	Lavender oil	18326207	1
Caesar & Loretz GmbH/Sa...	Lavender oil	18326214	1
Caesar & Loretz GmbH/Sa...	Lavender oil	191847008	1
Caesar & Loretz GmbH/Sa...	Lavender oil	19184702	1
Caesar & Loretz GmbH/Sa...	Lavender oil	20003808010	1
Caesar & Loretz GmbH/Sa...	Lavender oil	9229520	1
Caesar & Loretz GmbH	Clary sage oil	17108708	1
Caesar & Loretz GmbH	Lavender oil	17132710	1
Caesar & Loretz GmbH	Lavender oil	17244101	1
Caesar & Loretz GmbH	Lavender oil	17244109	2
Caesar & Loretz GmbH	Lavender oil	18086602	1
Caesar & Loretz GmbH	Lavender oil	18219004	3
Caesar & Loretz GmbH	Lavender oil	18219005	7
Caesar & Loretz GmbH	Lavender oil	18219012	4
Caesar & Loretz GmbH	Lavender oil	18326201	3
Caesar & Loretz GmbH	Lavender oil	18326202	2
Caesar & Loretz GmbH	Lavender oil	18326207	9
Caesar & Loretz GmbH	Lavender oil	18326214	3
Caesar & Loretz GmbH	Lavender oil	18326215	1
Caesar & Loretz GmbH	Lavender oil	191847005	5
Caesar & Loretz GmbH	Lavender oil	191847007	2
Caesar & Loretz GmbH	Lavender oil	191847008	4
Caesar & Loretz GmbH	Lavender oil	19184701	11
Caesar & Loretz GmbH	Lavender oil	191847010	4
Caesar & Loretz GmbH	Lavender oil	19184702	1
Caesar & Loretz GmbH	Lavender oil	19184703	1
Caesar & Loretz GmbH	Lavender oil	20000744003	1
Caesar & Loretz GmbH	Lavender oil	20003808006	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Lavender oil	20003808010	3
Caesar & Loretz GmbH	Lavender oil	21001627002	5
Caesar & Loretz GmbH	Lavender oil	21001627006	2
Caesar & Loretz GmbH	Lavender oil	21001627016	5
Caesar & Loretz/ Noweda	Lavender oil	12056816	1
Caesar&Loretz GmbH	Lavender oil	17244104	1
Caesar&Loretz GmbH	Lavender oil	20000744003	1
Caleo/ Noweda	Lavender oil	17132710	1
calo	Lavender oil	15363016	2
Cealo/ Sanacorp	Lavender oil	17132711	1
EuRho/ AHD	Lavender oil	16292206	1
Euro OTC	Lavender oil	1177388	1
Euro OTC	Lavender oil	1210031-01	1
Euro OTC	Lavender oil	12334514	2
Euro OTC	Lavender oil	1302023-01	1
Euro OTC	Lavender oil	1503006-01	2
Euro OTC	Lavender oil	15043525	2
Euro OTC	Lavender oil	1507031-01	1
Euro OTC	Lavender oil	1510040-01	2
Euro OTC	Lavender oil	15B10-B07	1
Euro OTC	Lavender oil	160105301	1
Euro OTC	Lavender oil	1601053-01	1
Euro OTC	Lavender oil	1610029-01	3
Euro OTC	Lavender oil	16292214	1
Euro OTC	Lavender oil	1701005-01	5
Euro OTC	Lavender oil	1706003-01	1
Euro OTC	Lavender oil	1710038-02	3
Euro OTC	Lavender oil	1808034-02	7
Euro OTC	Lavender oil	191000901	1
Euro OTC	Lavender oil	1910009-01	5
Euro OTC	Lavender oil	2004016-01	2
Euro OTC	Lavender oil	2008011-01	3
Euro OTC	Lavender oil	200811-01	1
Euro OTC	Lavender oil	2009022-01	3
Euro OTC	Lavender oil	311562	1
Euro OTC	Lavender oil	B01-1974209	1
Fagron	Lavender oil	1010548	2
Fagron	Lavender oil	1061076	1
Fagron	Lavender oil	1104461	4
Fagron	Lavender oil	1177388	2
Fagron	Lavender oil	1192553	2
Fagron	Lavender oil	11F09-N07	1
Fagron	Lavender oil	11K17-N06	1
Fagron	Lavender oil	11L22-N16	4
Fagron	Lavender oil	12334516	2
Fagron	Lavender oil	1252709	1
Fagron	Lavender oil	12B16-N02	4
Fagron	Lavender oil	12D05-N02	5
Fagron	Lavender oil	12H15-N01	9
Fagron	Lavender oil	13/11-b03-289423	1
Fagron	Lavender oil	13/11-B03-289423	1
Fagron	Lavender oil	13097R	1
Fagron	Lavender oil	13B22N02	2
Fagron	Lavender oil	13B22-N02	11
Fagron	Lavender oil	13B22-NO2	1
Fagron	Lavender oil	13D24-0003	1
Fagron	Lavender oil	13D24N01	3
Fagron	Lavender oil	13D24-N01	3
Fagron	Lavender oil	13D24-NO1	1
Fagron	Lavender oil	13E30-B01	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lavender oil	13E30-B01-285543	2
Fagron	Lavender oil	13e30-b01-285544	1
Fagron	Lavender oil	13E30-B01-285544	5
Fagron	Lavender oil	13G11N04	1
Fagron	Lavender oil	13G11-N04	12
Fagron	Lavender oil	13J11B03	1
Fagron	Lavender oil	13J11-B03	4
Fagron	Lavender oil	13J11-B03-289423	6
Fagron	Lavender oil	13J11-B03-289424	1
Fagron	Lavender oil	13J11-B03-780162	1
Fagron	Lavender oil	13J11-BC3-289423	1
Fagron	Lavender oil	140120277773	1
Fagron	Lavender oil	14a07-B02	1
Fagron	Lavender oil	14A07B02	1
Fagron	Lavender oil	14A07-B02	4
Fagron	Lavender oil	14A07-B02-289955	2
Fagron	Lavender oil	14A07-B02-294930	1
Fagron	Lavender oil	14A07-B02-294931	5
Fagron	Lavender oil	14d14-b02	1
Fagron	Lavender oil	14D14B02	1
Fagron	Lavender oil	14D14-B02	5
Fagron	Lavender oil	14D14-B02-302034	5
Fagron	Lavender oil	14D14-B02-302035	1
Fagron	Lavender oil	14D14-B02-302036	1
Fagron	Lavender oil	14D-B02-302034	1
Fagron	Lavender oil	15/03-B01-314158	3
Fagron	Lavender oil	15/03-B01-317685	1
Fagron	Lavender oil	15/03-B01-317686	1
Fagron	Lavender oil	15/03-B01-317687	1
Fagron	Lavender oil	1503B01317685	1
Fagron	Lavender oil	15043518	2
Fagron	Lavender oil	15810-B07-309880	2
Fagron	Lavender oil	15b10-b07	1
Fagron	Lavender oil	15B10-B07-304078	2
Fagron	Lavender oil	15B10-B07-304079	2
Fagron	Lavender oil	15B10-B07-309880	1
Fagron	Lavender oil	15C26-B02	1
Fagron	Lavender oil	15C26-B02-310775	3
Fagron	Lavender oil	15C26-B02-314159	5
Fagron	Lavender oil	15CV26-B02-309881	1
Fagron	Lavender oil	15I03-B01-314160	2
Fagron	Lavender oil	15I03-B01-317685	2
Fagron	Lavender oil	15I03-B01-317686	1
Fagron	Lavender oil	15I03-B01-317687	3
Fagron	Lavender oil	15I03-B01-893241	1
Fagron	Lavender oil	15l03-B01-317686	2
Fagron	Lavender oil	1601311990	1
Fagron	Lavender oil	16292216	1
Fagron	Lavender oil	16A07-B01	4
Fagron	Lavender oil	16A07-B01-321295	6
Fagron	Lavender oil	16A07-B01-321296	5
Fagron	Lavender oil	16A07-B01-32195	1
Fagron	Lavender oil	16A07-B01-322523	2
Fagron	Lavender oil	16A07B01322846	1
Fagron	Lavender oil	16A07-B01-322846	3
Fagron	Lavender oil	16A07-B01-324336	3
Fagron	Lavender oil	16A07-B01-325888	3
Fagron	Lavender oil	16Ao7-B01-321296	1
Fagron	Lavender oil	16h01_b04_335505	1
Fagron	Lavender oil	16H01-B04	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lavender oil	16H01-B04-327861	4
Fagron	Lavender oil	16H01-B04-329684	1
Fagron	Lavender oil	16H01-B04-329684-201	1
Fagron	Lavender oil	16H01-B04-329685	8
Fagron	Lavender oil	16H01-B04-332352	4
Fagron	Lavender oil	16H01-B04-335505	4
Fagron	Lavender oil	16H01-B04-335506	2
Fagron	Lavender oil	16H01-B04-335775	1
Fagron	Lavender oil	16H01-B04-336278	4
Fagron	Lavender oil	16H01-B04-337333	2
Fagron	Lavender oil	16H01B04338189	1
Fagron	Lavender oil	16H01-B04-338189	3
Fagron	Lavender oil	17-B07-349416	1
Fagron	Lavender oil	17G20-B07	6
Fagron	Lavender oil	17G20-B07342691	1
Fagron	Lavender oil	17G20-B07-342691	3
Fagron	Lavender oil	17G20-b07-342692	1
Fagron	Lavender oil	17G20-B07-342692	1
Fagron	Lavender oil	17G20-B07-342693	2
Fagron	Lavender oil	17G20-B07-344584	5
Fagron	Lavender oil	17G20-B07-349416	2
Fagron	Lavender oil	17G20-B07-349417	5
Fagron	Lavender oil	17G20-B07-349418	1
Fagron	Lavender oil	1826-B02-355045	1
Fagron	Lavender oil	18826-B02-351972	1
Fagron	Lavender oil	18826-B02-352705	2
Fagron	Lavender oil	18826-B02-355045	1
Fagron	Lavender oil	18B26-B02	8
Fagron	Lavender oil	18B26-B02-351906	2
Fagron	Lavender oil	18B-26B02-351906	1
Fagron	Lavender oil	18B26-B02-351972	5
Fagron	Lavender oil	18B26-B02-352541	1
Fagron	Lavender oil	18B26-B02-352705	3
Fagron	Lavender oil	18B26-B02-352706	2
Fagron	Lavender oil	18B26-B02-352706	1
Fagron	Lavender oil	18B26-B02-355045	5
Fagron	Lavender oil	18B26-B02-652705	1
Fagron	Lavender oil	18K19-B01	2
Fagron	Lavender oil	18K19-B01-356766	5
Fagron	Lavender oil	18K19-B01-356767	2
Fagron	Lavender oil	192900-0004	1
Fagron	Lavender oil	19B20-B01-191698	1
Fagron	Lavender oil	19B20-B01-191699	7
Fagron	Lavender oil	19B20-B02-1917000	1
Fagron	Lavender oil	19L03-B01	1
Fagron	Lavender oil	19l03-B01-197428	1
Fagron	Lavender oil	19L03-B01-197428	7
Fagron	Lavender oil	19L03-B01-197429	10
Fagron	Lavender oil	19L03-B01-197432	5
Fagron	Lavender oil	20C12803201856	1
Fagron	Lavender oil	20C12-B03	1
Fagron	Lavender oil	20C12-B03-200430	5
Fagron	Lavender oil	20C-12-B03-200430	1
Fagron	Lavender oil	20C12-B03-201354	2
Fagron	Lavender oil	20C12-B03-201865	8
Fagron	Lavender oil	20C12-B03-201866	3
Fagron	Lavender oil	21D06103064279	1
Fagron	Lavender oil	2OC12-B03-201865	1
Fagron	Lavender oil	3-08427009	1
Fagron	Lavender oil	4A07-B02	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lavender oil	5013I1990	1
Fagron	Lavender oil	612211990	2
Fagron	Lavender oil	652607	1
Fagron	Lavender oil	759243	1
Fagron	Lavender oil	780162	1
Fagron	Lavender oil	794323	1
Fagron	Lavender oil	856973	1
Fagron	Lavender oil	867858	1
Fagron	Lavender oil	88(18B26-B02-352706)	1
Fagron	Lavender oil	893241	3
Fagron	Lavender oil	911624	4
Fagron	Lavender oil	949399	2
Fagron	Lavender oil	B01-1916908	1
Fagron	Lavender oil	B01-1974208	2
Fagron	Lavender oil	B03-2004300	1
Fagron	Lavender oil	B03-2004301	1
Fagron	Lavender oil	T03-0842709	2
Fagron	Lavender oil	T03-0876102	1
Fargon	Lavender oil	16A07-B01	1
Fiebi 29.09.12 ek:8,95	Lavender oil	271465	1
Fiebig	Lavender oil	18005115	1
Fiebig	Lavender oil	1812802	1
Fiebig	Lavender oil	18219005	1
Fiebig	Lavender oil	19184701	1
Fiebig	Lavender oil	266070	1
Frey & Lau / Gehe	Lavender oil	18B26-B02-352705	1
Frey & Lau GmbH/Phoenix	Lavender oil	14A07-B02-289955	1
Frey + Lau / Noweda	Lavender oil	1192553	1
Gatt-Koller	Lavender oil	1900739	1
GEHE 17.05.2014	Lavender oil	13133703	1
Gehe/EuRo	Lavender oil	1601053-01	1
Gehe	Lavender oil	11221301	1
Gehe	Lavender oil	12H15-N01	2
Gehe	Lavender oil	13252220	1
Gehe	Lavender oil	13252601	1
Gehe	Lavender oil	14A07B02294930	1
Gehe	Lavender oil	15043525	1
Gehe	Lavender oil	15363016	1
gehe	Lavender oil	15363019	1
Gehe	Lavender oil	15363302	1
Gehe	Lavender oil	15C26-B02-310275	1
Gehe	Lavender oil	16023017	1
Gehe	Lavender oil	16292211	2
Gehe	Lavender oil	16292216	1
GEHE	Lavender oil	17132710	1
Gehe	Lavender oil	17132711	2
Gehe	Lavender oil	18004761	1
Gehe	Lavender oil	18219004	1
Gehe	Lavender oil	18B26-B02-355045	1
Gehe	Lavender oil	19271301	1
Gehe	Lavender oil	19B20-B01-191699	1
Gehe	Lavender oil	19L03-B01-197428	1
Gehe	Lavender oil	20001640003	1
Gehe	Lavender oil	294180	1
Gehe	Lavender oil	306049	1
geile	Lavender oil	12334516	1
Hedinger	Lavender oil	273007	1
InfectoPharm/Noweda	Lavender oil	297733	1
Jenne	Lavender oil	192900-0003	1
Kehr	Lavender oil	16292216	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Kögl	Lavender oil	180050	1
Kögl	Lavender oil	1802634	3
Kögl	Lavender oil	20172255	2
Kögl	Lavender oil	225506172617	1
Kögl	Lavender oil	357910164416	1
Krieger	Lavender oil	18326213	1
L10/Bambastus	Lavender oil	301109	1
L10	Lavender oil	17244101	4
L12	Lavender oil	16A07-B01-322523	2
L12	Lavender oil	18128204	1
Lamotte / Gehe	Lavender oil	13E30-B01-285544	1
Noweda/EuRho 05.02.21 E...	Lavender oil	2008011-01	1
Noweda	Lavender oil		1
Noweda	Lavender oil	11221309	1
Noweda	Lavender oil	11221315	2
Noweda	Lavender oil	13252201	1
Noweda	Lavender oil	15363011	1
Noweda	Lavender oil	16H01-B04-338189	1
Noweda	Lavender oil	17132711	2
Noweda	Lavender oil	1808094-02	1
Noweda	Lavender oil	18128202	1
Noweda	Lavender oil	18219001	1
Noweda	Lavender oil	18219004	5
NOWEDA	Lavender oil	18326207	1
Noweda	Lavender oil	19B20-B01-191699	1
Noweda	Lavender oil	284691	1
Noweda	Lavender oil	293661	1
Ph/Euro	Lavender oil	1910009-01	1
PHOENIX 05.05.2014	Lavender oil	130202301	1
Phoenix 08.06.2017 6,38EUR	Lavender oil	16292211	1
Phoenix	Lavender oil	17G20-B07-342691	1
Phoenix	Lavender oil	191847008	1
Phoenix	Lavender oil	3073	1
Phönix	Lavender oil		1
Phönix	Lavender oil	11L22-N16	1
Phönix	Lavender oil	12D05-N02	1
Phönix	Lavender oil	13252220	2
PHÖNIX	Lavender oil	17132711	1
Phönix	Lavender oil	18B26-B02-355045	1
Phönix	Lavender oil	18k19-b01-356766	1
Phönix	Lavender oil	19184701	1
Phönix	Lavender oil	652607	1
phönix	Lavender oil	759243	1
Primavera/Phoenix	Lavender oil	163H26	1
Primavera/Phoenix	Clary sage oil	416L25	1
Primavera/Primavera	Lavender oil	570L24	1
Primavera/Sanacorp	Lavender oil	184G26	1
primavera	Lavender oil	1480513	1
Primavera	Lavender oil	16E27	1
Primavera	Lavender oil	8508143	1
PVL	Lavender oil	1401110	1
Retest	Lavender oil		1
Sanacorp WE: 09.04.18 E...	Lavender oil	17132710	1
Sanacorp WE:15.04.16 EK...	Lavender oil	15278101	1
Sanacorp WE11.04.17 -15...	Lavender oil	16023018	1
Sanacorp	Lavender oil	12056821	1
Sanacorp	Lavender oil	12334513	1
Sanacorp	Lavender oil	13133703	2
Sanacorp	Lavender oil	13G11-N04	1
Sanacorp	Lavender oil	15278102	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Lavender oil	15363302	1
Sanacorp	Lavender oil	16292214	1
Sanacorp	Lavender oil	17132710	1
Sanacorp	Lavender oil	17132713	1
Sanacorp	Lavender oil	1808034-02	1
Sanacorp	Lavender oil	1808034-03	1
Sanacorp	Lavender oil	18128204	3
Sanacorp	Lavender oil	18128205	1
Sanacorp	Lavender oil	18326202	1
Sanacorp	Lavender oil	18326215	2
Sanacorp	Lavender oil	19184703	2
Sanacorp	Lavender oil	301109	2
Sanacorp	Lavender oil	308369	2
Taoasis GmbH/ Taoasis	Lavender oil	S05-18-8043	2
Taoasis GmbH	Lavender oil	30560	1
Taoasis/Noweda	Lavender oil	130201-117994	1
Taoasis/Taoasis	Lavender oil	22015-123165	1
Taoasis/Taoasis	Lavender oil	30560-112844	1
Taoasis/Taoasis	Lavender oil	66179-313	1
Taoasis	Lavender oil	102366-3048	1
Taoasis	Lavender oil	130201-115396	1
Taoasis	Lavender oil	130201-115678	1
Taoasis	Lavender oil	130201-116395	2
Taoasis	Lavender oil	130201-116899	6
Taoasis	Lavender oil	16082301/2016-2908	1
Taoasis	Clary sage oil	1700-125289	1
Taoasis	Clary sage oil	18164-13377	1
Taoasis	Lavender oil	2015-2395	1
Taoasis	Lavender oil	22015-122102	1
Taoasis	Lavender oil	22015-122995	2
Taoasis	Lavender oil	30560-108326	1
Taoasis	Lavender oil	30560-110088	1
Taoasis	Lavender oil	30560-111202	1
Taoasis	Lavender oil	30560-111623	1
Taoasis	Lavender oil	30560-113018	1
Taoasis	Lavender oil	30560-113019	1
Taoasis	Lavender oil	43703-122404	1
Taoasis	Lavender oil	4651010118091	1
Taoasis	Lavender oil	4651010-118091	1
Taoasis	Lavender oil	66179-128588	1
Taoasis	Lavender oil	66179-857	2
Taoasis	Lavender oil	96336-4015	1
Taoasis	Lavender oil	LOG2014-119488	2
Taoasis	Lavender oil	LOG2014-120278	1
Taoasis	Lavender oil	LOG2014-121513	2
Taoasis	Lavender oil	RM20-13642	1
Taoasis	Lavender oil	S05-19-13374	1
VDL;15.12.14;20.19EUR	Lavender oil	12201213	1
VDl;7,53EUR;13.4.15	Lavender oil	13252611	2

- 295 415 spectra from 1324 *Apo-Ident* customers from a total of 52 459 batches from a further 342 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Lavender oil / Clary sage oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Lavender oil / Clary sage oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	680	0	67 819
Type B	0	610	0	110 703
Type C	0	2015	28	295 415

The substance/substance group *Lavender oil / Clary sage oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.1176 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.0164 %)
Type C	100.0000 % (> 99.6875 %)	98.6295 % (> 98.4826 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Lavender oil / Clary sage oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Coriander oil	32.60	–
Bergamot oil	44.64	–
Acorus oil	56.58	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Lavender oil / Clary sage oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30861	32710	17.86	56.26
31223	31223	0.00	56.61
31237	32710	17.05	63.19
31238	31721	2.66	54.49
31413	31413	0.00	70.91
31416	32710	18.02	58.32
31422	31223	1.95	57.51
31528	31528	0.00	60.72
31668	31413	7.12	69.38
31721	31721	0.00	58.64
31800	31800	0.00	57.48
32710	32710	0.00	58.06
32996	31721	3.35	50.54
35120	35120	0.00	57.21
35125	35125	0.00	57.48

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Liniment ointments**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`10002320-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Liniment ointments; Hydrated liniment SR/DAC (NRF p.40); Linimentum aquosum N (NRF S. 39); Linimentum aquosum SR/DAC (NRF S.40); Non-ionic hydrous liniment SR/DAC (NRF P. 39)

Special notes

When selecting the *Liniment ointments* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Liniment ointments	19	53	1599

Second-stage model

For differentiation of the substance/substance group *Liniment ointments* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Liniment ointments*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
apomix	Hydrated linimen...	73A041113	31170	40	1405106
apomix	Hydrated linimen...	08B010216	32305	40	20160203
apomix	Hydrated linimen...	32B090516	32727	30	20160509
Caelo	Hydrated linimen...	14063201	31438	40	20140513
Caelo	Hydrated linimen...	160217	31938	60	20160127*
Caelo	Hydrated linimen...	153244	31939	60	20150922*
Caelo	Hydrated linimen...	160217	32089	40	20160127*
Caelo	Hydrated linimen...	20001810	35111	40	20200728*
Caelo	Hydrated linimen...	21001310	35546	40	20210507*
Leyh Pharma	Hydrated linimen...	124611	30982	80	20121123
Leyh Pharma	Hydrated linimen...	191511	34505	40	20190423
Bombastus	Non-ionic hydrou...	282335	31169	40	1405256
Bombastus	Non-ionic hydrou...	297176	31830	60	20150909
Caelo	Non-ionic hydrou...	14134601	31476	40	20140516
Caelo	Non-ionic hydrou...	15420901	31827	60	20151221
Caelo	Non-ionic hydrou...	153267	31943	60	20150922*
Caelo	Non-ionic hydrou...	153342	31945	60	20151008*
Caelo	Non-ionic hydrou...	153342	31946	60	20151008*
Caelo	Non-ionic hydrou...	160216	31947	60	20160127*
Caelo	Non-ionic hydrou...	161138	32090	40	20160415*
Caelo	Non-ionic hydrou...	21002412	35615	50	20210819*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 1040 spectra of 21 reference samples from the substance/substance group *Liniment ointments*. These samples are listed above in the *calibration samples* section. The reference samples come from 19 different batches.

- 67 459 spectra from a total of 1394 batches from further 227 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 2710 spectra of 72 reference samples from the substance/substance group *Liniment ointments*.
- Among them are spectra of independent samples from 53 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
apomix	Hydrated liniment SR/DAC (NR…	48B131221	36237	40
Bombastus	Hydrated liniment SR/DAC (NR…	22001380	36213	40
Caelo	Hydrated liniment SR/DAC (NR…	161824	32395	40
Caelo	Hydrated liniment SR/DAC (NR…	171989	33572	40
Caelo	Hydrated liniment SR/DAC (NR…	173334	34014	40
Caelo	Hydrated liniment SR/DAC (NR…	181848	34158	40
Caelo	Hydrated liniment SR/DAC (NR…	192964	34780	40
Caelo	Hydrated liniment SR/DAC (NR…	20003910	35219	40
Caelo	Hydrated liniment SR/DAC (NR…	21002123	35616	50
Caelo	Hydrated liniment SR/DAC (NR…	21003572	35927	40
apomix	Non-ionic hydrous liniment S…	07B280322	36239	40
Bombastus	Non-ionic hydrous liniment S…	22000841	36203	40
Caelo	Non-ionic hydrous liniment S…	153341	31944	60
Caelo	Non-ionic hydrous liniment S…	161139	32091	40
Caelo	Non-ionic hydrous liniment S…	161140	32092	40
Caelo	Non-ionic hydrous liniment S…	161767	32398	40
Caelo	Non-ionic hydrous liniment S…	161768	32401	40
Caelo	Non-ionic hydrous liniment S…	162035	32404	40
Caelo	Non-ionic hydrous liniment S…	162181	32605	40
Caelo	Non-ionic hydrous liniment S…	162182	32609	40
Caelo	Non-ionic hydrous liniment S…	162183	32611	40
Caelo	Non-ionic hydrous liniment S…	162584	32615	40
Caelo	Non-ionic hydrous liniment S…	162585	32616	40
Caelo	Non-ionic hydrous liniment S…	163188	32874	40
Caelo	Non-ionic hydrous liniment S…	171173	33400	40
Caelo	Non-ionic hydrous liniment S…	171444	33401	40
Caelo	Non-ionic hydrous liniment S…	171446	33402	40
Caelo	Non-ionic hydrous liniment S…	171445	33403	40
Caelo	Non-ionic hydrous liniment S…	172088	33569	40
Caelo	Non-ionic hydrous liniment S…	172089	33570	40
Caelo	Non-ionic hydrous liniment S…	172090	33571	40
Caelo	Non-ionic hydrous liniment S…	172611	33746	40
Caelo	Non-ionic hydrous liniment S…	172612	33747	40
Caelo	Non-ionic hydrous liniment S…	173125	34013	40
Caelo	Non-ionic hydrous liniment S…	180507	34146	40
Caelo	Non-ionic hydrous liniment S…	180867	34147	40
Caelo	Non-ionic hydrous liniment S…	181744	34148	40
Caelo	Non-ionic hydrous liniment S…	182331	34254	40
Caelo	Non-ionic hydrous liniment S…	182789	34355	40
Caelo	Non-ionic hydrous liniment S…	192014	34782	40
Caelo	Non-ionic hydrous liniment S…	20003002	35217	40
Caelo	Non-ionic hydrous liniment S…	20003577	35218	40
Caelo	Non-ionic hydrous liniment S…	21001823	35544	50
Caelo	Non-ionic hydrous liniment S…	21001822	35545	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Non-ionic hydrous liniment S...	21003958	35926	40
Caelo	Non-ionic hydrous liniment S...	22000259	36081	40
Caelo	Non-ionic hydrous liniment S...	22000260	36082	10
Caelo	Non-ionic hydrous liniment S...	22000261	36083	10
Caelo	Non-ionic hydrous liniment S...	22001187	36464	40
Caelo	Non-ionic hydrous liniment S...	22001188	36465	10
Caelo	Non-ionic hydrous liniment S...	22001189	36466	10
Caelo	Non-ionic hydrous liniment S...	22001709	36467	40
Caelo	Non-ionic hydrous liniment S...	22001710	36468	10
apomix	Hydrated liniment SR/DAC (NR...	32B090516	32727†	10
Caelo	Hydrated liniment SR/DAC (NR...	161824	32396	40
Caelo	Hydrated liniment SR/DAC (NR...	161824	32397	40
Caelo	Hydrated liniment SR/DAC (NR...	21001310	35546†	10
Caelo	Non-ionic hydrous liniment S...	161767	32399	40
Caelo	Non-ionic hydrous liniment S...	161767	32400	40
Caelo	Non-ionic hydrous liniment S...	161768	32402	40
Caelo	Non-ionic hydrous liniment S...	161768	32403	40
Caelo	Non-ionic hydrous liniment S...	162035	32405	40
Caelo	Non-ionic hydrous liniment S...	161139	32604	40
Caelo	Non-ionic hydrous liniment S...	162181	32606	40
Caelo	Non-ionic hydrous liniment S...	162181	32607	40
Caelo	Non-ionic hydrous liniment S...	162181	32608	40
Caelo	Non-ionic hydrous liniment S...	162182	32610	40
Caelo	Non-ionic hydrous liniment S...	162183	32612	40
Caelo	Non-ionic hydrous liniment S...	162183	32613	40
Caelo	Non-ionic hydrous liniment S...	162183	32614	40
Caelo	Non-ionic hydrous liniment S...	162585	32617	40
Caelo	Non-ionic hydrous liniment S...	162585	32618	40

- 108 603 spectra from a total of 2611 batches from further 349 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 6256 spectra from 885 *Apo-Ident* customers from 1600 batches from the substance/substance group *Liniment ointments*.
- Among them are spectra of independent samples from 1557 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Non-ionic hydrous liniment S...	14350703	1
	Non-ionic hydrous liniment S...	288452	1
	Hydrated liniment SR/DAC (NR...	37B190514	1
	Non-ionic hydrous liniment S...	4A010317	1
/Noweda	Non-ionic hydrous liniment S...	281562	1
10260682	Non-ionic hydrous liniment S...	19055702	1

continued on the next page

†These spectra were recorded from material of the same package as the corresponding calibration spectra (*Type A*). Hence, these spectra are not independent and are not of *Type B*.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
18050701	Non-ionic hydrous liniment S...	17261201	1
20.05.19/AHD/Leyh Pharma	Hydrated liniment SR/DAC (NR...	191511	1
AEP	Non-ionic hydrous liniment S...	20003577001	1
AHD /LeyhPharma	Hydrated liniment SR/DAC (NR...	150321	1
AHD PKH	Hydrated liniment SR/DAC (NR...	62A021017	1
AHD/23.07.14/Leyh Pharma	Hydrated liniment SR/DAC (NR...	142231	1
AHD/Leyh Pharma/25.10.14	Hydrated liniment SR/DAC (NR...	144031	1
AHD	Non-ionic hydrous liniment S...	17144401	1
AHD	Non-ionic hydrous liniment S...	18005138	1
AHD	Non-ionic hydrous liniment S...	18006450	1
AHD	Non-ionic hydrous liniment S...	18153501	1
AHD	Non-ionic hydrous liniment S...	19001295	1
AHD	Non-ionic hydrous liniment S...	19001297	1
AHD	Non-ionic hydrous liniment S...	19002434	1
AHD	Non-ionic hydrous liniment S...	19006547	1
AHD	Non-ionic hydrous liniment S...	19006548	1
AHL	Non-ionic hydrous liniment S...	17312501	1
Alli/Leyh	Hydrated liniment SR/DAC (NR...	191021	1
Alliance Health 09.05.2...	Non-ionic hydrous liniment S...	14134601	2
Alliance health	Non-ionic hydrous liniment S...	14350703	2
Alliance	Non-ionic hydrous liniment S...	18005541	1
Alliance	Non-ionic hydrous liniment S...	19055702	1
Alliance	Hydrated liniment SR/DAC (NR...	65A250918	1
Allianz Healthcare	Non-ionic hydrous liniment S...	19136701	1
AMH Niemann GmbH & Co KG	Hydrated liniment SR/DAC (NR...	38B200720	1
AMH Niemann GmbH & Co KG	Hydrated liniment SR/DAC (NR...	46B240820	1
AMH Niemann GmbH & Co. ...	Hydrated liniment SR/DAC (NR...	28B240518	2
AMH Niemann GmbH & Co. ...	Hydrated liniment SR/DAC (NR...	45B120718	1
AMH Niemann GmbH und Co...	Hydrated liniment SR/DAC (NR...	30B040515	1
AMH Niemann/ Phoenix	Hydrated liniment SR/DAC (NR...	59B030918	1
AMH Niemann/Noweda	Hydrated liniment SR/DAC (NR...	26A130415	1
AMH Niemann/Noweda	Hydrated liniment SR/DAC (NR...	83A021214	1
AMH Niemann/Ph	Hydrated liniment SR/DAC (NR...	59B030918	2
AMH Niemann/Sanacorp	Hydrated liniment SR/DAC (NR...	46B260514	1
AMH Niemann	Hydrated liniment SR/DAC (NR...	45A200819	1
AMH NiemannGmbH&CO KG	Hydrated liniment SR/DAC (NR...	11B240220	1
Angag Leyh	Hydrated liniment SR/DAC (NR...	4580715	1
Anzag/Anzag 14.09.18	Non-ionic hydrous liniment S...	18003529	1
Anzag	Non-ionic hydrous liniment S...	16021601	1
Anzag	Non-ionic hydrous liniment S...	17027801	1
Anzag	Non-ionic hydrous liniment S...	19001298	1
Anzag	Non-ionic hydrous liniment S...	19006137	1
Anzag	Non-ionic hydrous liniment S...	20004409	1
Anzag	Non-ionic hydrous liniment S...	274016	1
Anzag	Non-ionic hydrous liniment S...	275786	1
Anzag	Non-ionic hydrous liniment S...	275788	1
Anzag	Hydrated liniment SR/DAC (NR...	30B130513	1
Anzag	Hydrated liniment SR/DAC (NR...	33A190515	1
Anzag	Hydrated liniment SR/DAC (NR...	74B081012	2
aopmix/Phoenix	Hydrated liniment SR/DAC (NR...	62A110814	1
api-ident	Non-ionic hydrous liniment S...	18050701	1
apo	Non-ionic hydrous liniment S...	23B280920	1
apo	Hydrated liniment SR/DAC (NR...	47A020919	1
apo	Hydrated liniment SR/DAC (NR...	56A240712	2
apomix	Hydrated liniment SR/DAC (NR...		1
apomix	Non-ionic hydrous liniment S...	108070420	1
apomix	Non-ionic hydrous liniment S...	10A070420	2
apomix	Hydrated liniment SR/DAC (NR...	10A080216	1
apomix	Non-ionic hydrous liniment S...	10A110515	1
apomix	Non-ionic hydrous liniment S...	10A1206013	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Non-ionic hydrous liniment S...	10A150512	2
apomix	Non-ionic hydrous liniment S...	10A150514	1
apomix	Hydrated liniment SR/DAC (NR...	10A170220	2
apomix	Hydrated liniment SR/DAC (NR...	10A25019	1
apomix	Hydrated liniment SR/DAC (NR...	10A260213	1
apomix	Hydrated liniment SR/DAC (NR...	10A260218	1
apomix	Non-ionic hydrous liniment S...	10A310516	4
apomix	Non-ionic hydrous liniment S...	10B010719	3
apomix	Hydrated liniment SR/DAC (NR...	10B160215	2
apomix	Non-ionic hydrous liniment S...	10C010719	4
apomix	Non-ionic hydrous liniment S...	10C070420	4
apomix	Non-ionic hydrous liniment S...	11A010713	3
apomix	Non-ionic hydrous liniment S...	11A040618	2
apomix	Hydrated liniment SR/DAC (NR...	11A070217	1
apomix	Hydrated liniment SR/DAC (NR...	11A110319	3
apomix	Non-ionic hydrous liniment S...	11A210420	1
apomix	Non-ionic hydrous liniment S...	11A230719	9
apomix	Hydrated liniment SR/DAC (NR...	11a270217	1
apomix	Hydrated liniment SR/DAC (NR...	11A270217	1
apomix	Hydrated liniment SR/DAC (NR...	11A270218	2
apomix	Non-ionic hydrous liniment S...	11B270515	1
apomix	Non-ionic hydrous liniment S...	11C060521	1
apomix	Non-ionic hydrous liniment S...	12A100615	3
apomix	Non-ionic hydrous liniment S...	12A100713	1
apomix	Hydrated liniment SR/DAC (NR...	12A150212	2
apomix	Non-ionic hydrous liniment S...	12a200616	1
apomix	Non-ionic hydrous liniment S...	12A200616	1
apomix	Non-ionic hydrous liniment S...	12A200819	2
apomix	Hydrated liniment SR/DAC (NR...	12A240220	3
apomix	Non-ionic hydrous liniment S...	12A270514	2
apomix	Hydrated liniment SR/DAC (NR...	12B110214	3
apomix	Hydrated liniment SR/DAC (NR...	12B180319	2
apomix	Non-ionic hydrous liniment S...	12C050520	1
apomix	Non-ionic hydrous liniment S...	13A040614	5
apomix	Non-ionic hydrous liniment S...	13A090919	5
apomix	Hydrated liniment SR/DAC (NR...	13A110214	3
apomix	Hydrated liniment SR/DAC (NR...	13A160216	1
apomix	Hydrated liniment SR/DAC (NR...	13A180319	2
apomix	Non-ionic hydrous liniment S...	13A260617	2
apomix	Non-ionic hydrous liniment S...	13a260618	1
apomix	Non-ionic hydrous liniment S...	13A260618	6
apomix	Non-ionic hydrous liniment S...	13A26068	1
apomix	Hydrated liniment SR/DAC (NR...	14A150317	1
apomix	Non-ionic hydrous liniment S...	14A180520	1
apomix	Non-ionic hydrous liniment S...	14a180716	1
apomix	Non-ionic hydrous liniment S...	14A180716	2
apomix	Hydrated liniment SR/DAC (NR...	14a190318	1
apomix	Non-ionic hydrous liniment S...	14A260617	5
apomix	Non-ionic hydrous liniment S...	14A300615	1
apomix	Non-ionic hydrous liniment S...	14B070621	1
apomix	Hydrated liniment SR/DAC (NR...	14B220216	1
apomix	Hydrated liniment SR/DAC (NR...	15A090321	2
apomix	Non-ionic hydrous liniment S...	15A110717	2
apomix	Non-ionic hydrous liniment S...	15A140714	2
apomix	Non-ionic hydrous liniment S...	15A140721	1
apomix	Non-ionic hydrous liniment S...	15A150715	3
apomix	Non-ionic hydrous liniment S...	15A170718	4
apomix	Hydrated liniment SR/DAC (NR...	15A210318	1
apomix	Hydrated liniment SR/DAC (NR...	15A250319	2
apomix	Hydrated liniment SR/DAC (NR...	15A260813	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Non-ionic hydrous liniment S…	15A300712	1
apomix	Non-ionic hydrous liniment S…	15B071019	4
apomix	Non-ionic hydrous liniment S…	15B160320	1
apomix	Non-ionic hydrous liniment S…	15C080620	2
apomix	Hydrated liniment SR/DAC (NR…	16A0101419	1
apomix	Hydrated liniment SR/DAC (NR…	16A010419	1
apomix	Non-ionic hydrous liniment S…	16A020817	3
apomix	Non-ionic hydrous liniment S…	16A040814	2
apomix	Non-ionic hydrous liniment S…	16A050815	5
apomix	Hydrated liniment SR/DAC (NR…	16A070312	2
apomix	Non-ionic hydrous liniment S…	16A080620	1
apomix	Non-ionic hydrous liniment S…	16A081019	8
apomix	Hydrated liniment SR/DAC (NR…	16A140320	1
apomix	Non-ionic hydrous liniment S…	16A170718	2
apomix	Hydrated liniment SR/DAC (NR…	16a200317	1
apomix	Hydrated liniment SR/DAC (NR…	16A200317	2
apomix	Non-ionic hydrous liniment S…	16B140721	3
apomix	Hydrated liniment SR/DAC (NR…	16B190716	1
apomix	Hydrated liniment SR/DAC (NR…	16B270318	2
apomix	Non-ionic hydrous liniment S…	17A020818	7
apomix	Hydrated liniment SR/DAC (NR…	17A030314	2
apomix	Non-ionic hydrous liniment S…	17A030912	3
apomix	Non-ionic hydrous liniment S…	17A100821	1
apomix	Non-ionic hydrous liniment S…	17A130720	1
apomix	Non-ionic hydrous liniment S…	17A140817	4
apomix	Non-ionic hydrous liniment S…	17A220816	1
apomix	Non-ionic hydrous liniment S…	17A230913	2
apomix	Hydrated liniment SR/DAC (NR…	17A270318	5
apomix	Hydrated liniment SR/DAC (NR…	17A290216	2
apomix	Hydrated liniment SR/DAC (NR…	17B050313	1
apomix	Hydrated liniment SR/DAC (NR…	17B230320	1
apomix	Hydrated liniment SR/DAC (NR…	17B270317	1
apomix	Non-ionic hydrous liniment S…	18A020218	1
apomix	Non-ionic hydrous liniment S…	18A020818	5
apomix	Non-ionic hydrous liniment S…	18A031219	1
apomix	Non-ionic hydrous liniment S…	18a070915	1
apomix	Non-ionic hydrous liniment S…	18A070915	1
apomix	Non-ionic hydrous liniment S…	18A140720	1
apomix	Non-ionic hydrous liniment S…	18A200814	1
apomix	Hydrated liniment SR/DAC (NR…	18A230320	3
apomix	Non-ionic hydrous liniment S…	18B010916	2
apomix	Hydrated liniment SR/DAC (NR…	18B030417	5
apomix	Non-ionic hydrous liniment S…	18B140720	1
apomix	Non-ionic hydrous liniment S…	19001299	1
apomix	Non-ionic hydrous liniment S…	19004234	1
apomix	Non-ionic hydrous liniment S…	190182501	1
apomix	Hydrated liniment SR/DAC (NR…	1902004-03	1
apomix	Hydrated liniment SR/DAC (NR…	1913080419	1
apomix	Non-ionic hydrous liniment S…	19A010916	2
apomix	Non-ionic hydrous liniment S…	19a040917	1
apomix	Non-ionic hydrous liniment S…	19A040917	1
apomix	Hydrated liniment SR/DAC (NR…	19A070316	1
apomix	Hydrated liniment SR/DAC (NR…	19B040417	1
apomix	Hydrated liniment SR/DAC (NR…	19B080419	2
apomix	Hydrated liniment SR/DAC (NR…	19B100314	1
apomix	Non-ionic hydrous liniment S…	19C120820	1
apomix	Hydrated liniment SR/DAC (NR…	1A020117	1
apomix	Non-ionic hydrous liniment S…	1A070119	1
apomix	Non-ionic hydrous liniment S…	1a100117	1
apomix	Non-ionic hydrous liniment S…	1A100117	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Non-ionic hydrous liniment S...	1A110121	2
apomix	Non-ionic hydrous liniment S...	1A200115	2
apomix	Hydrated liniment SR/DAC (NR...	1B130120	1
apomix	Non-ionic hydrous liniment S...	1B200120	1
apomix	Non-ionic hydrous liniment S...	20A051113	3
apomix	Hydrated liniment SR/DAC (NR...	20A100418	2
apomix	Non-ionic hydrous liniment S...	20A120820	1
apomix	Non-ionic hydrous liniment S...	20A121211	1
apomix	Hydrated liniment SR/DAC (NR...	20a150316	1
apomix	Non-ionic hydrous liniment S...	20A150914	1
apomix	Hydrated liniment SR/DAC (NR...	20A170315	1
apomix	Non-ionic hydrous liniment S...	20A221012	1
apomix	Non-ionic hydrous liniment S...	20A270818	2
apomix	Non-ionic hydrous liniment S...	20A280915	3
apomix	Non-ionic hydrous liniment S...	20A301219	3
apomix	Hydrated liniment SR/DAC (NR...	20B180313	1
apomix	Hydrated liniment SR/DAC (NR...	20B310320	1
apomix	Hydrated liniment SR/DAC (NR...	21013	1
apomix	Hydrated liniment SR/DAC (NR...	21A060519	3
apomix	Hydrated liniment SR/DAC (NR...	21A180313	2
apomix	Non-ionic hydrous liniment S...	21A241016	1
apomix	Non-ionic hydrous liniment S...	21A250917	3
apomix	Non-ionic hydrous liniment S...	22A020920	1
apomix	Non-ionic hydrous liniment S...	22A100918	6
apomix	Non-ionic hydrous liniment S...	22A101114	6
apomix	Hydrated liniment SR/DAC (NR...	22A180417	1
apomix	Hydrated liniment SR/DAC (NR...	22a210316	1
apomix	Non-ionic hydrous liniment S...	22a231017	2
apomix	Hydrated liniment SR/DAC (NR...	22A231017	1
apomix	Hydrated liniment SR/DAC (NR...	22A250314	2
apomix	Non-ionic hydrous liniment S...	22a251016	2
apomix	Hydrated liniment SR/DAC (NR...	22B060519	1
apomix	Hydrated liniment SR/DAC (NR...	23A020413	1
apomix	Non-ionic hydrous liniment S...	23A081018	2
apomix	Non-ionic hydrous liniment S...	23A111213	3
apomix	Non-ionic hydrous liniment S...	23a181115	1
apomix	Non-ionic hydrous liniment S...	23A181115	4
apomix	Hydrated liniment SR/DAC (NR...	23A240417	2
apomix	Hydrated liniment SR/DAC (NR...	23A250521	1
apomix	Hydrated liniment SR/DAC (NR...	23A270312	1
apomix	Hydrated liniment SR/DAC (NR...	23B060519	1
apomix	Hydrated liniment SR/DAC (NR...	23B080518	2
apomix	Non-ionic hydrous liniment S...	23B280920	1
apomix	Hydrated liniment SR/DAC (NR...	24A070415	2
apomix	Non-ionic hydrous liniment S...	24A0801018	1
apomix	Hydrated liniment SR/DAC (NR...	24A080518	2
apomix	Hydrated liniment SR/DAC (NR...	24A080621	1
apomix	Non-ionic hydrous liniment S...	24A081018	9
apomix	Non-ionic hydrous liniment S...	24A101212	2
apomix	Non-ionic hydrous liniment S...	24A151117	3
apomix	Non-ionic hydrous liniment S...	24A231116	3
apomix	Hydrated liniment SR/DAC (NR...	24A240417	1
apomix	Non-ionic hydrous liniment S...	24A271114	1
apomix	Non-ionic hydrous liniment S...	24A280920	1
apomix	Hydrated liniment SR/DAC (NR...	24A290316	1
apomix	Hydrated liniment SR/DAC (NR...	24A310314	1
apomix	Non-ionic hydrous liniment S...	25A021214	2
apomix	Non-ionic hydrous liniment S...	25a071217	3
apomix	Non-ionic hydrous liniment S...	25A071217	5
apomix	Non-ionic hydrous liniment S...	25a081215	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Non-ionic hydrous liniment S...	25A081215	3
apomix	Hydrated liniment SR/DAC (NR...	25A090518	2
apomix	Hydrated liniment SR/DAC (NR...	25A140519	4
apomix	Non-ionic hydrous liniment S...	25A181217	1
apomix	Non-ionic hydrous liniment S...	25A191213	3
apomix	Hydrated liniment SR/DAC (NR...	25A220413	1
apomix	Hydrated liniment SR/DAC (NR...	25A310314	2
apomix	Hydrated liniment SR/DAC (NR...	25B130415	1
apomix	Hydrated liniment SR/DAC (NR...	25B210420	1
apomix	Hydrated liniment SR/DAC (NR...	268140519	1
apomix	Hydrated liniment SR/DAC (NR...	26A020517	2
apomix	Non-ionic hydrous liniment S...	26A281215	1
apomix	Non-ionic hydrous liniment S...	26A28125	1
apomix	Hydrated liniment SR/DAC (NR...	26B140519	4
apomix	Hydrated liniment SR/DAC (NR...	26B240518	1
apomix	Hydrated liniment SR/DAC (NR...	27A050416	6
apomix	Non-ionic hydrous liniment S...	27A111218	8
apomix	Hydrated liniment SR/DAC (NR...	27A150517	1
apomix	Non-ionic hydrous liniment S...	27A181217	2
apomix	Non-ionic hydrous liniment S...	27A221214	3
apomix	Hydrated liniment SR/DAC (NR...	27A230413	1
apomix	Hydrated liniment SR/DAC (NR...	27B030619	3
apomix	Non-ionic hydrous liniment S...	27B091221	2
apomix	Hydrated liniment SR/DAC (NR...	27B230413	1
apomix	Non-ionic hydrous liniment S...	286417	1
apomix	Non-ionic hydrous liniment S...	286420	1
apomix	Hydrated liniment SR/DAC (NR...	28A030619	1
apomix	Hydrated liniment SR/DAC (NR...	28A060416	1
apomix	Non-ionic hydrous liniment S...	28A121218	2
apomix	Hydrated liniment SR/DAC (NR...	28B110520	1
apomix	Hydrated liniment SR/DAC (NR...	28B160517	4
apomix	Hydrated liniment SR/DAC (NR...	28B240518	2
apomix	Hydrated liniment SR/DAC (NR...	297052	1
apomix	Hydrated liniment SR/DAC (NR...	299338	1
apomix	Hydrated liniment SR/DAC (NR...	29A060513	1
apomix	Hydrated liniment SR/DAC (NR...	29A160517	2
apomix	Hydrated liniment SR/DAC (NR...	29A280518	1
apomix	Hydrated liniment SR/DAC (NR...	29B170619	1
apomix	Non-ionic hydrous liniment S...	2A010217	2
apomix	Non-ionic hydrous liniment S...	2A020216	5
apomix	Hydrated liniment SR/DAC (NR...	2a080118	1
apomix	Non-ionic hydrous liniment S...	2A100215	3
apomix	Hydrated liniment SR/DAC (NR...	2A120115	1
apomix	Hydrated liniment SR/DAC (NR...	2A130120	1
apomix	Non-ionic hydrous liniment S...	2A170118	2
apomix	Non-ionic hydrous liniment S...	2A200120	1
apomix	Non-ionic hydrous liniment S...	2A290119	6
apomix	Hydrated liniment SR/DAC (NR...	2B090117	1
apomix	Hydrated liniment SR/DAC (NR...	2B140119	1
apomix	Hydrated liniment SR/DAC (NR...	2B14019	1
apomix	Non-ionic hydrous liniment S...	301558	1
apomix	Hydrated liniment SR/DAC (NR...	306060	1
apomix	Hydrated liniment SR/DAC (NR...	30A280518	1
apomix	Hydrated liniment SR/DAC (NR...	30B250520	1
apomix	Hydrated liniment SR/DAC (NR...	31A040515	2
apomix	Hydrated liniment SR/DAC (NR...	31A17060619	1
apomix	Hydrated liniment SR/DAC (NR...	31A170619	1
apomix	Hydrated liniment SR/DAC (NR...	31A250520	4
apomix	Hydrated liniment SR/DAC (NR...	31A290517	2
apomix	Hydrated liniment SR/DAC (NR...	31A290518	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrated liniment SR/DAC (NR...	32A120515	1
apomix	Hydrated liniment SR/DAC (NR...	32B090620/4320	1
apomix	Hydrated liniment SR/DAC (NR...	32b180619	1
apomix	Hydrated liniment SR/DAC (NR...	32B180619	1
apomix	Hydrated liniment SR/DAC (NR...	33A070514	1
apomix	Hydrated liniment SR/DAC (NR...	33A090620	1
apomix	Hydrated liniment SR/DAC (NR...	33A190515	2
apomix	Hydrated liniment SR/DAC (NR...	33A210513	3
apomix	Hydrated liniment SR/DAC (NR...	33B120617	1
apomix	Hydrated liniment SR/DAC (NR...	33b180618	1
apomix	Hydrated liniment SR/DAC (NR...	33B180618	1
apomix	Hydrated liniment SR/DAC (NR...	34A170821	1
apomix	Hydrated liniment SR/DAC (NR...	34A180618	5
apomix	Hydrated liniment SR/DAC (NR...	34B080514	1
apomix	Hydrated liniment SR/DAC (NR...	34B120617	1
apomix	Hydrated liniment SR/DAC (NR...	34B240619	1
apomix	Hydrated liniment SR/DAC (NR...	35A080514	1
apomix	Hydrated liniment SR/DAC (NR...	35A120617	1
apomix	Hydrated liniment SR/DAC (NR...	35A170516	1
apomix	Hydrated liniment SR/DAC (NR...	35A240619	5
apomix	Hydrated liniment SR/DAC (NR...	35A290512	1
apomix	Hydrated liniment SR/DAC (NR...	36A120514	2
apomix	Hydrated liniment SR/DAC (NR...	36B060720	3
apomix	Hydrated liniment SR/DAC (NR...	36B130617	3
apomix	Hydrated liniment SR/DAC (NR...	36B250619	1
apomix	Hydrated liniment SR/DAC (NR...	36B270513	1
apomix	Hydrated liniment SR/DAC (NR...	37B010615	1
apomix	Hydrated liniment SR/DAC (NR...	37B020718	1
apomix	Hydrated liniment SR/DAC (NR...	37B080719	1
apomix	Hydrated liniment SR/DAC (NR...	38A040613	1
apomix	Hydrated liniment SR/DAC (NR...	38a060616	1
apomix	Hydrated liniment SR/DAC (NR...	38A070921	1
apomix	Hydrated liniment SR/DAC (NR...	38A080719	2
apomix	Hydrated liniment SR/DAC (NR...	38B020718	2
apomix	Hydrated liniment SR/DAC (NR...	38B190617	1
apomix	Hydrated liniment SR/DAC (NR...	39A020718	4
apomix	Hydrated liniment SR/DAC (NR...	39A190617	1
apomix	Hydrated liniment SR/DAC (NR...	39B150719	1
apomix	Non-ionic hydrous liniment S...	3A060319	7
apomix	Hydrated liniment SR/DAC (NR...	3A070114	4
apomix	Hydrated liniment SR/DAC (NR...	3a080118	1
apomix	Hydrated liniment SR/DAC (NR...	3A080118	1
apomix	Non-ionic hydrous liniment S...	3A100215	2
apomix	Non-ionic hydrous liniment S...	3A100220	3
apomix	Hydrated liniment SR/DAC (NR...	3A140119	5
apomix	Hydrated liniment SR/DAC (NR...	3B090117	1
apomix	Hydrated liniment SR/DAC (NR...	3B130115	2
apomix	Non-ionic hydrous liniment S...	3B180214	1
apomix	Hydrated liniment SR/DAC (NR...	40A030718	9
apomix	Hydrated liniment SR/DAC (NR...	40A150719	1
apomix	Hydrated liniment SR/DAC (NR...	40A170613	1
apomix	Hydrated liniment SR/DAC (NR...	40A200617	2
apomix	Hydrated liniment SR/DAC (NR...	41A080615	1
apomix	Hydrated liniment SR/DAC (NR...	41A260514	2
apomix	Hydrated liniment SR/DAC (NR...	41A270720	3
apomix	Hydrated liniment SR/DAC (NR...	41B090718	1
apomix	Hydrated liniment SR/DAC (NR...	41B140616	1
apomix	Hydrated liniment SR/DAC (NR...	41B280921	1
apomix	Hydrated liniment SR/DAC (NR...	42290719	1
apomix	Hydrated liniment SR/DAC (NR...	428140616	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrated liniment SR/DAC (NR...	42A020614	2
apomix	Hydrated liniment SR/DAC (NR...	42B030717	2
apomix	Hydrated liniment SR/DAC (NR...	42B090718	2
apomix	Hydrated liniment SR/DAC (NR...	42B140616	1
apomix	Hydrated liniment SR/DAC (NR...	42B240613	1
apomix	Hydrated liniment SR/DAC (NR...	42B280720	2
apomix	Hydrated liniment SR/DAC (NR...	43A010713	2
apomix	Hydrated liniment SR/DAC (NR...	43A090718	5
apomix	Hydrated liniment SR/DAC (NR...	43A140616	5
apomix	Hydrated liniment SR/DAC (NR...	43A290719	1
apomix	Hydrated liniment SR/DAC (NR...	43B040614	1
apomix	Hydrated liniment SR/DAC (NR...	44A040717	1
apomix	Hydrated liniment SR/DAC (NR...	44A100718	5
apomix	Hydrated liniment SR/DAC (NR...	44A120612	1
apomix	Hydrated liniment SR/DAC (NR...	44B120819	2
apomix	Hydrated liniment SR/DAC (NR...	4576872	1
apomix	Hydrated liniment SR/DAC (NR...	45A170614	1
apomix	Hydrated liniment SR/DAC (NR...	45A170820	1
apomix	Hydrated liniment SR/DAC (NR...	45A200819	3
apomix	Hydrated liniment SR/DAC (NR...	45A270606	1
apomix	Hydrated liniment SR/DAC (NR...	45A270616	3
apomix	Hydrated liniment SR/DAC (NR...	46A280616	2
apomix	Hydrated liniment SR/DAC (NR...	46A290615	1
apomix	Hydrated liniment SR/DAC (NR...	46B150713	1
apomix	Hydrated liniment SR/DAC (NR...	46B170717	1
apomix	Hydrated liniment SR/DAC (NR...	46B240820	2
apomix	Hydrated liniment SR/DAC (NR...	46B260514	1
apomix	Hydrated liniment SR/DAC (NR...	47A020919	4
apomix	Hydrated liniment SR/DAC (NR...	47a170717	1
apomix	Hydrated liniment SR/DAC (NR...	47B170614	2
apomix	Hydrated liniment SR/DAC (NR...	47B300718	2
apomix	Hydrated liniment SR/DAC (NR...	48A020712	1
apomix	Hydrated liniment SR/DAC (NR...	48A170713	1
apomix	Hydrated liniment SR/DAC (NR...	48a170717	1
apomix	Hydrated liniment SR/DAC (NR...	48A170717	1
apomix	Hydrated liniment SR/DAC (NR...	48A250820	1
apomix	Hydrated liniment SR/DAC (NR...	48A300718	2
apomix	Hydrated liniment SR/DAC (NR...	48b160919	1
apomix	Hydrated liniment SR/DAC (NR...	48B160919	5
apomix	Hydrated liniment SR/DAC (NR...	49A300718	4
apomix	Hydrated liniment SR/DAC (NR...	49B170713	1
apomix	Hydrated liniment SR/DAC (NR...	49B240717	1
apomix	Non-ionic hydrous liniment S...	4a010316	1
apomix	Non-ionic hydrous liniment S...	4A010316	2
apomix	Non-ionic hydrous liniment S...	4a010317	1
apomix	Hydrated liniment SR/DAC (NR...	4A090117	1
apomix	Hydrated liniment SR/DAC (NR...	4A110112	1
apomix	Non-ionic hydrous liniment S...	4a190218	1
apomix	Non-ionic hydrous liniment S...	4A190218	3
apomix	Non-ionic hydrous liniment S...	4A250214	2
apomix	Non-ionic hydrous liniment S...	4A250220	1
apomix	Hydrated liniment SR/DAC (NR...	4A270120	1
apomix	Hydrated liniment SR/DAC (NR...	50A130715	1
apomix	Hydrated liniment SR/DAC (NR...	50A160919	1
apomix	Hydrated liniment SR/DAC (NR...	51A130716	1
apomix	Hydrated liniment SR/DAC (NR...	51A230713	3
apomix	Hydrated liniment SR/DAC (NR...	51B060818	1
apomix	Hydrated liniment SR/DAC (NR...	51B170712	2
apomix	Hydrated liniment SR/DAC (NR...	51B230919	3
apomix	Hydrated liniment SR/DAC (NR...	52A060818	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrated liniment SR/DAC (NR...	52a130716	1
apomix	Hydrated liniment SR/DAC (NR...	52A220920	1
apomix	Hydrated liniment SR/DAC (NR...	52A230919	2
apomix	Hydrated liniment SR/DAC (NR...	52A23919	1
apomix	Hydrated liniment SR/DAC (NR...	53030815	1
apomix	Hydrated liniment SR/DAC (NR...	53A060818	1
apomix	Hydrated liniment SR/DAC (NR...	53B140716	1
apomix	Hydrated liniment SR/DAC (NR...	54A030815	1
apomix	Hydrated liniment SR/DAC (NR...	54A210817	1
apomix	Hydrated liniment SR/DAC (NR...	55A040815	1
apomix	Hydrated liniment SR/DAC (NR...	55A221019	1
apomix	Hydrated liniment SR/DAC (NR...	55A250716	2
apomix	Hydrated liniment SR/DAC (NR...	55B121020	1
apomix	Hydrated liniment SR/DAC (NR...	56A120813	1
apomix	Hydrated liniment SR/DAC (NR...	56A130818	2
apomix	Hydrated liniment SR/DAC (NR...	56A240712	1
apomix	Hydrated liniment SR/DAC (NR...	56B100815	1
apomix	Hydrated liniment SR/DAC (NR...	56B210817	1
apomix	Hydrated liniment SR/DAC (NR...	56B221019	3
apomix	Hydrated liniment SR/DAC (NR...	57a010816	1
apomix	Hydrated liniment SR/DAC (NR...	57A041119	1
apomix	Hydrated liniment SR/DAC (NR...	57a070917	1
apomix	Hydrated liniment SR/DAC (NR...	57A070917	1
apomix	Hydrated liniment SR/DAC (NR...	57B030918	2
apomix	Hydrated liniment SR/DAC (NR...	58A010812	1
apomix	Hydrated liniment SR/DAC (NR...	58A010816	1
apomix	Hydrated liniment SR/DAC (NR...	58a180815	1
apomix	Hydrated liniment SR/DAC (NR...	59A050814	1
apomix	Hydrated liniment SR/DAC (NR...	59A261020	3
apomix	Hydrated liniment SR/DAC (NR...	59B030918	3
apomix	Hydrated liniment SR/DAC (NR...	59B180917	1
apomix	Non-ionic hydrous liniment S...	5A110315	1
apomix	Non-ionic hydrous liniment S...	5a120318	1
apomix	Non-ionic hydrous liniment S...	5A120318	3
apomix	Hydrated liniment SR/DAC (NR...	5A150118	3
apomix	Non-ionic hydrous liniment S...	5A150419	2
apomix	Hydrated liniment SR/DAC (NR...	5A210110	1
apomix	Hydrated liniment SR/DAC (NR...	5A210113	2
apomix	Hydrated liniment SR/DAC (NR...	5B030220	1
apomix	Hydrated liniment SR/DAC (NR...	5B040219	1
apomix	Non-ionic hydrous liniment S...	5B170414	2
apomix	Hydrated liniment SR/DAC (NR...	5B250121	1
apomix	Hydrated liniment SR/DAC (NR...	60A020812	1
apomix	Hydrated liniment SR/DAC (NR...	60A150816	9
apomix	Hydrated liniment SR/DAC (NR...	60A180917	1
apomix	Hydrated liniment SR/DAC (NR...	60B021219	2
apomix	Hydrated liniment SR/DAC (NR...	60B040918	2
apomix	Hydrated liniment SR/DAC (NR...	60B171120	1
apomix	Hydrated liniment SR/DAC (NR...	61A010915	1
apomix	Hydrated liniment SR/DAC (NR...	61A110814	1
apomix	Hydrated liniment SR/DAC (NR...	61B021017	1
apomix	Hydrated liniment SR/DAC (NR...	62A021017	3
apomix	Hydrated liniment SR/DAC (NR...	62A110814	1
apomix	Hydrated liniment SR/DAC (NR...	62A170918	2
apomix	Hydrated liniment SR/DAC (NR...	62B050913	1
apomix	Hydrated liniment SR/DAC (NR...	638091219	1
apomix	Hydrated liniment SR/DAC (NR...	63A120814	1
apomix	Hydrated liniment SR/DAC (NR...	63A170918	2
apomix	Hydrated liniment SR/DAC (NR...	63B050916	1
apomix	Hydrated liniment SR/DAC (NR...	63B091219	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrated liniment SR/DAC (NR...	64A050916	2
apomix	Hydrated liniment SR/DAC (NR...	64a091017	1
apomix	Hydrated liniment SR/DAC (NR...	64A091017	2
apomix	Hydrated liniment SR/DAC (NR...	64A140915	2
apomix	Hydrated liniment SR/DAC (NR...	64A240918	4
apomix	Hydrated liniment SR/DAC (NR...	65a060916	2
apomix	Hydrated liniment SR/DAC (NR...	65A060916	1
apomix	Hydrated liniment SR/DAC (NR...	65B221019	2
apomix	Hydrated liniment SR/DAC (NR...	65B290812	2
apomix	Hydrated liniment SR/DAC (NR...	66A161017	2
apomix	Hydrated liniment SR/DAC (NR...	66A210915	2
apomix	Hydrated liniment SR/DAC (NR...	66b120916	1
apomix	Hydrated liniment SR/DAC (NR...	67A010914	4
apomix	Hydrated liniment SR/DAC (NR...	67A220915	1
apomix	Hydrated liniment SR/DAC (NR...	68A080914	1
apomix	Hydrated liniment SR/DAC (NR...	68A300913	1
apomix	Hydrated liniment SR/DAC (NR...	68A301017	1
apomix	Hydrated liniment SR/DAC (NR...	68B210915	1
apomix	Hydrated liniment SR/DAC (NR...	69A120912	2
apomix	Hydrated liniment SR/DAC (NR...	69A200916	3
apomix	Hydrated liniment SR/DAC (NR...	69A220915	1
apomix	Hydrated liniment SR/DAC (NR...	69B051118	2
apomix	Hydrated liniment SR/DAC (NR...	69B071013	2
apomix	Hydrated liniment SR/DAC (NR...	6A010322	1
apomix	Non-ionic hydrous liniment S...	6A080413	1
apomix	Non-ionic hydrous liniment S...	6A090320	6
apomix	Non-ionic hydrous liniment S...	6a120318	1
apomix	Non-ionic hydrous liniment S...	6A120318	4
apomix	Hydrated liniment SR/DAC (NR...	6A180112	1
apomix	Hydrated liniment SR/DAC (NR...	6A2000114	1
apomix	Hydrated liniment SR/DAC (NR...	6A200114	1
apomix	Non-ionic hydrous liniment S...	6A290317	2
apomix	Non-ionic hydrous liniment S...	6A310316	4
apomix	Non-ionic hydrous liniment S...	6B010321	2
apomix	Non-ionic hydrous liniment S...	6B180315	2
apomix	Hydrated liniment SR/DAC (NR...	70A071013	2
apomix	Hydrated liniment SR/DAC (NR...	70A201117	3
apomix	Hydrated liniment SR/DAC (NR...	71A051015	3
apomix	Hydrated liniment SR/DAC (NR...	71A291013	2
apomix	Hydrated liniment SR/DAC (NR...	72A011012	1
apomix	Hydrated liniment SR/DAC (NR...	72A031218	3
apomix	Hydrated liniment SR/DAC (NR...	72A041217	1
apomix	Hydrated liniment SR/DAC (NR...	72a101016	1
apomix	Hydrated liniment SR/DAC (NR...	72A220914	1
apomix	Hydrated liniment SR/DAC (NR...	72a270916	1
apomix	Hydrated liniment SR/DAC (NR...	72A270916	4
apomix	Hydrated liniment SR/DAC (NR...	72B041113	2
apomix	Hydrated liniment SR/DAC (NR...	73A041217	3
apomix	Hydrated liniment SR/DAC (NR...	73A101016	1
apomix	Hydrated liniment SR/DAC (NR...	73B101218	3
apomix	Hydrated liniment SR/DAC (NR...	73B131014	1
apomix	Hydrated liniment SR/DAC (NR...	74A131014	1
apomix	Hydrated liniment SR/DAC (NR...	74B111016	1
apomix	Hydrated liniment SR/DAC (NR...	74B271217	2
apomix	Hydrated liniment SR/DAC (NR...	75A131113	1
apomix	Hydrated liniment SR/DAC (NR...	75A171218	1
apomix	Hydrated liniment SR/DAC (NR...	75A271217	1
apomix	Hydrated liniment SR/DAC (NR...	75B191016	1
apomix	Hydrated liniment SR/DAC (NR...	76A031115	1
apomix	Hydrated liniment SR/DAC (NR...	76A271014	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrated liniment SR/DAC (NR...	76B1611012	1
apomix	Hydrated liniment SR/DAC (NR...	77A251113	2
apomix	Non-ionic hydrous liniment S...	78280322	1
apomix	Hydrated liniment SR/DAC (NR...	78A161115	2
apomix	Hydrated liniment SR/DAC (NR...	79011215	1
apomix	Hydrated liniment SR/DAC (NR...	79A091213	4
apomix	Hydrated liniment SR/DAC (NR...	7A040220	1
apomix	Non-ionic hydrous liniment S...	7A070320	3
apomix	Non-ionic hydrous liniment S...	7A170414	2
apomix	Hydrated liniment SR/DAC (NR...	7A250116	1
apomix	Non-ionic hydrous liniment S...	7A300321	1
apomix	Non-ionic hydrous liniment S...	7A300419	5
apomix	Hydrated liniment SR/DAC (NR...	7B050218	1
apomix	Hydrated liniment SR/DAC (NR...	7B060217	1
apomix	Hydrated liniment SR/DAC (NR...	80A061112	1
apomix	Hydrated liniment SR/DAC (NR...	80A211116	2
apomix	Hydrated liniment SR/DAC (NR...	80A241114	1
apomix	Hydrated liniment SR/DAC (NR...	81A161213	1
apomix	Hydrated liniment SR/DAC (NR...	81A211116	7
apomix	Hydrated liniment SR/DAC (NR...	81A251114	1
apomix	Hydrated liniment SR/DAC (NR...	81B071215	1
apomix	Hydrated liniment SR/DAC (NR...	83A071112	1
apomix	Hydrated liniment SR/DAC (NR...	83B051216	2
apomix	Hydrated liniment SR/DAC (NR...	84a141215	1
apomix	Hydrated liniment SR/DAC (NR...	84A271216	2
apomix	Hydrated liniment SR/DAC (NR...	84B021214	1
apomix	Hydrated liniment SR/DAC (NR...	85A091214	1
apomix	Hydrated liniment SR/DAC (NR...	85A281112	1
apomix	Hydrated liniment SR/DAC (NR...	85A281215	2
apomix	Hydrated liniment SR/DAC (NR...	86A161214	1
apomix	Hydrated liniment SR/DAC (NR...	88A061211	1
apomix	Hydrated liniment SR/DAC (NR...	88A161214	1
apomix	Hydrated liniment SR/DAC (NR...	8A050218	3
apomix	Hydrated liniment SR/DAC (NR...	8a070217	1
apomix	Hydrated liniment SR/DAC (NR...	8A070217	1
apomix	Non-ionic hydrous liniment S...	8A080415	1
apomix	Non-ionic hydrous liniment S...	8a100516	1
apomix	Non-ionic hydrous liniment S...	8A100516	4
apomix	Non-ionic hydrous liniment S...	8A170412	1
apomix	Non-ionic hydrous liniment S...	8A250417	2
apomix	Hydrated liniment SR/DAC (NR...	90A171212	1
apomix	Hydrated liniment SR/DAC (NR...	9A010216	4
apomix	Hydrated liniment SR/DAC (NR...	9A020215	1
apomix	Non-ionic hydrous liniment S...	9A120619	2
apomix	Non-ionic hydrous liniment S...	9A190516	3
apomix	Non-ionic hydrous liniment S...	9A230518	5
apomix	Hydrated liniment SR/DAC (NR...	9A270114	1
apomix	Non-ionic hydrous liniment S...	9A290513	1
apomix	Hydrated liniment SR/DAC (NR...	9B170220	1
apomix	Hydrated liniment SR/DAC (NR...	9B25019	1
apomix	Hydrated liniment SR/DAC (NR...	9B250219	1
apomix	Non-ionic hydrous liniment S...	A150914	1
apomix	Non-ionic hydrous liniment S...	apomix	1
apomix	Hydrated liniment SR/DAC (NR...	CHB12B190318	1
aponorm/WEPA	Non-ionic hydrous liniment S...	18003534	1
Audor Pharma	Non-ionic hydrous liniment S...	17312601	1
Beiersdorf/Kehr	Non-ionic hydrous liniment S...	302849	1
Bomastus Werke	Hydrated liniment SR/DAC (NR...	307264	1
Bomastus Werke	Hydrated liniment SR/DAC (NR...	307265	1
Bomastus/Noweda	Non-ionic hydrous liniment S...	19005453	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bomastus/Phönix	Non-ionic hydrous liniment S…	290610	1
Bomastus	Hydrated liniment SR/DAC (NR…	19003408	1
Bomastus	Non-ionic hydrous liniment S…	19004514	1
bomb	Non-ionic hydrous liniment S…	18005144	1
Bombaltus/Sanac	Non-ionic hydrous liniment S…	279498	1
Bombas/Phoenix	Non-ionic hydrous liniment S…	19002805	1
Bombast/Phön	Non-ionic hydrous liniment S…	19006549	1
BOMBASTU Gehe 29:01.18	Non-ionic hydrous liniment S…	170011409	1
Bombastu/ Noweda	Non-ionic hydrous liniment S…	309802	1
Bombastus	Hydrated liniment SR/DAC (NR…		8
Bombastus	Hydrated liniment SR/DAC (NR…	10025682	1
Bombastus	Non-ionic hydrous liniment S…	108006454	1
Bombastus	Non-ionic hydrous liniment S…	131648	1
Bombastus	Non-ionic hydrous liniment S…	15192502	1
Bombastus	Non-ionic hydrous liniment S…	15421002	1
Bombastus	Non-ionic hydrous liniment S…	16318801	1
Bombastus	Hydrated liniment SR/DAC (NR…	17000556	1
Bombastus	Hydrated liniment SR/DAC (NR…	17000557	5
Bombastus	Hydrated liniment SR/DAC (NR…	17000558	4
Bombastus	Hydrated liniment SR/DAC (NR…	17000559	2
Bombastus	Hydrated liniment SR/DAC (NR…	17000560	7
Bombastus	Non-ionic hydrous liniment S…	17000574	2
Bombastus	Non-ionic hydrous liniment S…	17000575	1
Bombastus	Non-ionic hydrous liniment S…	17000577	12
Bombastus	Non-ionic hydrous liniment S…	17001403	4
Bombastus	Non-ionic hydrous liniment S…	17001405	5
Bombastus	Non-ionic hydrous liniment S…	17001406	1
Bombastus	Non-ionic hydrous liniment S…	17001407	2
Bombastus	Non-ionic hydrous liniment S…	17001408	2
Bombastus	Non-ionic hydrous liniment S…	17001409	10
Bombastus	Non-ionic hydrous liniment S…	17001410	7
Bombastus	Non-ionic hydrous liniment S…	17001411	6
Bombastus	Non-ionic hydrous liniment S…	17001412	8
Bombastus	Hydrated liniment SR/DAC (NR…	17001837	3
Bombastus	Hydrated liniment SR/DAC (NR…	17001838	3
Bombastus	Hydrated liniment SR/DAC (NR…	17001839	2
Bombastus	Hydrated liniment SR/DAC (NR…	17001840	3
Bombastus	Hydrated liniment SR/DAC (NR…	17001841	13
Bombastus	Hydrated liniment SR/DAC (NR…	171207WL/310644	1
Bombastus	Hydrated liniment SR/DAC (NR…	171229WL/310644	1
Bombastus	Non-ionic hydrous liniment S…	17144502	1
Bombastus	Non-ionic hydrous liniment S…	17208901	1
Bombastus	Non-ionic hydrous liniment S…	18(310355)	1
Bombastus	Non-ionic hydrous liniment S…	180000058	1
Bombastus	Non-ionic hydrous liniment S…	18000054	1
Bombastus	Non-ionic hydrous liniment S…	18000055	4
Bombastus	Non-ionic hydrous liniment S…	18000056	4
Bombastus	Non-ionic hydrous liniment S…	18000057	6
Bombastus	Non-ionic hydrous liniment S…	18000058	16
Bombastus	Non-ionic hydrous liniment S…	18000059	16
Bombastus	Hydrated liniment SR/DAC (NR…	180004545	1
Bombastus	Non-ionic hydrous liniment S…	1800059	2
Bombastus	Hydrated liniment SR/DAC (NR…	18001654	3
Bombastus	Hydrated liniment SR/DAC (NR…	18001655	5
Bombastus	Hydrated liniment SR/DAC (NR…	18001656	1
Bombastus	Hydrated liniment SR/DAC (NR…	18001657	8
Bombastus	Hydrated liniment SR/DAC (NR…	18001658	8
Bombastus	Hydrated liniment SR/DAC (NR…	18001659	5
Bombastus	Hydrated liniment SR/DAC (NR…	18001660	10
Bombastus	Non-ionic hydrous liniment S…	18001761	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Non-ionic hydrous liniment S...	18001762	2
Bombastus	Non-ionic hydrous liniment S...	18001764	2
Bombastus	Non-ionic hydrous liniment S...	18001766	2
Bombastus	Non-ionic hydrous liniment S...	18001767	9
Bombastus	Non-ionic hydrous liniment S...	18001768	6
Bombastus	Non-ionic hydrous liniment S...	18002331	2
Bombastus	Non-ionic hydrous liniment S...	18002332	2
Bombastus	Non-ionic hydrous liniment S...	18002333	5
Bombastus	Non-ionic hydrous liniment S...	18002335	19
Bombastus	Non-ionic hydrous liniment S...	18002355	1
Bombastus	Non-ionic hydrous liniment S...	18002884	4
Bombastus	Non-ionic hydrous liniment S...	18002885	8
Bombastus	Non-ionic hydrous liniment S...	18002886	6
Bombastus	Non-ionic hydrous liniment S...	18002887	18
Bombastus	Hydrated liniment SR/DAC (NR...	18002956	3
Bombastus	Hydrated liniment SR/DAC (NR...	18002957	2
Bombastus	Hydrated liniment SR/DAC (NR...	18002958	4
Bombastus	Hydrated liniment SR/DAC (NR...	18002959	5
Bombastus	Hydrated liniment SR/DAC (NR...	18002960	1
Bombastus	Hydrated liniment SR/DAC (NR...	18002961	13
Bombastus	Non-ionic hydrous liniment S...	18003527	1
Bombastus	Non-ionic hydrous liniment S...	18003529	2
Bombastus	Non-ionic hydrous liniment S...	18003530	2
Bombastus	Non-ionic hydrous liniment S...	18003531	3
Bombastus	Non-ionic hydrous liniment S...	18003532	8
Bombastus	Non-ionic hydrous liniment S...	18003533	6
Bombastus	Non-ionic hydrous liniment S...	18003534	9
Bombastus	Non-ionic hydrous liniment S...	18004182	1
Bombastus	Non-ionic hydrous liniment S...	18004183	1
Bombastus	Non-ionic hydrous liniment S...	18004184	1
Bombastus	Non-ionic hydrous liniment S...	18004185	4
Bombastus	Non-ionic hydrous liniment S...	18004187	2
Bombastus	Non-ionic hydrous liniment S...	18004188	3
Bombastus	Non-ionic hydrous liniment S...	18004190	12
Bombastus	Non-ionic hydrous liniment S...	18004191	8
Bombastus	Hydrated liniment SR/DAC (NR...	18004545	5
Bombastus	Hydrated liniment SR/DAC (NR...	18004546	10
Bombastus	Hydrated liniment SR/DAC (NR...	18004547	11
Bombastus	Hydrated liniment SR/DAC (NR...	18004548	11
Bombastus	Non-ionic hydrous liniment S...	18005137	1
Bombastus	Non-ionic hydrous liniment S...	18005139	3
Bombastus	Non-ionic hydrous liniment S...	18005140	3
Bombastus	Non-ionic hydrous liniment S...	18005142	2
Bombastus	Non-ionic hydrous liniment S...	18005143	6
Bombastus	Non-ionic hydrous liniment S...	18005144	12
Bombastus	Non-ionic hydrous liniment S...	18005145	7
Bombastus	Non-ionic hydrous liniment S...	18005536	2
Bombastus	Non-ionic hydrous liniment S...	18005539	2
Bombastus	Non-ionic hydrous liniment S...	18005540	1
Bombastus	Non-ionic hydrous liniment S...	18005541	8
Bombastus	Hydrated liniment SR/DAC (NR...	18005582	2
Bombastus	Hydrated liniment SR/DAC (NR...	18005583	5
Bombastus	Hydrated liniment SR/DAC (NR...	18005584	4
Bombastus	Hydrated liniment SR/DAC (NR...	18005585	5
Bombastus	Hydrated liniment SR/DAC (NR...	18005586	11
Bombastus	Non-ionic hydrous liniment S...	18006449	8
Bombastus	Non-ionic hydrous liniment S...	18006450	5
Bombastus	Non-ionic hydrous liniment S...	18006451	6
Bombastus	Non-ionic hydrous liniment S...	18006452	4
Bombastus	Non-ionic hydrous liniment S...	18006453	12

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Non-ionic hydrous liniment S...	18006454	25
Bombastus	Hydrated liniment SR/DAC (NR...	18006888	3
Bombastus	Hydrated liniment SR/DAC (NR...	18006889	18
Bombastus	Hydrated liniment SR/DAC (NR...	18006890	10
Bombastus	Hydrated liniment SR/DAC (NR...	18006980	1
Bombastus	Hydrated liniment SR/DAC (NR...	180305WL/307264	1
Bombastus	Non-ionic hydrous liniment S...	18174401	1
Bombastus	Non-ionic hydrous liniment S...	19(17000575)	1
Bombastus	Non-ionic hydrous liniment S...	19000518	1
Bombastus	Non-ionic hydrous liniment S...	19000519	3
Bombastus	Non-ionic hydrous liniment S...	19000520	2
Bombastus	Non-ionic hydrous liniment S...	19000521	13
Bombastus	Non-ionic hydrous liniment S...	19001224	1
Bombastus	Non-ionic hydrous liniment S...	19001293	1
Bombastus	Non-ionic hydrous liniment S...	19001295	5
Bombastus	Non-ionic hydrous liniment S...	19001296	2
Bombastus	Non-ionic hydrous liniment S...	19001297	3
Bombastus	Non-ionic hydrous liniment S...	19001298	22
Bombastus	Non-ionic hydrous liniment S...	19001299	22
Bombastus	Hydrated liniment SR/DAC (NR...	19001957	7
Bombastus	Hydrated liniment SR/DAC (NR...	19001958	14
Bombastus	Hydrated liniment SR/DAC (NR...	19001959	6
Bombastus	Hydrated liniment SR/DAC (NR...	19001960	8
Bombastus	Hydrated liniment SR/DAC (NR...	19001961	13
Bombastus	Non-ionic hydrous liniment S...	19002435	2
Bombastus	Non-ionic hydrous liniment S...	19002436	5
Bombastus	Non-ionic hydrous liniment S...	19002437	4
Bombastus	Non-ionic hydrous liniment S...	19002438	1
Bombastus	Non-ionic hydrous liniment S...	19002439	4
Bombastus	Non-ionic hydrous liniment S...	19002440	11
Bombastus	Non-ionic hydrous liniment S...	19002441	7
Bombastus	Non-ionic hydrous liniment S...	19002801	5
Bombastus	Non-ionic hydrous liniment S...	19002802	3
Bombastus	Non-ionic hydrous liniment S...	19002803	1
Bombastus	Non-ionic hydrous liniment S...	19002804	1
Bombastus	Non-ionic hydrous liniment S...	19002805	10
Bombastus	Non-ionic hydrous liniment S...	19002806	12
Bombastus	Non-ionic hydrous liniment S...	19002842	1
Bombastus	Hydrated liniment SR/DAC (NR...	19002913	1
Bombastus	Hydrated liniment SR/DAC (NR...	19002914	7
Bombastus	Non-ionic hydrous liniment S...	19003329	1
Bombastus	Non-ionic hydrous liniment S...	19003330	3
Bombastus	Non-ionic hydrous liniment S...	19003331	1
Bombastus	Non-ionic hydrous liniment S...	19003332	1
Bombastus	Hydrated liniment SR/DAC (NR...	19003333	11
Bombastus	Non-ionic hydrous liniment S...	19003334	5
Bombastus	Non-ionic hydrous liniment S...	19003335	7
Bombastus	Hydrated liniment SR/DAC (NR...	19003404	6
Bombastus	Hydrated liniment SR/DAC (NR...	19003405	7
Bombastus	Hydrated liniment SR/DAC (NR...	19003406	1
Bombastus	Hydrated liniment SR/DAC (NR...	19003407	8
Bombastus	Hydrated liniment SR/DAC (NR...	19003408	13
Bombastus	Non-ionic hydrous liniment S...	19004230	1
Bombastus	Non-ionic hydrous liniment S...	19004232	2
Bombastus	Non-ionic hydrous liniment S...	19004233	3
Bombastus	Non-ionic hydrous liniment S...	19004234	21
Bombastus	Non-ionic hydrous liniment S...	19004264	1
Bombastus	Hydrated liniment SR/DAC (NR...	19004637	3
Bombastus	Hydrated liniment SR/DAC (NR...	19004638	4
Bombastus	Hydrated liniment SR/DAC (NR...	19004640	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrated liniment SR/DAC (NR...	19004641	7
Bombastus	Hydrated liniment SR/DAC (NR...	19004642	12
Bombastus	Non-ionic hydrous liniment S...	19004810	2
Bombastus	Non-ionic hydrous liniment S...	19004811	1
Bombastus	Non-ionic hydrous liniment S...	19004812	1
Bombastus	Non-ionic hydrous liniment S...	19004813	3
Bombastus	Non-ionic hydrous liniment S...	19004814	18
Bombastus	Non-ionic hydrous liniment S...	19004815	11
Bombastus	Non-ionic hydrous liniment S...	19005449	1
Bombastus	Non-ionic hydrous liniment S...	19005450	4
Bombastus	Non-ionic hydrous liniment S...	19005451	1
Bombastus	Non-ionic hydrous liniment S...	19005453	13
Bombastus	Non-ionic hydrous liniment S...	19006134	1
Bombastus	Non-ionic hydrous liniment S...	19006135	3
Bombastus	Non-ionic hydrous liniment S...	19006136	3
Bombastus	Non-ionic hydrous liniment S...	19006137	18
Bombastus	Hydrated liniment SR/DAC (NR...	19006509	4
Bombastus	Hydrated liniment SR/DAC (NR...	19006510	3
Bombastus	Hydrated liniment SR/DAC (NR...	19006511	9
Bombastus	Hydrated liniment SR/DAC (NR...	19006512	6
Bombastus	Hydrated liniment SR/DAC (NR...	19006513	1
Bombastus	Hydrated liniment SR/DAC (NR...	19006514	8
Bombastus	Non-ionic hydrous liniment S...	19006547	2
Bombastus	Non-ionic hydrous liniment S...	19006549	9
Bombastus	Non-ionic hydrous liniment S...	19006550	4
Bombastus	Non-ionic hydrous liniment S...	1902806	1
Bombastus	Hydrated liniment SR/DAC (NR...	190420904	1
Bombastus	Non-ionic hydrous liniment S...	190641906	1
Bombastus	Non-ionic hydrous liniment S...	1906549	1
Bombastus	Hydrated liniment SR/DAC (NR...	190782607	1
Bombastus	Non-ionic hydrous liniment S...	190793007	1
Bombastus	Hydrated liniment SR/DAC (NR...	191132210	1
Bombastus	Non-ionic hydrous liniment S...	192621	1
Bombastus	Non-ionic hydrous liniment S...	198001299	1
Bombastus	Non-ionic hydrous liniment S...	20(17000575)	1
Bombastus	Non-ionic hydrous liniment S...	200000988	1
Bombastus	Non-ionic hydrous liniment S...	200003823	1
Bombastus	Non-ionic hydrous liniment S...	20000417	1
Bombastus	Non-ionic hydrous liniment S...	20000423	3
Bombastus	Non-ionic hydrous liniment S...	20000424	14
Bombastus	Non-ionic hydrous liniment S...	20000425	10
Bombastus	Non-ionic hydrous liniment S...	20000986	3
Bombastus	Non-ionic hydrous liniment S...	20000987	1
Bombastus	Non-ionic hydrous liniment S...	20000988	6
Bombastus	Non-ionic hydrous liniment S...	20000989	18
Bombastus	Non-ionic hydrous liniment S...	20001325	1
Bombastus	Non-ionic hydrous liniment S...	20001326	5
Bombastus	Non-ionic hydrous liniment S...	20001327	2
Bombastus	Non-ionic hydrous liniment S...	20001329	7
Bombastus	Non-ionic hydrous liniment S...	20001330	16
Bombastus	Hydrated liniment SR/DAC (NR...	20001408	5
Bombastus	Hydrated liniment SR/DAC (NR...	200014113	1
Bombastus	Hydrated liniment SR/DAC (NR...	20001412	2
Bombastus	Hydrated liniment SR/DAC (NR...	20001413	2
Bombastus	Hydrated liniment SR/DAC (NR...	20001414	11
Bombastus	Non-ionic hydrous liniment S...	20002000	4
Bombastus	Non-ionic hydrous liniment S...	20002001	3
Bombastus	Non-ionic hydrous liniment S...	20002003	16
Bombastus	Non-ionic hydrous liniment S...	20002004	23
Bombastus	Non-ionic hydrous liniment S...	20002760	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Non-ionic hydrous liniment S...	20002761	7
Bombastus	Non-ionic hydrous liniment S...	20002762	6
Bombastus	Non-ionic hydrous liniment S...	20002981	1
Bombastus	Non-ionic hydrous liniment S...	20002983	1
Bombastus	Non-ionic hydrous liniment S...	20002984	1
Bombastus	Hydrated liniment SR/DAC (NR...	20002985	1
Bombastus	Non-ionic hydrous liniment S...	20002986	4
Bombastus	Non-ionic hydrous liniment S...	20002987	8
Bombastus	Non-ionic hydrous liniment S...	20002988	13
Bombastus	Non-ionic hydrous liniment S...	20002989	4
Bombastus	Hydrated liniment SR/DAC (NR...	20003070	1
Bombastus	Hydrated liniment SR/DAC (NR...	20003071	4
Bombastus	Hydrated liniment SR/DAC (NR...	20003072	2
Bombastus	Hydrated liniment SR/DAC (NR...	20003073	13
Bombastus	Non-ionic hydrous liniment S...	20003817	1
Bombastus	Non-ionic hydrous liniment S...	20003822	2
Bombastus	Non-ionic hydrous liniment S...	20003823	13
Bombastus	Non-ionic hydrous liniment S...	20003824	18
Bombastus	Non-ionic hydrous liniment S...	20003825	10
Bombastus	Non-ionic hydrous liniment S...	20003826	18
Bombastus	Hydrated liniment SR/DAC (NR...	20004042	2
Bombastus	Hydrated liniment SR/DAC (NR...	20004045	7
Bombastus	Non-ionic hydrous liniment S...	20004406	1
Bombastus	Non-ionic hydrous liniment S...	20004407	1
Bombastus	Non-ionic hydrous liniment S...	20004408	11
Bombastus	Non-ionic hydrous liniment S...	20004409	4
Bombastus	Hydrated liniment SR/DAC (NR...	20005299	1
Bombastus	Hydrated liniment SR/DAC (NR...	20005301	1
Bombastus	Hydrated liniment SR/DAC (NR...	20005302	10
Bombastus	Non-ionic hydrous liniment S...	2000988	1
Bombastus	Non-ionic hydrous liniment S...	2002001	1
Bombastus	Non-ionic hydrous liniment S...	2002989	1
Bombastus	Non-ionic hydrous liniment S...	2003825	1
Bombastus	Non-ionic hydrous liniment S...	21(17001405)	1
Bombastus	Non-ionic hydrous liniment S...	21000617	2
Bombastus	Non-ionic hydrous liniment S...	21000619	1
Bombastus	Non-ionic hydrous liniment S...	21000621	4
Bombastus	Non-ionic hydrous liniment S...	21000622	7
Bombastus	Non-ionic hydrous liniment S...	21002325	1
Bombastus	Non-ionic hydrous liniment S...	21002326	1
Bombastus	Non-ionic hydrous liniment S...	21002329	7
Bombastus	Non-ionic hydrous liniment S...	21002330	8
Bombastus	Hydrated liniment SR/DAC (NR...	21002568	2
Bombastus	Hydrated liniment SR/DAC (NR...	21002569	2
Bombastus	Non-ionic hydrous liniment S...	21003175	1
Bombastus	Non-ionic hydrous liniment S...	21003176	6
Bombastus	Non-ionic hydrous liniment S...	21003177	4
Bombastus	Non-ionic hydrous liniment S...	21003178	5
Bombastus	Hydrated liniment SR/DAC (NR...	21003861	1
Bombastus	Non-ionic hydrous liniment S...	21004485	1
Bombastus	Non-ionic hydrous liniment S...	21004486	1
Bombastus	Non-ionic hydrous liniment S...	21004487	3
Bombastus	Hydrated liniment SR/DAC (NR...	21005029	1
Bombastus	Hydrated liniment SR/DAC (NR...	21005030	2
Bombastus	Non-ionic hydrous liniment S...	211115(21000617)	1
Bombastus	Non-ionic hydrous liniment S...	22(18000057)	1
Bombastus	Non-ionic hydrous liniment S...	22000840	2
Bombastus	Non-ionic hydrous liniment S...	220519(21004484)	1
Bombastus	Non-ionic hydrous liniment S...	229263	1
Bombastus	Non-ionic hydrous liniment S...	23(18002332)	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Non-ionic hydrous liniment S...	23B280920	1
Bombastus	Non-ionic hydrous liniment S...	24(125336)	1
Bombastus	Non-ionic hydrous liniment S...	25031-05-01	1
Bombastus	Non-ionic hydrous liniment S...	258820	1
Bombastus	Non-ionic hydrous liniment S...	26(18005138)	1
Bombastus	Non-ionic hydrous liniment S...	264191	1
Bombastus	Hydrated liniment SR/DAC (NR...	265946	1
Bombastus	Non-ionic hydrous liniment S...	267329	1
Bombastus	Non-ionic hydrous liniment S...	267339	3
Bombastus	Non-ionic hydrous liniment S...	268124	1
Bombastus	Non-ionic hydrous liniment S...	268125	1
Bombastus	Hydrated liniment SR/DAC (NR...	268572	1
Bombastus	Non-ionic hydrous liniment S...	269131	1
Bombastus	Hydrated liniment SR/DAC (NR...	269132	1
Bombastus	Non-ionic hydrous liniment S...	269133	1
Bombastus	Non-ionic hydrous liniment S...	269843	1
Bombastus	Non-ionic hydrous liniment S...	269847	2
Bombastus	Hydrated liniment SR/DAC (NR...	269848	2
Bombastus	Non-ionic hydrous liniment S...	26A281216	1
Bombastus	Hydrated liniment SR/DAC (NR...	26B0590416	1
Bombastus	Non-ionic hydrous liniment S...	27(18006450)	1
Bombastus	Hydrated liniment SR/DAC (NR...	270673	3
Bombastus	Non-ionic hydrous liniment S...	271236	1
Bombastus	Non-ionic hydrous liniment S...	271242	1
Bombastus	Non-ionic hydrous liniment S...	271245	2
Bombastus	Non-ionic hydrous liniment S...	271249	1
Bombastus	Non-ionic hydrous liniment S...	271302	1
Bombastus	Non-ionic hydrous liniment S...	271304	2
Bombastus	Non-ionic hydrous liniment S...	272614	1
Bombastus	Non-ionic hydrous liniment S...	272615	4
Bombastus	Non-ionic hydrous liniment S...	272647	1
Bombastus	Non-ionic hydrous liniment S...	273371	1
Bombastus	Non-ionic hydrous liniment S...	273373	1
Bombastus	Non-ionic hydrous liniment S...	273374	1
Bombastus	Non-ionic hydrous liniment S...	273375	1
Bombastus	Hydrated liniment SR/DAC (NR...	273773	1
Bombastus	Hydrated liniment SR/DAC (NR...	273774	3
Bombastus	Non-ionic hydrous liniment S...	274014	2
Bombastus	Non-ionic hydrous liniment S...	274016	2
Bombastus	Non-ionic hydrous liniment S...	274813	1
Bombastus	Non-ionic hydrous liniment S...	274815	1
Bombastus	Non-ionic hydrous liniment S...	274819	2
Bombastus	Non-ionic hydrous liniment S...	274820	1
Bombastus	Non-ionic hydrous liniment S...	274869	1
Bombastus	Non-ionic hydrous liniment S...	275626	1
Bombastus	Non-ionic hydrous liniment S...	275785	2
Bombastus	Non-ionic hydrous liniment S...	275786	4
Bombastus	Non-ionic hydrous liniment S...	275787	2
Bombastus	Non-ionic hydrous liniment S...	275788	4
Bombastus	Non-ionic hydrous liniment S...	275789	1
Bombastus	Non-ionic hydrous liniment S...	275790	1
Bombastus	Hydrated liniment SR/DAC (NR...	275792	2
Bombastus	Hydrated liniment SR/DAC (NR...	275864	1
Bombastus	Hydrated liniment SR/DAC (NR...	275869	1
Bombastus	Non-ionic hydrous liniment S...	2764	1
Bombastus	Non-ionic hydrous liniment S...	276523	1
Bombastus	Non-ionic hydrous liniment S...	276524	1
Bombastus	Non-ionic hydrous liniment S...	276525	5
Bombastus	Non-ionic hydrous liniment S...	276526	1
Bombastus	Hydrated liniment SR/DAC (NR...	277778	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrated liniment SR/DAC (NR...	277781	1
Bombastus	Hydrated liniment SR/DAC (NR...	277782	2
Bombastus	Non-ionic hydrous liniment S...	278255	1
Bombastus	Hydrated liniment SR/DAC (NR...	278256	2
Bombastus	Non-ionic hydrous liniment S...	278258	4
Bombastus	Non-ionic hydrous liniment S...	278259	6
Bombastus	Non-ionic hydrous liniment S...	278260	4
Bombastus	Hydrated liniment SR/DAC (NR...	279397	1
Bombastus	Hydrated liniment SR/DAC (NR...	279399	1
Bombastus	Hydrated liniment SR/DAC (NR...	279400	5
Bombastus	Non-ionic hydrous liniment S...	279496	3
Bombastus	Non-ionic hydrous liniment S...	279497	1
Bombastus	Non-ionic hydrous liniment S...	279498	2
Bombastus	Non-ionic hydrous liniment S...	279499	3
Bombastus	Non-ionic hydrous liniment S...	279500	4
Bombastus	Non-ionic hydrous liniment S...	279501	3
Bombastus	Non-ionic hydrous liniment S...	279502	6
Bombastus	Hydrated liniment SR/DAC (NR...	280805	1
Bombastus	Hydrated liniment SR/DAC (NR...	280876	2
Bombastus	Non-ionic hydrous liniment S...	280877	7
Bombastus	Non-ionic hydrous liniment S...	2809	1
Bombastus	Non-ionic hydrous liniment S...	281558	3
Bombastus	Non-ionic hydrous liniment S...	281560	1
Bombastus	Non-ionic hydrous liniment S...	281561	2
Bombastus	Hydrated liniment SR/DAC (NR...	281562	2
Bombastus	Non-ionic hydrous liniment S...	281563	2
Bombastus	Non-ionic hydrous liniment S...	281564	4
Bombastus	Hydrated liniment SR/DAC (NR...	281642	2
Bombastus	Hydrated liniment SR/DAC (NR...	281644	1
Bombastus	Hydrated liniment SR/DAC (NR...	281645	2
Bombastus	Hydrated liniment SR/DAC (NR...	281646	2
Bombastus	Non-ionic hydrous liniment S...	2819	1
Bombastus	Non-ionic hydrous liniment S...	282332	4
Bombastus	Non-ionic hydrous liniment S...	282333	3
Bombastus	Non-ionic hydrous liniment S...	282334	4
Bombastus	Non-ionic hydrous liniment S...	282335	2
Bombastus	Hydrated liniment SR/DAC (NR...	282882	1
Bombastus	Hydrated liniment SR/DAC (NR...	282884	1
Bombastus	Hydrated liniment SR/DAC (NR...	282885	1
Bombastus	Non-ionic hydrous liniment S...	282945	2
Bombastus	Non-ionic hydrous liniment S...	282946	3
Bombastus	Non-ionic hydrous liniment S...	282947	6
Bombastus	Non-ionic hydrous liniment S...	284231	1
Bombastus	Non-ionic hydrous liniment S...	284233	1
Bombastus	Hydrated liniment SR/DAC (NR...	284234	2
Bombastus	Non-ionic hydrous liniment S...	284236	1
Bombastus	Non-ionic hydrous liniment S...	284237	1
Bombastus	Hydrated liniment SR/DAC (NR...	284338	1
Bombastus	Hydrated liniment SR/DAC (NR...	284339	1
Bombastus	Hydrated liniment SR/DAC (NR...	284340	4
Bombastus	Non-ionic hydrous liniment S...	285023	1
Bombastus	Non-ionic hydrous liniment S...	285024	1
Bombastus	Non-ionic hydrous liniment S...	285025	3
Bombastus	Hydrated liniment SR/DAC (NR...	285737	4
Bombastus	Hydrated liniment SR/DAC (NR...	285738	2
Bombastus	Hydrated liniment SR/DAC (NR...	285739	2
Bombastus	Hydrated liniment SR/DAC (NR...	285740	1
Bombastus	Non-ionic hydrous liniment S...	285790	2
Bombastus	Hydrated liniment SR/DAC (NR...	285791	1
Bombastus	Hydrated liniment SR/DAC (NR...	285792	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Non-ionic hydrous liniment S...	285793	4
Bombastus	Non-ionic hydrous liniment S...	285795	6
Bombastus	Hydrated liniment SR/DAC (NR...	285838	2
Bombastus	Non-ionic hydrous liniment S...	286417	5
Bombastus	Non-ionic hydrous liniment S...	286418	8
Bombastus	Non-ionic hydrous liniment S...	286419	4
Bombastus	Non-ionic hydrous liniment S...	286420	1
Bombastus	Non-ionic hydrous liniment S...	286421	1
Bombastus	Hydrated liniment SR/DAC (NR...	286935	4
Bombastus	Hydrated liniment SR/DAC (NR...	286936	2
Bombastus	Non-ionic hydrous liniment S...	287318	7
Bombastus	Non-ionic hydrous liniment S...	287319	2
Bombastus	Non-ionic hydrous liniment S...	287320	1
Bombastus	Non-ionic hydrous liniment S...	287321	6
Bombastus	Hydrated liniment SR/DAC (NR...	287323	5
Bombastus	Hydrated liniment SR/DAC (NR...	287409	1
Bombastus	Hydrated liniment SR/DAC (NR...	287410	3
Bombastus	Hydrated liniment SR/DAC (NR...	287411	1
Bombastus	Hydrated liniment SR/DAC (NR...	287412	1
Bombastus	Non-ionic hydrous liniment S...	288386	1
Bombastus	Non-ionic hydrous liniment S...	288387	2
Bombastus	Non-ionic hydrous liniment S...	288389	2
Bombastus	Non-ionic hydrous liniment S...	288390	1
Bombastus	Non-ionic hydrous liniment S...	288451	4
Bombastus	Non-ionic hydrous liniment S...	288452	1
Bombastus	Non-ionic hydrous liniment S...	288453	8
Bombastus	Non-ionic hydrous liniment S...	288454	4
Bombastus	Hydrated liniment SR/DAC (NR...	288533	1
Bombastus	Hydrated liniment SR/DAC (NR...	288535	5
Bombastus	Hydrated liniment SR/DAC (NR...	288536	2
Bombastus	Hydrated liniment SR/DAC (NR...	288537	2
Bombastus	Hydrated liniment SR/DAC (NR...	288538	3
Bombastus	Non-ionic hydrous liniment S...	289205	1
Bombastus	Non-ionic hydrous liniment S...	289206	3
Bombastus	Non-ionic hydrous liniment S...	289207	1
Bombastus	Non-ionic hydrous liniment S...	289208	2
Bombastus	Non-ionic hydrous liniment S...	289209	4
Bombastus	Hydrated liniment SR/DAC (NR...	289862	2
Bombastus	Hydrated liniment SR/DAC (NR...	289863	7
Bombastus	Hydrated liniment SR/DAC (NR...	289864	5
Bombastus	Non-ionic hydrous liniment S...	29(19000519)	1
Bombastus	Non-ionic hydrous liniment S...	290121	3
Bombastus	Non-ionic hydrous liniment S...	290610	3
Bombastus	Non-ionic hydrous liniment S...	290611	1
Bombastus	Non-ionic hydrous liniment S...	290612	3
Bombastus	Non-ionic hydrous liniment S...	290613	8
Bombastus	Non-ionic hydrous liniment S...	291220	2
Bombastus	Non-ionic hydrous liniment S...	291221	3
Bombastus	Non-ionic hydrous liniment S...	291222	6
Bombastus	Non-ionic hydrous liniment S...	291223	4
Bombastus	Non-ionic hydrous liniment S...	291286	4
Bombastus	Non-ionic hydrous liniment S...	291859	3
Bombastus	Non-ionic hydrous liniment S...	291860	3
Bombastus	Non-ionic hydrous liniment S...	291861	4
Bombastus	Hydrated liniment SR/DAC (NR...	291866	3
Bombastus	Hydrated liniment SR/DAC (NR...	291867	1
Bombastus	Hydrated liniment SR/DAC (NR...	292491	7
Bombastus	Hydrated liniment SR/DAC (NR...	292492	1
Bombastus	Hydrated liniment SR/DAC (NR...	292493	4
Bombastus	Non-ionic hydrous liniment S...	292618	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Non-ionic hydrous liniment S…	292619	1
Bombastus	Hydrated liniment SR/DAC (NR…	292621	5
Bombastus	Non-ionic hydrous liniment S…	292742	2
Bombastus	Non-ionic hydrous liniment S…	293574	1
Bombastus	Non-ionic hydrous liniment S…	293577	3
Bombastus	Non-ionic hydrous liniment S…	293578	5
Bombastus	Non-ionic hydrous liniment S…	293579	8
Bombastus	Hydrated liniment SR/DAC (NR…	293590	4
Bombastus	Hydrated liniment SR/DAC (NR…	293591	1
Bombastus	Non-ionic hydrous liniment S…	294211	9
Bombastus	Non-ionic hydrous liniment S…	294212	1
Bombastus	Non-ionic hydrous liniment S…	294213	2
Bombastus	Non-ionic hydrous liniment S…	294277	2
Bombastus	Hydrated liniment SR/DAC (NR…	294433	4
Bombastus	Hydrated liniment SR/DAC (NR…	294434	4
Bombastus	Hydrated liniment SR/DAC (NR…	294435	5
Bombastus	Non-ionic hydrous liniment S…	295068	2
Bombastus	Non-ionic hydrous liniment S…	295069	4
Bombastus	Non-ionic hydrous liniment S…	295070	5
Bombastus	Non-ionic hydrous liniment S…	295071	1
Bombastus	Non-ionic hydrous liniment S…	295072	2
Bombastus	Non-ionic hydrous liniment S…	295073	1
Bombastus	Hydrated liniment SR/DAC (NR…	295852	1
Bombastus	Hydrated liniment SR/DAC (NR…	295853	2
Bombastus	Hydrated liniment SR/DAC (NR…	295854	5
Bombastus	Hydrated liniment SR/DAC (NR…	295857	4
Bombastus	Non-ionic hydrous liniment S…	295910	6
Bombastus	Non-ionic hydrous liniment S…	295911	2
Bombastus	Non-ionic hydrous liniment S…	296106	3
Bombastus	Non-ionic hydrous liniment S…	296107	2
Bombastus	Non-ionic hydrous liniment S…	296108	2
Bombastus	Non-ionic hydrous liniment S…	296109	3
Bombastus	Non-ionic hydrous liniment S…	296110	3
Bombastus	Non-ionic hydrous liniment S…	296111	1
Bombastus	Hydrated liniment SR/DAC (NR…	296503	1
Bombastus	Hydrated liniment SR/DAC (NR…	296504	6
Bombastus	Hydrated liniment SR/DAC (NR…	296505	1
Bombastus	Hydrated liniment SR/DAC (NR…	296506	3
Bombastus	Non-ionic hydrous liniment S…	296584	10
Bombastus	Non-ionic hydrous liniment S…	296585	8
Bombastus	Hydrated liniment SR/DAC (NR…	296589	3
Bombastus	Hydrated liniment SR/DAC (NR…	297052	1
Bombastus	Hydrated liniment SR/DAC (NR…	297053	2
Bombastus	Hydrated liniment SR/DAC (NR…	297054	2
Bombastus	Non-ionic hydrous liniment S…	29715	1
Bombastus	Non-ionic hydrous liniment S…	297171	1
Bombastus	Non-ionic hydrous liniment S…	297172	3
Bombastus	Non-ionic hydrous liniment S…	297173	2
Bombastus	Non-ionic hydrous liniment S…	297174	2
Bombastus	Non-ionic hydrous liniment S…	297175	6
Bombastus	Non-ionic hydrous liniment S…	297176	5
Bombastus	Non-ionic hydrous liniment S…	297177	11
Bombastus	Non-ionic hydrous liniment S…	297178	5
Bombastus	Non-ionic hydrous liniment S…	298465	2
Bombastus	Non-ionic hydrous liniment S…	298466	1
Bombastus	Non-ionic hydrous liniment S…	298467	1
Bombastus	Non-ionic hydrous liniment S…	298468	1
Bombastus	Hydrated liniment SR/DAC (NR…	298572	1
Bombastus	Non-ionic hydrous liniment S…	299132	2
Bombastus	Non-ionic hydrous liniment S…	299133	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrated liniment SR/DAC (NR...	299338	1
Bombastus	Hydrated liniment SR/DAC (NR...	299986	1
Bombastus	Hydrated liniment SR/DAC (NR...	299987	3
Bombastus	Hydrated liniment SR/DAC (NR...	299988	4
Bombastus	Non-ionic hydrous liniment S...	30(19001296)	1
Bombastus	Non-ionic hydrous liniment S...	300195	4
Bombastus	Non-ionic hydrous liniment S...	300196	3
Bombastus	Non-ionic hydrous liniment S...	300197	5
Bombastus	Non-ionic hydrous liniment S...	300198	1
Bombastus	Non-ionic hydrous liniment S...	300199	2
Bombastus	Non-ionic hydrous liniment S...	300200	13
Bombastus	Non-ionic hydrous liniment S...	300858	1
Bombastus	Non-ionic hydrous liniment S...	300859	7
Bombastus	Non-ionic hydrous liniment S...	300860	4
Bombastus	Non-ionic hydrous liniment S...	300861	2
Bombastus	Non-ionic hydrous liniment S...	300862	9
Bombastus	Non-ionic hydrous liniment S...	300863	6
Bombastus	Non-ionic hydrous liniment S...	300864	9
Bombastus	Hydrated liniment SR/DAC (NR...	300965	3
Bombastus	Hydrated liniment SR/DAC (NR...	300966	2
Bombastus	Hydrated liniment SR/DAC (NR...	300967	2
Bombastus	Hydrated liniment SR/DAC (NR...	300968	9
Bombastus	Non-ionic hydrous liniment S...	301555	1
Bombastus	Non-ionic hydrous liniment S...	301556	2
Bombastus	Non-ionic hydrous liniment S...	301557	3
Bombastus	Hydrated liniment SR/DAC (NR...	301558	9
Bombastus	Hydrated liniment SR/DAC (NR...	301561	1
Bombastus	Hydrated liniment SR/DAC (NR...	301562	4
Bombastus	Hydrated liniment SR/DAC (NR...	301989	1
Bombastus	Hydrated liniment SR/DAC (NR...	301992	2
Bombastus	Hydrated liniment SR/DAC (NR...	301993	2
Bombastus	Hydrated liniment SR/DAC (NR...	301995	4
Bombastus	Non-ionic hydrous liniment S...	302283	2
Bombastus	Non-ionic hydrous liniment S...	302284	3
Bombastus	Non-ionic hydrous liniment S...	302285	3
Bombastus	Non-ionic hydrous liniment S...	302286	14
Bombastus	Non-ionic hydrous liniment S...	302287	12
Bombastus	Non-ionic hydrous liniment S...	302849	3
Bombastus	Non-ionic hydrous liniment S...	302851	2
Bombastus	Non-ionic hydrous liniment S...	302852	11
Bombastus	Non-ionic hydrous liniment S...	302887	1
Bombastus	Hydrated liniment SR/DAC (NR...	302930	2
Bombastus	Hydrated liniment SR/DAC (NR...	302931	3
Bombastus	Hydrated liniment SR/DAC (NR...	302932	1
Bombastus	Hydrated liniment SR/DAC (NR...	302933	4
Bombastus	Non-ionic hydrous liniment S...	303893	1
Bombastus	Non-ionic hydrous liniment S...	303894	7
Bombastus	Non-ionic hydrous liniment S...	303895	4
Bombastus	Non-ionic hydrous liniment S...	303896	3
Bombastus	Non-ionic hydrous liniment S...	303897	1
Bombastus	Non-ionic hydrous liniment S...	303898	9
Bombastus	Hydrated liniment SR/DAC (NR...	303959	1
Bombastus	Hydrated liniment SR/DAC (NR...	303960	2
Bombastus	Hydrated liniment SR/DAC (NR...	303961	3
Bombastus	Hydrated liniment SR/DAC (NR...	303962	7
Bombastus	Hydrated liniment SR/DAC (NR...	303963	9
Bombastus	Non-ionic hydrous liniment S...	304496	1
Bombastus	Hydrated liniment SR/DAC (NR...	304840	2
Bombastus	Hydrated liniment SR/DAC (NR...	304841	1
Bombastus	Hydrated liniment SR/DAC (NR...	304842	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrated liniment SR/DAC (NR...	304843	2
Bombastus	Hydrated liniment SR/DAC (NR...	304844	5
Bombastus	Hydrated liniment SR/DAC (NR...	3048843	1
Bombastus	Non-ionic hydrous liniment S...	304932	6
Bombastus	Non-ionic hydrous liniment S...	304933	6
Bombastus	Non-ionic hydrous liniment S...	304934	6
Bombastus	Non-ionic hydrous liniment S...	304935	6
Bombastus	Non-ionic hydrous liniment S...	304936	11
Bombastus	Non-ionic hydrous liniment S...	305591	1
Bombastus	Non-ionic hydrous liniment S...	305593	2
Bombastus	Non-ionic hydrous liniment S...	305594	2
Bombastus	Non-ionic hydrous liniment S...	305595	6
Bombastus	Hydrated liniment SR/DAC (NR...	305596	11
Bombastus	Hydrated liniment SR/DAC (NR...	306059	7
Bombastus	Hydrated liniment SR/DAC (NR...	306060	4
Bombastus	Non-ionic hydrous liniment S...	306357	1
Bombastus	Non-ionic hydrous liniment S...	306358	3
Bombastus	Non-ionic hydrous liniment S...	306359	3
Bombastus	Non-ionic hydrous liniment S...	306360	2
Bombastus	Non-ionic hydrous liniment S...	306361	16
Bombastus	Hydrated liniment SR/DAC (NR...	306362	12
Bombastus	Hydrated liniment SR/DAC (NR...	307263	15
Bombastus	Hydrated liniment SR/DAC (NR...	307264	11
Bombastus	Hydrated liniment SR/DAC (NR...	307265	6
Bombastus	Hydrated liniment SR/DAC (NR...	307680	2
Bombastus	Non-ionic hydrous liniment S...	307681	3
Bombastus	Non-ionic hydrous liniment S...	307682	1
Bombastus	Hydrated liniment SR/DAC (NR...	307683	4
Bombastus	Hydrated liniment SR/DAC (NR...	307684	7
Bombastus	Non-ionic hydrous liniment S...	307685	10
Bombastus	Non-ionic hydrous liniment S...	308622	1
Bombastus	Non-ionic hydrous liniment S...	308623	6
Bombastus	Non-ionic hydrous liniment S...	308624	5
Bombastus	Non-ionic hydrous liniment S...	308625	1
Bombastus	Non-ionic hydrous liniment S...	308626	5
Bombastus	Non-ionic hydrous liniment S...	308627	9
Bombastus	Non-ionic hydrous liniment S...	308628	16
Bombastus	Hydrated liniment SR/DAC (NR...	308909	2
Bombastus	Hydrated liniment SR/DAC (NR...	308910	2
Bombastus	Hydrated liniment SR/DAC (NR...	308911	2
Bombastus	Hydrated liniment SR/DAC (NR...	308912	10
Bombastus	Non-ionic hydrous liniment S...	30898	1
Bombastus	Non-ionic hydrous liniment S...	309786	1
Bombastus	Non-ionic hydrous liniment S...	309790	2
Bombastus	Non-ionic hydrous liniment S...	309791	6
Bombastus	Non-ionic hydrous liniment S...	309792	1
Bombastus	Non-ionic hydrous liniment S...	309794	3
Bombastus	Non-ionic hydrous liniment S...	309795	3
Bombastus	Non-ionic hydrous liniment S...	309796	1
Bombastus	Non-ionic hydrous liniment S...	309797	1
Bombastus	Non-ionic hydrous liniment S...	309798	2
Bombastus	Non-ionic hydrous liniment S...	309799	1
Bombastus	Non-ionic hydrous liniment S...	309801	1
Bombastus	Non-ionic hydrous liniment S...	309802	7
Bombastus	Non-ionic hydrous liniment S...	309803	7
Bombastus	Non-ionic hydrous liniment S...	309804	7
Bombastus	Non-ionic hydrous liniment S...	310355	1
Bombastus	Non-ionic hydrous liniment S...	310356	1
Bombastus	Non-ionic hydrous liniment S...	310357	1
Bombastus	Non-ionic hydrous liniment S...	310358	7

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Non-ionic hydrous liniment S...	310358-20180112Ma4	1
Bombastus	Non-ionic hydrous liniment S...	310359	5
Bombastus	Hydrated liniment SR/DAC (NR...	310641	7
Bombastus	Hydrated liniment SR/DAC (NR...	310642	5
Bombastus	Hydrated liniment SR/DAC (NR...	310643	4
Bombastus	Hydrated liniment SR/DAC (NR...	310644	18
Bombastus	Non-ionic hydrous liniment S...	311039	2
Bombastus	Non-ionic hydrous liniment S...	311040	2
Bombastus	Non-ionic hydrous liniment S...	311041	15
Bombastus	Non-ionic hydrous liniment S...	311609	3
Bombastus	Non-ionic hydrous liniment S...	311610	3
Bombastus	Non-ionic hydrous liniment S...	311611	7
Bombastus	Non-ionic hydrous liniment S...	32(19002434)	1
Bombastus	Non-ionic hydrous liniment S...	3249	1
Bombastus	Non-ionic hydrous liniment S...	33(19001295)	1
Bombastus	Non-ionic hydrous liniment S...	3451	1
Bombastus	Non-ionic hydrous liniment S...	38(20002981)	1
Bombastus	Non-ionic hydrous liniment S...	388627	1
Bombastus	Non-ionic hydrous liniment S...	39(20003816)	1
Bombastus	Non-ionic hydrous liniment S...	40(20004406)	1
Bombastus	Non-ionic hydrous liniment S...	41(21000620)	1
Bombastus	Hydrated liniment SR/DAC (NR...	4114E-03266	1
Bombastus	Non-ionic hydrous liniment S...	418M-03266	1
Bombastus	Non-ionic hydrous liniment S...	488451	1
Bombastus	Hydrated liniment SR/DAC (NR...	4A070114	1
Bombastus	Non-ionic hydrous liniment S...	5A150419	1
Bombastus	Non-ionic hydrous liniment S...	60091111	3
Bombastus	Non-ionic hydrous liniment S...	60091112	1
Bombastus	Non-ionic hydrous liniment S...	600991111	1
Bombastus	Hydrated liniment SR/DAC (NR...	61A040918	1
Bombastus	Non-ionic hydrous liniment S...	7021402	1
Bombastus	Hydrated liniment SR/DAC (NR...	88A161214	1
Bombastus	Non-ionic hydrous liniment S...	98434	1
Bombastus	Non-ionic hydrous liniment S...	9A120619	1
Bombastu-Werke AG/Gehe	Non-ionic hydrous liniment S...	281564	1
Bombastu-Werke AG/Gehe	Non-ionic hydrous liniment S...	282947	1
Bombastu-Werke AG/Gehe	Non-ionic hydrous liniment S...	285025	1
Bombastu-Werke AG/Gehe	Non-ionic hydrous liniment S...	288452	1
Bombatus	Hydrated liniment SR/DAC (NR...	18006888	5
Bombatus	Hydrated liniment SR/DAC (NR...	19001957	3
Bombstus/ Gehe	Non-ionic hydrous liniment S...	19004234	1
Bombstus/ Sanacorp	Hydrated liniment SR/DAC (NR...	281643	2
Bombstus	Non-ionic hydrous liniment S...	300199	1
Cael/Phönix	Non-ionic hydrous liniment S...	15326702	1
Caeleo/ Kehr	Non-ionic hydrous liniment S...	2100241101	1
Caelo	Non-ionic hydrous liniment S...		2
Caelo	Non-ionic hydrous liniment S...	102600630	1
Caelo	Non-ionic hydrous liniment S...	10260630	1
Caelo	Non-ionic hydrous liniment S...	10260682	1
Caelo	Non-ionic hydrous liniment S...	10A110515	1
Caelo	Non-ionic hydrous liniment S...	10A310516	1
Caelo	Non-ionic hydrous liniment S...	11A040618	1
Caelo	Non-ionic hydrous liniment S...	122304	1
Caelo	Non-ionic hydrous liniment S...	123304	1
Caelo	Non-ionic hydrous liniment S...	123test	1
Caelo	Non-ionic hydrous liniment S...	1290617/17064402	1
Caelo	Non-ionic hydrous liniment S...	13A260617	2
Caelo	Non-ionic hydrous liniment S...	14024102	1
Caelo	Non-ionic hydrous liniment S...	14024104	1
Caelo	Non-ionic hydrous liniment S...	140918	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Non-ionic hydrous liniment S…	14092015A	1
Caelo	Non-ionic hydrous liniment S…	14134601	9
Caelo	Non-ionic hydrous liniment S…	14173601	3
Caelo	Non-ionic hydrous liniment S…	14209501	8
Caelo	Non-ionic hydrous liniment S…	14276001	5
Caelo	Non-ionic hydrous liniment S…	14276002	7
Caelo	Non-ionic hydrous liniment S…	14328402	3
Caelo	Hydrated liniment SR/DAC (NR…	14350002	2
Caelo	Non-ionic hydrous liniment S…	14350703	3
Caelo	Hydrated liniment SR/DAC (NR…	15002302	5
Caelo	Non-ionic hydrous liniment S…	15014601	9
Caelo	Hydrated liniment SR/DAC (NR…	150321	1
Caelo	Non-ionic hydrous liniment S…	15096001	1
Caelo	Non-ionic hydrous liniment S…	15096002	11
Caelo	Non-ionic hydrous liniment S…	15096101	8
Caelo	Non-ionic hydrous liniment S…	15192301	8
Caelo	Non-ionic hydrous liniment S…	15192391	1
Caelo	Non-ionic hydrous liniment S…	15192401	10
Caelo	Non-ionic hydrous liniment S…	15192502	9
Caelo	Non-ionic hydrous liniment S…	1519252	1
Caelo	Non-ionic hydrous liniment S…	15279702	1
Caelo	Hydrated liniment SR/DAC (NR…	15324402	2
Caelo	Hydrated liniment SR/DAC (NR…	15324403	1
Caelo	Non-ionic hydrous liniment S…	15326702	12
Caelo	Non-ionic hydrous liniment S…	15326703	8
Caelo	Non-ionic hydrous liniment S…	15420901	2
Caelo	Non-ionic hydrous liniment S…	15420902	5
Caelo	Non-ionic hydrous liniment S…	15421002	4
Caelo	Non-ionic hydrous liniment S…	16021601	22
Caelo	Non-ionic hydrous liniment S…	16113801	14
Caelo	Non-ionic hydrous liniment S…	16113901	13
Caelo	Non-ionic hydrous liniment S…	16113902	1
Caelo	Non-ionic hydrous liniment S…	16114002	17
Caelo	Non-ionic hydrous liniment S…	1616701	1
Caelo	Non-ionic hydrous liniment S…	16176701	26
Caelo	Non-ionic hydrous liniment S…	16176802	6
Caelo	Hydrated liniment SR/DAC (NR…	16182403	2
Caelo	Non-ionic hydrous liniment S…	16218201	19
Caelo	Non-ionic hydrous liniment S…	1621821	1
Caelo	Non-ionic hydrous liniment S…	16218301	12
Caelo	Non-ionic hydrous liniment S…	162258402	1
Caelo	Non-ionic hydrous liniment S…	16248301	1
Caelo	Non-ionic hydrous liniment S…	1625401	1
Caelo	Non-ionic hydrous liniment S…	1625801	1
Caelo	Non-ionic hydrous liniment S…	16258401	9
Caelo	Non-ionic hydrous liniment S…	16258501	19
Caelo	Non-ionic hydrous liniment S…	16258801	1
Caelo	Non-ionic hydrous liniment S…	1631880	1
Caelo	Non-ionic hydrous liniment S…	16318801	55
Caelo	Non-ionic hydrous liniment S…	16318802	9
Caelo	Hydrated liniment SR/DAC (NR…	16330502	1
Caelo	Non-ionic hydrous liniment S…	1676802	1
Caelo	Non-ionic hydrous liniment S…	16A050815	2
Caelo	Non-ionic hydrous liniment S…	16B190716	1
Caelo	Non-ionic hydrous liniment S…	17001404	1
Caelo	Non-ionic hydrous liniment S…	17001409	1
Caelo	Hydrated liniment SR/DAC (NR…	17022202	2
Caelo	Non-ionic hydrous liniment S…	17027801	27
Caelo	Non-ionic hydrous liniment S…	17027901	13
Caelo	Non-ionic hydrous liniment S…	17053187	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Non-ionic hydrous liniment S…	170644	1
Caelo	Hydrated liniment SR/DAC (NR…	17064401	17
Caelo	Non-ionic hydrous liniment S…	17064402	46
Caelo	Non-ionic hydrous liniment S…	17117303	2
Caelo	Non-ionic hydrous liniment S…	1714401	1
Caelo	Non-ionic hydrous liniment S…	17144401	26
Caelo	Non-ionic hydrous liniment S…	17144502	8
Caelo	Non-ionic hydrous liniment S…	17175201	19
Caelo	Non-ionic hydrous liniment S…	17175301	21
Caelo	Hydrated liniment SR/DAC (NR…	17198902	2
Caelo	Hydrated liniment SR/DAC (NR…	17198903	2
Caelo	Non-ionic hydrous liniment S…	17208802	1
Caelo	Non-ionic hydrous liniment S…	17208901	11
Caelo	Non-ionic hydrous liniment S…	17209001	31
Caelo	Non-ionic hydrous liniment S…	17209901	1
Caelo	Non-ionic hydrous liniment S…	17261101	17
Caelo	Non-ionic hydrous liniment S…	17261201	28
Caelo	Non-ionic hydrous liniment S…	17312501	30
Caelo	Non-ionic hydrous liniment S…	17312601	26
Caelo	Non-ionic hydrous liniment S…	17313102	1
Caelo	Non-ionic hydrous liniment S…	17313201	12
Caelo	Hydrated liniment SR/DAC (NR…	17333401	1
Caelo	Non-ionic hydrous liniment S…	1744401	1
Caelo	Non-ionic hydrous liniment S…	1761201	1
Caelo	Non-ionic hydrous liniment S…	17A140817	1
Caelo	Non-ionic hydrous liniment S…	18000058	1
Caelo	Hydrated liniment SR/DAC (NR…	18001658	1
Caelo	Hydrated liniment SR/DAC (NR…	18001660	1
Caelo	Non-ionic hydrous liniment S…	18001760	1
Caelo	Non-ionic hydrous liniment S…	18002885	1
Caelo	Non-ionic hydrous liniment S…	18002886	1
Caelo	Non-ionic hydrous liniment S…	18002887	2
Caelo	Hydrated liniment SR/DAC (NR…	18002957	1
Caelo	Hydrated liniment SR/DAC (NR…	18002961	1
Caelo	Non-ionic hydrous liniment S…	18003533	1
Caelo	Non-ionic hydrous liniment S…	18003534	2
Caelo	Non-ionic hydrous liniment S…	18004190	1
Caelo	Hydrated liniment SR/DAC (NR…	18004548	1
Caelo	Non-ionic hydrous liniment S…	180050701	1
Caelo	Non-ionic hydrous liniment S…	18005144	2
Caelo	Hydrated liniment SR/DAC (NR…	18005586	4
Caelo	Hydrated liniment SR/DAC (NR…	18050701	90
Caelo	Non-ionic hydrous liniment S…	18050702	22
Caelo	Non-ionic hydrous liniment S…	18055703	1
Caelo	Non-ionic hydrous liniment S…	1805702	1
Caelo	Hydrated liniment SR/DAC (NR…	18074403	1
Caelo	Non-ionic hydrous liniment S…	18086702	14
Caelo	Non-ionic hydrous liniment S…	18086801	2
Caelo	Non-ionic hydrous liniment S…	18106503	30
Caelo	Non-ionic hydrous liniment S…	181065035784	1
Caelo	Hydrated liniment SR/DAC (NR…	18109001	2
Caelo	Hydrated liniment SR/DAC (NR…	18109002	2
Caelo	Non-ionic hydrous liniment S…	18153501	29
Caelo	Non-ionic hydrous liniment S…	18153602	5
Caelo	Non-ionic hydrous liniment S…	18174401	11
Caelo	Non-ionic hydrous liniment S…	18174501	15
Caelo	Hydrated liniment SR/DAC (NR…	18233002	4
Caelo	Hydrated liniment SR/DAC (NR…	18233003	1
Caelo	Non-ionic hydrous liniment S…	1823301	1
Caelo	Non-ionic hydrous liniment S…	18233101	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Non-ionic hydrous liniment S...	18233201	38
Caelo	Non-ionic hydrous liniment S...	18233302	2
Caelo	Non-ionic hydrous liniment S...	18266401	1
Caelo	Non-ionic hydrous liniment S...	18278801	11
Caelo	Non-ionic hydrous liniment S...	18278901	31
Caelo	Hydrated liniment SR/DAC (NR...	18313901	2
Caelo	Non-ionic hydrous liniment S...	19000521	4
Caelo	Non-ionic hydrous liniment S...	19002435	1
Caelo	Non-ionic hydrous liniment S...	19002441	1
Caelo	Non-ionic hydrous liniment S...	19002801	1
Caelo	Non-ionic hydrous liniment S...	19004301	5
Caelo	Non-ionic hydrous liniment S...	19004303	1
Caelo	Non-ionic hydrous liniment S...	19004501	22
Caelo	Non-ionic hydrous liniment S...	19004815	1
Caelo	Non-ionic hydrous liniment S...	19006137	3
Caelo	Hydrated liniment SR/DAC (NR...	19016402	1
Caelo	Non-ionic hydrous liniment S...	190351403	1
Caelo	Non-ionic hydrous liniment S...	190555703	1
Caelo	Non-ionic hydrous liniment S...	19055702	15
Caelo	Non-ionic hydrous liniment S...	19055703	55
Caelo	Hydrated liniment SR/DAC (NR...	19068801	3
Caelo	Hydrated liniment SR/DAC (NR...	19068803	1
Caelo	Non-ionic hydrous liniment S...	19084105	1
Caelo	Non-ionic hydrous liniment S...	19121801	1
Caelo	Non-ionic hydrous liniment S...	19136701	62
Caelo	Non-ionic hydrous liniment S...	191367012x	1
Caelo	Non-ionic hydrous liniment S...	19136702	18
Caelo	Non-ionic hydrous liniment S...	19136704	4
Caelo	Hydrated liniment SR/DAC (NR...	19166302	5
Caelo	Non-ionic hydrous liniment S...	19201301	8
Caelo	Non-ionic hydrous liniment S...	19201401	39
Caelo	Hydrated liniment SR/DAC (NR...	19296403	2
Caelo	Hydrated liniment SR/DAC (NR...	19296404	1
Caelo	Hydrated liniment SR/DAC (NR...	19313903	1
Caelo	Non-ionic hydrous liniment S...	2/AD1	1
Caelo	Hydrated liniment SR/DAC (NR...	200000904004	1
Caelo	Non-ionic hydrous liniment S...	200002511003	3
Caelo	Non-ionic hydrous liniment S...	200002511004	1
Caelo	Non-ionic hydrous liniment S...	200002513001	2
Caelo	Non-ionic hydrous liniment S...	200003002001	1
Caelo	Hydrated liniment SR/DAC (NR...	20000904003	2
Caelo	Hydrated liniment SR/DAC (NR...	20000904004	2
Caelo	Hydrated liniment SR/DAC (NR...	20001810001	1
Caelo	Hydrated liniment SR/DAC (NR...	20001810003	1
Caelo	Non-ionic hydrous liniment S...	20002511003	12
Caelo	Non-ionic hydrous liniment S...	20002511004	19
Caelo	Non-ionic hydrous liniment S...	20002513001	18
Caelo	Hydrated liniment SR/DAC (NR...	20002915001	4
Caelo	Hydrated liniment SR/DAC (NR...	20002915003	1
Caelo	Non-ionic hydrous liniment S...	2000300200	1
Caelo	Non-ionic hydrous liniment S...	20003002001	37
Caelo	Non-ionic hydrous liniment S...	20003002003	9
Caelo	Non-ionic hydrous liniment S...	2000302003	1
Caelo	Non-ionic hydrous liniment S...	20003577001	18
Caelo	Non-ionic hydrous liniment S...	20003577002	7
Caelo	Non-ionic hydrous liniment S...	20003577004	1
Caelo	Hydrated liniment SR/DAC (NR...	20003910002	1
Caelo	Hydrated liniment SR/DAC (NR...	20003910003	1
Caelo	Non-ionic hydrous liniment S...	2002511004	1
Caelo	Non-ionic hydrous liniment S...	2003002001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Non-ionic hydrous liniment S...	200618	2
Caelo	Non-ionic hydrous liniment S...	20170829Ma1	1
Caelo	Hydrated liniment SR/DAC (NR...	20614	1
Caelo	Non-ionic hydrous liniment S...	21000510003	6
Caelo	Non-ionic hydrous liniment S...	21000510004	12
Caelo	Hydrated liniment SR/DAC (NR...	21001310003	2
Caelo	Non-ionic hydrous liniment S...	21001822001	5
Caelo	Non-ionic hydrous liniment S...	21001823001	8
Caelo	Non-ionic hydrous liniment S...	21002411001	6
Caelo	Non-ionic hydrous liniment S...	21003958001	5
Caelo	Non-ionic hydrous liniment S...	2110002511003	1
Caelo	Non-ionic hydrous liniment S...	21A201113	1
Caelo	Non-ionic hydrous liniment S...	22000260001	1
Caelo	Non-ionic hydrous liniment S...	22000261001	1
Caelo	Non-ionic hydrous liniment S...	22000261002	1
Caelo	Non-ionic hydrous liniment S...	22001189002	1
Caelo	Non-ionic hydrous liniment S...	22A100918	1
Caelo	Non-ionic hydrous liniment S...	22A101114	1
Caelo	Non-ionic hydrous liniment S...	23A111213	1
Caelo	Non-ionic hydrous liniment S...	24A081018	1
Caelo	Non-ionic hydrous liniment S...	24A271114	1
Caelo	Non-ionic hydrous liniment S...	269134	1
Caelo	Non-ionic hydrous liniment S...	26A281216	1
Caelo	Non-ionic hydrous liniment S...	270819Mo	1
Caelo	Non-ionic hydrous liniment S...	275785	1
Caelo	Non-ionic hydrous liniment S...	275787	1
Caelo	Non-ionic hydrous liniment S...	276526	1
Caelo	Non-ionic hydrous liniment S...	278260	1
Caelo	Non-ionic hydrous liniment S...	281562	1
Caelo	Non-ionic hydrous liniment S...	281564	2
Caelo	Hydrated liniment SR/DAC (NR...	281646	1
Caelo	Non-ionic hydrous liniment S...	282333	1
Caelo	Non-ionic hydrous liniment S...	284237	1
Caelo	Non-ionic hydrous liniment S...	285791	1
Caelo	Non-ionic hydrous liniment S...	287323	1
Caelo	Hydrated liniment SR/DAC (NR...	287410	1
Caelo	Non-ionic hydrous liniment S...	288454	1
Caelo	Non-ionic hydrous liniment S...	289208	1
Caelo	Non-ionic hydrous liniment S...	291222	3
Caelo	Non-ionic hydrous liniment S...	291286	1
Caelo	Non-ionic hydrous liniment S...	293579	2
Caelo	Non-ionic hydrous liniment S...	294211	2
Caelo	Non-ionic hydrous liniment S...	295070	1
Caelo	Non-ionic hydrous liniment S...	295072	1
Caelo	Non-ionic hydrous liniment S...	295910	1
Caelo	Non-ionic hydrous liniment S...	296585	1
Caelo	Non-ionic hydrous liniment S...	297171	1
Caelo	Non-ionic hydrous liniment S...	297175	1
Caelo	Non-ionic hydrous liniment S...	297178	1
Caelo	Non-ionic hydrous liniment S...	298466	1
Caelo	Non-ionic hydrous liniment S...	299133	1
Caelo	Non-ionic hydrous liniment S...	300199	3
Caelo	Non-ionic hydrous liniment S...	300862	2
Caelo	Non-ionic hydrous liniment S...	300863	2
Caelo	Non-ionic hydrous liniment S...	300864	3
Caelo	Non-ionic hydrous liniment S...	302283	1
Caelo	Non-ionic hydrous liniment S...	302285	1
Caelo	Non-ionic hydrous liniment S...	302287	2
Caelo	Non-ionic hydrous liniment S...	303898	2
Caelo	Hydrated liniment SR/DAC (NR...	304842	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrated liniment SR/DAC (NR...	304844	2
Caelo	Non-ionic hydrous liniment S...	304936	1
Caelo	Non-ionic hydrous liniment S...	306362	2
Caelo	Non-ionic hydrous liniment S...	307658	1
Caelo	Non-ionic hydrous liniment S...	307685	2
Caelo	Non-ionic hydrous liniment S...	308627	2
Caelo	Hydrated liniment SR/DAC (NR...	308912	3
Caelo	Non-ionic hydrous liniment S...	309791	1
Caelo	Hydrated liniment SR/DAC (NR...	30A280518	1
Caelo	Non-ionic hydrous liniment S...	31(19136701)	1
Caelo	Non-ionic hydrous liniment S...	310355	1
Caelo	Non-ionic hydrous liniment S...	310359	1
Caelo	Hydrated liniment SR/DAC (NR...	310641	1
Caelo	Non-ionic hydrous liniment S...	311039	1
Caelo	Non-ionic hydrous liniment S...	311611	1
Caelo	Hydrated liniment SR/DAC (NR...	31a290517	1
Caelo	Non-ionic hydrous liniment S...	3269	1
Caelo	Non-ionic hydrous liniment S...	3291	1
Caelo	Non-ionic hydrous liniment S...	3305	1
Caelo	Non-ionic hydrous liniment S...	3331	1
Caelo	Hydrated liniment SR/DAC (NR...	34B170516	1
Caelo	Hydrated liniment SR/DAC (NR...	38A080719	1
Caelo	Non-ionic hydrous liniment S...	4063101	1
Caelo	Hydrated liniment SR/DAC (NR...	43A030717	1
Caelo	Non-ionic hydrous liniment S...	4617M-03366	1
Caelo	Non-ionic hydrous liniment S...	4717Q-03266	1
Caelo	Hydrated liniment SR/DAC (NR...	47B020712	1
Caelo	Hydrated liniment SR/DAC (NR...	52B010817	1
Caelo	Hydrated liniment SR/DAC (NR...	57A041119	1
Caelo	Hydrated liniment SR/DAC (NR...	59b030918	1
Caelo	Non-ionic hydrous liniment S...	5A110315	1
Caelo	Hydrated liniment SR/DAC (NR...	5B040219	1
Caelo	Non-ionic hydrous liniment S...	60091111	2
Caelo	Hydrated liniment SR/DAC (NR...	63A170918	1
Caelo	Hydrated liniment SR/DAC (NR...	67A12092916	1
Caelo	Non-ionic hydrous liniment S...	6A290317	1
Caelo	Hydrated liniment SR/DAC (NR...	70717	1
Caelo	Hydrated liniment SR/DAC (NR...	70B191118	1
Caelo	Hydrated liniment SR/DAC (NR...	8A040220	1
Caelo	Non-ionic hydrous liniment S...	9A230518	1
Caeol/ Noweda	Non-ionic hydrous liniment S...	16318801	1
Caeol/Phornix	Non-ionic hydrous liniment S...	17261201	1
Caeolo / Anzag	Non-ionic hydrous liniment S...	308627	1
Caesar & Lorenz GmbH	Non-ionic hydrous liniment S...	16318801	1
Caesar & Loretz GmbH / ...	Non-ionic hydrous liniment S...	3114041	1
Caesar & Loretz GmbH / ...	Hydrated liniment SR/DAC (NR...	196512	1
Caesar & Loretz GmbH/ A...	Non-ionic hydrous liniment S...	19136701	1
Caesar & Loretz GmbH/ A...	Non-ionic hydrous liniment S...	19201401	1
Caesar & Loretz GmbH/ F...	Non-ionic hydrous liniment S...	19055703	1
Caesar & Loretz GmbH/ N...	Hydrated liniment SR/DAC (NR...	19068802	1
Caesar & Loretz GmbH/ P...	Non-ionic hydrous liniment S...	20003002001	1
Caesar & Loretz GmbH/ P...	Non-ionic hydrous liniment S...	20003577001	2
Caesar & Loretz GmbH//G...	Non-ionic hydrous liniment S...	19201401	2
Caesar & Loretz GmbH/AHD	Non-ionic hydrous liniment S...	19201401	1
Caesar & Loretz GmbH/Fi...	Non-ionic hydrous liniment S...	19136702	3
Caesar & Loretz GmbH/Fi...	Non-ionic hydrous liniment S...	19136701	1
Caesar & Loretz GmbH/Fi...	Non-ionic hydrous liniment S...	20004408	1
Caesar & Loretz GmbH/Gehe	Non-ionic hydrous liniment S...	19004501	1
Caesar & Loretz GmbH/gehe	Non-ionic hydrous liniment S...	19136701	1
Caesar & Loretz GmbH/Gehe	Non-ionic hydrous liniment S...	20003577001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Gehe	Non-ionic hydrous liniment S…	21003958001	1
Caesar & Loretz GmbH/Je…	Non-ionic hydrous liniment S…	19136702	1
Caesar & Loretz GmbH/Je…	Hydrated liniment SR/DAC (NR…	20001810003	1
Caesar & Loretz GmbH/Kr…	Non-ionic hydrous liniment S…	19136702	2
Caesar & Loretz GmbH/No…	Non-ionic hydrous liniment S…	18278901	1
Caesar & Loretz GmbH/No…	Non-ionic hydrous liniment S…	19055703	1
Caesar & Loretz GmbH/No…	Non-ionic hydrous liniment S…	19136701	1
Caesar & Loretz GmbH/Phoe	Hydrated liniment SR/DAC (NR…	20001810003	1
Caesar & Loretz GmbH/Phoe	Non-ionic hydrous liniment S…	20003002001	1
Caesar & Loretz GmbH/Phoe	Non-ionic hydrous liniment S…	20003577001	1
Caesar & Loretz GmbH/Ph…	Non-ionic hydrous liniment S…	11C060521	1
Caesar & Loretz GmbH/Ph…	Non-ionic hydrous liniment S…	19136701	2
Caesar & Loretz GmbH/Sana	Non-ionic hydrous liniment S…	20003002001	1
Caesar & Loretz GmbH/Sa…	Hydrated liniment SR/DAC (NR…	20000904003	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	18153501	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	18174503	1
Caesar & Loretz GmbH	Hydrated liniment SR/DAC (NR…	18184802	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	18233101	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	18233201	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	18278901	3
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	18307406	1
Caesar & Loretz GmbH	Hydrated liniment SR/DAC (NR…	18313901	1
Caesar & Loretz GmbH	Hydrated liniment SR/DAC (NR…	18313902	3
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19004301	6
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19004501	5
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19006549	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19055702	4
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19055703	9
Caesar & Loretz GmbH	Hydrated liniment SR/DAC (NR…	19068802	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19136701	23
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19136702	9
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19136704	1
Caesar & Loretz GmbH	Hydrated liniment SR/DAC (NR…	19166302	4
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19201301	3
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	19201401	5
Caesar & Loretz GmbH	Hydrated liniment SR/DAC (NR…	192827002	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	200002513001	1
Caesar & Loretz GmbH	Hydrated liniment SR/DAC (NR…	20000904004	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	20000989	1
Caesar & Loretz GmbH	Hydrated liniment SR/DAC (NR…	20001810003	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	20002511003	1
CAESAR & LORETZ GMBH	Non-ionic hydrous liniment S…	20002511003	2
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	20002511004	6
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	20002513001	2
Caesar & Loretz GmbH	Hydrated liniment SR/DAC (NR…	20002915001	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	20003002001	10
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	20003002003	2
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	20003577001	5
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	21000510003	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	21000510004	2
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	21001822001	4
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	21001823001	4
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	21002411001	1
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	21003958001	5
Caesar & Loretz GmbH	Non-ionic hydrous liniment S…	22000260001	1
CAESAR & LORETZ GMBH	Non-ionic hydrous liniment S…	22001187002	1
Caesar & Loretz GmbHAHD	Non-ionic hydrous liniment S…	19055703	1
Caesar & Loretz GmbHFie…	Non-ionic hydrous liniment S…	19055702	1
Caesar & Loretz/ Noweda	Non-ionic hydrous liniment S…	278260	1
Caesar & Loretz	Non-ionic hydrous liniment S…	17313201	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz	Non-ionic hydrous liniment S…	18086702	1
Caesar & Loretz	Non-ionic hydrous liniment S…	19136701	1
Caesar und Loretz GmbH	Non-ionic hydrous liniment S…	18050701	1
Caesar/Noweda	Non-ionic hydrous liniment S…	14173601	1
Caesar/Noweda	Non-ionic hydrous liniment S…	15326703	1
Caleo/Alliance	Non-ionic hydrous liniment S…	18278801	1
Cealo / Otto Geilenkirc…	Non-ionic hydrous liniment S…	19136701	2
Cealo/ Anzag	Non-ionic hydrous liniment S…	17144401	2
Cealo/Noweda	Non-ionic hydrous liniment S…	15096101	1
Cealo/Noweda	Non-ionic hydrous liniment S…	17027801	1
Cealo	Hydrated liniment SR/DAC (NR…	20000904002	1
Celo	Non-ionic hydrous liniment S…	16113801	1
Chiesi/Phoenix	Non-ionic hydrous liniment S…	18050701	1
Delta	Non-ionic hydrous liniment S…	18050701	1
E Plus	Non-ionic hydrous liniment S…	18001767	1
E Plus	Non-ionic hydrous liniment S…	18002887	1
E Plus	Non-ionic hydrous liniment S…	309802	1
Ebert & Jacobi	Non-ionic hydrous liniment S…	18005541	1
Ebert u. Jacobi 16.0…	Non-ionic hydrous liniment S…	300864	1
Eigen	Non-ionic hydrous liniment S…		1
eigene Herstellung 5.8…	Non-ionic hydrous liniment S…	20200805	1
Eigene Herstellung	Non-ionic hydrous liniment S…	1546	1
Eigene Herstellung	Non-ionic hydrous liniment S…	1567	1
Eigenherstellung	Non-ionic hydrous liniment S…	RD200731-0001	1
Euro OTC	Non-ionic hydrous liniment S…	15192401	1
Euro OTC	Non-ionic hydrous liniment S…	16218301	2
Euro OTC	Non-ionic hydrous liniment S…	16C190716	1
Euro OTC	Hydrated liniment SR/DAC (NR…	17A010419	1
Euro OTC	Hydrated liniment SR/DAC (NR…	18004547	1
Euro OTC	Non-ionic hydrous liniment S…	18050701	2
Euro OTC	Hydrated liniment SR/DAC (NR…	18313901	1
Euro OTC	Hydrated liniment SR/DAC (NR…	19004641	1
Euro OTC	Hydrated liniment SR/DAC (NR…	300968	1
Euro OTC	Non-ionic hydrous liniment S…	307684	1
Euro OTC	Non-ionic hydrous liniment S…	309802	1
Euro OTC	Hydrated liniment SR/DAC (NR…	310644	1
Euro OTC	Hydrated liniment SR/DAC (NR…	33A210513	1
Euro OTC	Hydrated liniment SR/DAC (NR…	42B160615	1
Euro OTC	Non-ionic hydrous liniment S…	4A190218	1
Euro OTC	Non-ionic hydrous liniment S…	6A120318	1
Euro OTC	Hydrated liniment SR/DAC (NR…	70B191118	1
Euro Pharmachem/Phönix	Hydrated liniment SR/DAC (NR…	110315	1
Fagron	Non-ionic hydrous liniment S…	122304	1
Fagron	Non-ionic hydrous liniment S…	123304	2
Fagron	Non-ionic hydrous liniment S…	125304	1
Fagron	Non-ionic hydrous liniment S…	14350703	1
Fagron	Non-ionic hydrous liniment S…	16113901	1
Fagron	Hydrated liniment SR/DAC (NR…	16182403	1
Fagron	Non-ionic hydrous liniment S…	17001403	1
Fagron	Non-ionic hydrous liniment S…	17027801	1
Fagron	Hydrated liniment SR/DAC (NR…	17A030314	1
Fagron	Non-ionic hydrous liniment S…	18000059	2
Fagron	Non-ionic hydrous liniment S…	1805070	1
Fagron	Non-ionic hydrous liniment S…	18086801	1
Fagron	Non-ionic hydrous liniment S…	18174501	2
Fagron	Non-ionic hydrous liniment S…	18233201	1
Fagron	Non-ionic hydrous liniment S…	18278801	1
Fagron	Non-ionic hydrous liniment S…	20000989	1
Fagron	Hydrated liniment SR/DAC (NR…	24A080518	1
Fagron	Non-ionic hydrous liniment S…	257210	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Non-ionic hydrous liniment S…	258210	1
Fagron	Non-ionic hydrous liniment S…	27301	1
Fagron	Non-ionic hydrous liniment S…	288452	1
Fagron	Hydrated liniment SR/DAC (NR…	289863	1
Fagron	Hydrated liniment SR/DAC (NR…	294434	1
Fagron	Non-ionic hydrous liniment S…	296111	2
Fagron	Non-ionic hydrous liniment S…	301558	1
Fagron	Hydrated liniment SR/DAC (NR…	302933	1
Fagron	Non-ionic hydrous liniment S…	307684	1
Fagron	Non-ionic hydrous liniment S…	310358	1
Fagron	Non-ionic hydrous liniment S…	311038	1
Fagron	Non-ionic hydrous liniment S…	311040	1
Fagron	Non-ionic hydrous liniment S…	311041	1
Fagron	Non-ionic hydrous liniment S…	5A110315	1
Fiebig	Non-ionic hydrous liniment S…	17312601	1
Fiebig	Non-ionic hydrous liniment S…	18050701	1
Fiebig	Non-ionic hydrous liniment S…	18153501	1
Gehe / PKH	Non-ionic hydrous liniment S…	5A150419	1
Gehe 18.08.14	Non-ionic hydrous liniment S…	288387	4
Gehe amax	Non-ionic hydrous liniment S…	18005144	1
Gehe amax	Non-ionic hydrous liniment S…	19001298	1
Gehe amax	Non-ionic hydrous liniment S…	19002806	1
Gehe amax	Non-ionic hydrous liniment S…	19004234	1
Gehe amax	Hydrated liniment SR/DAC (NR…	34B200515	1
Gehe Kassel	Non-ionic hydrous liniment S…	15014601	2
Gehe/18.08.14	Hydrated liniment SR/DAC (NR…	42A020614	3
GEHE/LEYH Parma/09.04.2…	Hydrated liniment SR/DAC (NR…	134211	2
Gehe/Pharmachem /13.06.…	Hydrated liniment SR/DAC (NR…	250412	1
GEHE/Pharmachem/20.04.2…	Hydrated liniment SR/DAC (NR…	91211	1
GEHE	Non-ionic hydrous liniment S…	14A260617	1
Gehe	Non-ionic hydrous liniment S…	15192401	2
Gehe	Non-ionic hydrous liniment S…	15326702	1
Gehe	Non-ionic hydrous liniment S…	16021601	1
Gehe	Non-ionic hydrous liniment S…	16318801	1
GEHE	Non-ionic hydrous liniment S…	16A020817	1
GEHE	Non-ionic hydrous liniment S…	17001403	1
Gehe	Hydrated liniment SR/DAC (NR…	17001837	1
Gehe	Hydrated liniment SR/DAC (NR…	17001841	3
Gehe	Non-ionic hydrous liniment S…	17027801	1
Gehe	Non-ionic hydrous liniment S…	17064402	1
Gehe	Non-ionic hydrous liniment S…	17064404	1
Gehe	Non-ionic hydrous liniment S…	17175201	1
Gehe	Non-ionic hydrous liniment S…	17312501	1
GEHE	Non-ionic hydrous liniment S…	17312501	1
GEHE	Non-ionic hydrous liniment S…	18000054	1
Gehe	Non-ionic hydrous liniment S…	18000058	1
GEHE	Non-ionic hydrous liniment S…	18002332	1
Gehe	Hydrated liniment SR/DAC (NR…	18002960	1
GEHE	Non-ionic hydrous liniment S…	18003529	1
GEHE	Non-ionic hydrous liniment S…	18004188	1
Gehe	Hydrated liniment SR/DAC (NR…	18004546	1
Gehe	Hydrated liniment SR/DAC (NR…	18005584	1
GEHE	Non-ionic hydrous liniment S…	18006450	1
Gehe	Non-ionic hydrous liniment S…	18006453	1
Gehe	Non-ionic hydrous liniment S…	18050701	2
GEHE	Non-ionic hydrous liniment S…	18050701	2
Gehe	Non-ionic hydrous liniment S…	18050702	1
Gehe	Non-ionic hydrous liniment S…	1815301	1
Gehe	Non-ionic hydrous liniment S…	18174501	1
Gehe	Non-ionic hydrous liniment S…	1823201	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Non-ionic hydrous liniment S...	18278801	1
GEHE	Non-ionic hydrous liniment S...	19001296	3
Gehe	Hydrated liniment SR/DAC (NR...	19001959	3
Gehe	Non-ionic hydrous liniment S...	19004234	2
Gehe	Non-ionic hydrous liniment S...	19055703	1
Gehe	Non-ionic hydrous liniment S...	19136701	1
Gehe	Hydrated liniment SR/DAC (NR...	191511	1
Gehe	Hydrated liniment SR/DAC (NR...	193521	1
Gehe	Hydrated liniment SR/DAC (NR...	20005301	2
Gehe	Non-ionic hydrous liniment S...	21000622	1
Gehe	Hydrated liniment SR/DAC (NR...	21002562	1
Gehe	Hydrated liniment SR/DAC (NR...	21003859	1
GEHE	Non-ionic hydrous liniment S...	21A250917	1
Gehe	Hydrated liniment SR/DAC (NR...	22B060519	1
GEHE	Non-ionic hydrous liniment S...	24A231116	1
Gehe	Non-ionic hydrous liniment S...	25A071217	1
Gehe	Non-ionic hydrous liniment S...	269845	1
Gehe	Non-ionic hydrous liniment S...	269846	1
Gehe	Non-ionic hydrous liniment S...	271303	1
Gehe	Non-ionic hydrous liniment S...	272611	1
Gehe	Non-ionic hydrous liniment S...	274014	1
Gehe	Non-ionic hydrous liniment S...	275792	1
Gehe	Non-ionic hydrous liniment S...	278253	2
Gehe	Non-ionic hydrous liniment S...	279498	2
GEHE	Non-ionic hydrous liniment S...	27A181217	1
Gehe	Non-ionic hydrous liniment S...	280873	1
Gehe	Non-ionic hydrous liniment S...	280877	1
Gehe	Non-ionic hydrous liniment S...	282335	1
Gehe	Non-ionic hydrous liniment S...	284236	1
Gehe	Hydrated liniment SR/DAC (NR...	284338	1
Gehe	Non-ionic hydrous liniment S...	285024	1
Gehe	Non-ionic hydrous liniment S...	289205	1
GEHE	Non-ionic hydrous liniment S...	2A010217	3
Gehe	Non-ionic hydrous liniment S...	2A1700118	1
GEHE	Non-ionic hydrous liniment S...	2A170118	1
Gehe	Non-ionic hydrous liniment S...	306361	1
GEHE	Non-ionic hydrous liniment S...	307684	1
Gehe	Non-ionic hydrous liniment S...	310641	1
Gehe	Hydrated liniment SR/DAC (NR...	310642	1
Gehe	Hydrated liniment SR/DAC (NR...	310643	1
Gehe	Hydrated liniment SR/DAC (NR...	6B260115	1
Gehe	Non-ionic hydrous liniment S...	81019	1
Hageda	Non-ionic hydrous liniment S...	19002441	1
Hageda	Non-ionic hydrous liniment S...	20000424	1
Hageda	Non-ionic hydrous liniment S...	20000988	1
Hageda	Non-ionic hydrous liniment S...	20002762	1
Hedinger	Non-ionic hydrous liniment S...	107312501	1
Hedinger	Non-ionic hydrous liniment S...	P2018/118	1
Henry Lamotte Oils	Non-ionic hydrous liniment S...	284234	1
hochhaus-Apotheke	Non-ionic hydrous liniment S...	16318801	1
hochhaus-Apotheke	Non-ionic hydrous liniment S...	2116617027801	1
Ichthyol/Phönix	Non-ionic hydrous liniment S...	16113901	2
Infectopharm / Noweda	Hydrated liniment SR/DAC (NR...	18001660	4
jenne	Non-ionic hydrous liniment S...	18050701	2
jenne	Non-ionic hydrous liniment S...	297176	2
Kehr/ PKH GmbH	Non-ionic hydrous liniment S...	14A260617	1
Kehr/ PKH GmbH	Non-ionic hydrous liniment S...	15A170718	1
Kehr	Non-ionic hydrous liniment S...	14A260617	1
Kehr	Non-ionic hydrous liniment S...	16A170718	1
Kehr	Non-ionic hydrous liniment S...	22A231017	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Kehr	Hydrated liniment SR/DAC (NR...	56B210817	1
Lamotte/Sanacorp	Non-ionic hydrous liniment S...	18106503	1
Leyh Phama	Hydrated liniment SR/DAC (NR...	154111	1
Leyh Pharma / Alliance ...	Hydrated liniment SR/DAC (NR...	153511	1
Leyh Pharma / Phönix	Hydrated liniment SR/DAC (NR...	174431	1
Leyh Pharma / Phönix	Hydrated liniment SR/DAC (NR...	183651	1
Leyh Pharma / Phönix	Hydrated liniment SR/DAC (NR...	191511	1
Leyh Pharma GmbH / Alli...	Hydrated liniment SR/DAC (NR...	191511	1
Leyh Pharma GmbH / Phönix	Hydrated liniment SR/DAC (NR...	181831	2
Leyh Pharma GmbH / Phönix	Hydrated liniment SR/DAC (NR...	193521	3
Leyh Pharma GmbH Brotte...	Hydrated liniment SR/DAC (NR...	201641	3
Leyh Pharma GmbH Brotte...	Hydrated liniment SR/DAC (NR...	191021	1
Leyh Pharma GmbH Brotte...	Hydrated liniment SR/DAC (NR...	191511	1
Leyh Pharma GmbH Brotte...	Hydrated liniment SR/DAC (NR...	193521	3
Leyh Pharma GmbH Brotte...	Hydrated liniment SR/DAC (NR...	194721	1
Leyh Pharma GmbH Brotte...	Hydrated liniment SR/DAC (NR...	203951	1
Leyh Pharma GmbH Brotte...	Hydrated liniment SR/DAC (NR...	210211	1
LEYH PHARMA GmbH/Allian...	Hydrated liniment SR/DAC (NR...	202751	1
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	110531	1
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	173041	1
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	181831	1
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	183651	1
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	183731	1
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	191021	2
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	193031	1
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	193521	2
Leyh pharma GmbH	Hydrated liniment SR/DAC (NR...	200751	1
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	201641	1
Leyh Pharma GmbH	Hydrated liniment SR/DAC (NR...	203951	1
Leyh Pharma Gmbh	Non-ionic hydrous liniment S...	27A111218	1
leyh Pharma/ Sanacorp	Hydrated liniment SR/DAC (NR...	124941	1
Leyh pharma/AHD/23.10.19	Hydrated liniment SR/DAC (NR...	193521	1
Leyh Pharma/Anzag/16.12...	Hydrated liniment SR/DAC (NR...	194721	1
Leyh Pharma/Noweda	Hydrated liniment SR/DAC (NR...	164021	1
Leyh Pharma/Phönix	Hydrated liniment SR/DAC (NR...	174431	1
Leyh Pharma/Sanacorp	Hydrated liniment SR/DAC (NR...	164641	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	151621	1
Leyh Pharma	Non-ionic hydrous liniment S...	153811	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	155041	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	160551	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	161421	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	162141	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	162741	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	170631	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	171411	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	172121	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	173051	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	174431	5
Leyh Pharma	Hydrated liniment SR/DAC (NR...	180141	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	181151	2
Leyh Pharma	Hydrated liniment SR/DAC (NR...	181831	1
Leyh Pharma	Hydrated liniment SR/DAC (NR...	182841	2
Leyh Pharma	Hydrated liniment SR/DAC (NR...	4580715	1
Leyh/Gehe	Hydrated liniment SR/DAC (NR...	131121	1
Leyh	Hydrated liniment SR/DAC (NR...	124941	1
Leyh	Hydrated liniment SR/DAC (NR...	153511	1
Leyh	Hydrated liniment SR/DAC (NR...	162141	2
Leyh-Pharma GmbH	Hydrated liniment SR/DAC (NR...	133721	1
Leyh-Pharma GmbH	Hydrated liniment SR/DAC (NR...	142231	1
LeyhPharma/AlianceH.	Hydrated liniment SR/DAC (NR...	173051	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
LeyhPharma/AlianceH.	Hydrated liniment SR/DAC (NR...	180141	1
LeyhPharma/AllianceH.	Hydrated liniment SR/DAC (NR...	181151	1
LeyhPharma/AllianceH.	Hydrated liniment SR/DAC (NR...	191021	1
Leyhs Pharma Gmbh	Hydrated liniment SR/DAC (NR...	161121	1
Leyhs	Hydrated liniment SR/DAC (NR...	162231	1
Leyhs	Hydrated liniment SR/DAC (NR...	163541	1
Leyhs	Hydrated liniment SR/DAC (NR...	164541	2
Nachprüfung	Non-ionic hydrous liniment S...	AP210716-03	1
Noveda	Non-ionic hydrous liniment S...	19055703	1
Noweda / PKH GmbH	Non-ionic hydrous liniment S...	10C070420	1
Noweda 27.08.15	Non-ionic hydrous liniment S...	15192301	1
Noweda PKH Halle	Hydrated liniment SR/DAC (NR...	31A170619	1
Noweda PKH Halle	Hydrated liniment SR/DAC (NR...	31A290517	1
Noweda PKH Halle	Hydrated liniment SR/DAC (NR...	55A221019	1
Noweda PKH Halle	Hydrated liniment SR/DAC (NR...	7A040220	1
Noweda/AEP	Non-ionic hydrous liniment S...	309802	1
noweda/anzag	Hydrated liniment SR/DAC (NR...	15A250319	1
noweda/anzag	Non-ionic hydrous liniment S...	2A292119	1
noweda/anzag	Hydrated liniment SR/DAC (NR...	38A080719	2
Noweda/Noweda	Non-ionic hydrous liniment S...	20002988	1
Noweda/pharmachem	Non-ionic hydrous liniment S...	18233201	1
Noweda	Non-ionic hydrous liniment S...	10A150514	1
Noweda	Non-ionic hydrous liniment S...	10C010719	1
Noweda	Non-ionic hydrous liniment S...	15096002	1
Noweda	Non-ionic hydrous liniment S...	15192502	1
Noweda	Non-ionic hydrous liniment S...	15420902	1
Noweda	Non-ionic hydrous liniment S...	15421002	1
Noweda	Hydrated liniment SR/DAC (NR...	15A040315	1
Noweda	Non-ionic hydrous liniment S...	16258401	2
Noweda	Non-ionic hydrous liniment S...	16318802	2
Noweda	Non-ionic hydrous liniment S...	17208901	2
Noweda	Non-ionic hydrous liniment S...	18002335	1
Noweda	Non-ionic hydrous liniment S...	18003532	1
Noweda	Non-ionic hydrous liniment S...	18005143	1
Noweda	Non-ionic hydrous liniment S...	18006453	1
Noweda	Hydrated liniment SR/DAC (NR...	180141	1
Noweda	Non-ionic hydrous liniment S...	18050701	1
Noweda	Non-ionic hydrous liniment S...	18050702	2
Noweda	Non-ionic hydrous liniment S...	18086801	1
Noweda	Non-ionic hydrous liniment S...	18233201	1
Noweda	Non-ionic hydrous liniment S...	18278801	1
Noweda	Non-ionic hydrous liniment S...	18278901	1
Noweda	Non-ionic hydrous liniment S...	19000521	1
Noweda	Non-ionic hydrous liniment S...	19002441	1
Noweda	Non-ionic hydrous liniment S...	19004301	1
Noweda	Non-ionic hydrous liniment S...	19004501	1
Noweda	Non-ionic hydrous liniment S...	19005453	1
Noweda	Non-ionic hydrous liniment S...	19006550	1
Noweda	Hydrated liniment SR/DAC (NR...	191021	1
Noweda	Non-ionic hydrous liniment S...	19136701	2
Noweda	Non-ionic hydrous liniment S...	19136702	1
Noweda	Non-ionic hydrous liniment S...	200002511004	1
Noweda	Non-ionic hydrous liniment S...	20001330	1
Noweda	Non-ionic hydrous liniment S...	20002988	1
Noweda	Non-ionic hydrous liniment S...	20003002001	1
Noweda	Non-ionic hydrous liniment S...	20004409	2
Noweda	Non-ionic hydrous liniment S...	22A101114	1
Noweda	Non-ionic hydrous liniment S...	25A191213	1
Noweda	Non-ionic hydrous liniment S...	271243	1
Noweda	Non-ionic hydrous liniment S...	274820	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Non-ionic hydrous liniment S...	281562	1
Noweda	Non-ionic hydrous liniment S...	285795	1
Noweda	Non-ionic hydrous liniment S...	287323	1
Noweda	Non-ionic hydrous liniment S...	292618	1
Noweda	Non-ionic hydrous liniment S...	296109	1
Noweda	Hydrated liniment SR/DAC (NR...	304844	2
Noweda	Hydrated liniment SR/DAC (NR...	307263	1
Noweda	Non-ionic hydrous liniment S...	308628	1
Noweda	Hydrated liniment SR/DAC (NR...	39B150719	1
Noweda	Hydrated liniment SR/DAC (NR...	74A261015	1
Noweda	Non-ionic hydrous liniment S...	7A070320	2
Noweda	Non-ionic hydrous liniment S...	7A300419	1
Noweda	Non-ionic hydrous liniment S...	8A080415	1
Pharmachem / AHD	Hydrated liniment SR/DAC (NR...	307264	1
Pharmachem / Gehe	Non-ionic hydrous liniment S...	91118	1
Pharmachem GmbH & Co KG	Hydrated liniment SR/DAC (NR...	100315	4
Pharmachem GmbH Pößneck	Hydrated liniment SR/DAC (NR...	190416	1
Pharmachem GmbH und Co.KG	Hydrated liniment SR/DAC (NR...	160129	1
Pharmachem GmbH/Phönix	Hydrated liniment SR/DAC (NR...	30815	1
Pharmachem Gmbh	Hydrated liniment SR/DAC (NR...	20614	2
Pharmachem Pößneck GmbH...	Hydrated liniment SR/DAC (NR...	10916	1
Pharmachem Pößneck GmbH...	Hydrated liniment SR/DAC (NR...	141016	1
Pharmachem Pößneck GmbH...	Hydrated liniment SR/DAC (NR...	250516	2
Pharmachem Pößneck	Hydrated liniment SR/DAC (NR...	270918	1
Pharmachem/ Anzag	Hydrated liniment SR/DAC (NR...	301018	1
Pharmachem/ Noweda	Hydrated liniment SR/DAC (NR...	310715	1
Pharmachem/Alliance Hea...	Hydrated liniment SR/DAC (NR...	70717	1
Pharmachem/Anzag/10.07....	Hydrated liniment SR/DAC (NR...	60513	1
Pharmachem/ANZAG/27.03....	Hydrated liniment SR/DAC (NR...	210113	1
Pharmachem/Noweda	Hydrated liniment SR/DAC (NR...	10916	1
Pharmachem/Phoenix	Non-ionic hydrous liniment S...	10218	1
Pharmachem/Phoenix	Non-ionic hydrous liniment S...	10819	1
Pharmachem/Phoenix	Non-ionic hydrous liniment S...	110418	1
Pharmachem/Phoenix	Non-ionic hydrous liniment S...	200618	1
Pharmachem/Phoenix	Non-ionic hydrous liniment S...	290419	1
Pharmachem/Phoenix	Non-ionic hydrous liniment S...	9118	1
Pharmachem/Phönix	Hydrated liniment SR/DAC (NR...	160115	1
Pharmachem/Phönix	Hydrated liniment SR/DAC (NR...	190416	1
Pharmachem/Phönix	Hydrated liniment SR/DAC (NR...	21013	1
Pharmachem/Phönix	Hydrated liniment SR/DAC (NR...	50318	2
PharmaChem	Non-ionic hydrous liniment S...	140814	1
Pharmachem	Hydrated liniment SR/DAC (NR...	160115	1
Pharmachem	Hydrated liniment SR/DAC (NR...	160129	1
Pharmachem	Hydrated liniment SR/DAC (NR...	190416	1
Pharmachem	Hydrated liniment SR/DAC (NR...	300415	1
Pharmachem	Non-ionic hydrous liniment S...	309802	1
Pharmachem	Hydrated liniment SR/DAC (NR...	41119	2
PHK GmbH	Hydrated liniment SR/DAC (NR...	66A160913	1
PHK GmbH	Hydrated liniment SR/DAC (NR...	71A291013	2
Phoenix (PKH Halle)	Hydrated liniment SR/DAC (NR...	5A210113	1
Phoenix (PKH Halle)	Hydrated liniment SR/DAC (NR...	7A290113	1
Phoenix 21.06.2017 2,78EUR	Non-ionic hydrous liniment S...	17064402	1
Phoenix 24.04.2018 4,68EUR	Non-ionic hydrous liniment S...	18000058	1
Phoenix 24.04.2019 2,65EUR	Non-ionic hydrous liniment S...	19055703	1
Phoenix 25.04.2018 4,63EUR	Non-ionic hydrous liniment S...	1800058	1
Phoenix	Non-ionic hydrous liniment S...	110418	2
Phoenix	Non-ionic hydrous liniment S...	16318801	1
Phoenix	Hydrated liniment SR/DAC (NR...	17000560	2
Phoenix	Non-ionic hydrous liniment S...	17261101	1
Phoenix	Hydrated liniment SR/DAC (NR...	18002960	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Hydrated liniment SR/DAC (NR...	18005585	1
Phoenix	Non-ionic hydrous liniment S...	18050701	1
Phoenix	Non-ionic hydrous liniment S...	18086702	1
Phoenix	Non-ionic hydrous liniment S...	18233201	1
Phoenix	Non-ionic hydrous liniment S...	19001298	1
Phoenix	Non-ionic hydrous liniment S...	191312111	1
Phoenix	Non-ionic hydrous liniment S...	19201401	2
Phoenix	Non-ionic hydrous liniment S...	20002513001	1
Phoenix	Non-ionic hydrous liniment S...	20003826	1
Phoenix	Non-ionic hydrous liniment S...	200132101	1
Phoenix	Hydrated liniment SR/DAC (NR...	200842808	1
Phoenix	Hydrated liniment SR/DAC (NR...	21002123004	1
Phoenix	Non-ionic hydrous liniment S...	21003176	1
Phoenix	Non-ionic hydrous liniment S...	21004485	1
Phoenix	Non-ionic hydrous liniment S...	300860	1
Phoenix	Non-ionic hydrous liniment S...	302283	1
Phoenix	Non-ionic hydrous liniment S...	3027	1
Phoenix	Non-ionic hydrous liniment S...	303895	1
phoenix	Non-ionic hydrous liniment S...	309791	1
Phoenix	Non-ionic hydrous liniment S...	3128	1
Phoenix	Non-ionic hydrous liniment S...	3196	1
Phoenix	Non-ionic hydrous liniment S...	3371	1
Phoenix	Non-ionic hydrous liniment S...	3373	1
Phoenix	Non-ionic hydrous liniment S...	91118	2
Phönix (PKH Halle)	Non-ionic hydrous liniment S...	16A060812	1
Phönix (PKH Halle)	Hydrated liniment SR/DAC (NR...	60A020812	1
Phönix Gotha	Non-ionic hydrous liniment S...	12A200819	1
Phönix Gotha	Non-ionic hydrous liniment S...	17312501	1
Phönix Gotha	Hydrated liniment SR/DAC (NR...	174431	1
Phönix Gotha	Hydrated liniment SR/DAC (NR...	181831	1
Phönix Gotha	Hydrated liniment SR/DAC (NR...	182841	1
Phönix Gotha	Hydrated liniment SR/DAC (NR...	191021	1
Phönix Gotha	Non-ionic hydrous liniment S...	270008	1
Phönix Gotha	Non-ionic hydrous liniment S...	273375	2
Phönix Gotha	Hydrated liniment SR/DAC (NR...	274014	1
Phönix Gotha	Hydrated liniment SR/DAC (NR...	275789	1
Phönix Gotha	Non-ionic hydrous liniment S...	275792	1
Phönix Gotha	Non-ionic hydrous liniment S...	278255	1
Phönix Gotha	Hydrated liniment SR/DAC (NR...	279496	1
Phönix Gotha	Non-ionic hydrous liniment S...	281559	2
Phönix Gotha	Non-ionic hydrous liniment S...	282946	1
Phönix Gotha	Non-ionic hydrous liniment S...	287316	1
Phönix Gotha	Non-ionic hydrous liniment S...	290610	1
Phönix Gotha	Non-ionic hydrous liniment S...	292617	1
Phönix Gotha	Non-ionic hydrous liniment S...	295072	1
Phönix Gotha	Non-ionic hydrous liniment S...	296108	1
Phönix/Gehe	Non-ionic hydrous liniment S...	18106503	1
Phönix/Leyh Pharma	Hydrated liniment SR/DAC (NR...	182841	2
Phönix/Leyh Pharma	Hydrated liniment SR/DAC (NR...	183651	1
Phönix	Hydrated liniment SR/DAC (NR...		1
Phönix	Non-ionic hydrous liniment S...	16318801	1
Phönix	Non-ionic hydrous liniment S...	17001410	1
phönix	Non-ionic hydrous liniment S...	17027801	1
Phönix	Non-ionic hydrous liniment S...	17175201	2
Phönix	Non-ionic hydrous liniment S...	17312501	2
Phönix	Hydrated liniment SR/DAC (NR...	174431	1
Phönix	Non-ionic hydrous liniment S...	18006454	2
Phönix	Non-ionic hydrous liniment S...	19055702	1
Phönix	Non-ionic hydrous liniment S...	19055703	2
Phönix	Non-ionic hydrous liniment S...	20000988	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Non-ionic hydrous liniment S...	20002000	1
Phönix	Non-ionic hydrous liniment S...	200962209	1
Phönix	Non-ionic hydrous liniment S...	307684	1
PHÖNIX	Non-ionic hydrous liniment S...	311040	1
Phönix	Non-ionic hydrous liniment S...	311611	1
Phönix	Non-ionic hydrous liniment S...	3173	1
Phönix	Hydrated liniment SR/DAC (NR...	39A190617	1
Phönix	Hydrated liniment SR/DAC (NR...	67B301017	1
PhR Neidhard/Noweda	Hydrated liniment SR/DAC (NR...	7A040220	1
PKH / Phoenix Leipzig	Hydrated liniment SR/DAC (NR...	14A040315	1
PKH Gehe	Non-ionic hydrous liniment S...	11A040618	2
PKH Gehe	Non-ionic hydrous liniment S...	17A020818	1
PKH Gehe	Non-ionic hydrous liniment S...	20A301219	1
PKH Gehe	Non-ionic hydrous liniment S...	25A071217	1
PKH Gehe	Non-ionic hydrous liniment S...	27A111218	1
PKH Gehe	Non-ionic hydrous liniment S...	4A190218	1
PKH GmbH / Phönix	Non-ionic hydrous liniment S...	11B270515	1
PKH GmbH / Phönix	Hydrated liniment SR/DAC (NR...	27B030619	1
PKH GmbH / Phönix	Hydrated liniment SR/DAC (NR...	58B030918	1
PKH GmbH Halle/ AHD	Hydrated liniment SR/DAC (NR...	45A200819	1
PKH GmbH/ Alliance Heal...	Non-ionic hydrous liniment S...	15A170718	1
PKH GmbH/ Alliance Heal...	Non-ionic hydrous liniment S...	6A120318	1
PKH GmbH/ Phönix	Hydrated liniment SR/DAC (NR...	23A020413	1
PKH GmbH/ Sanacorp	Hydrated liniment SR/DAC (NR...	78B031213	1
PKH GmbH/Kehr	Non-ionic hydrous liniment S...	24A231116	1
PKH GmbH/Kehr	Hydrated liniment SR/DAC (NR...	588181119	1
PKH Gmbh/Phoenix	Non-ionic hydrous liniment S...	18A031219	1
PKH Gmbh/Phoenix	Non-ionic hydrous liniment S...	200110	1
PKH GmbH	Non-ionic hydrous liniment S...	12a200616	1
PKH GmbH	Non-ionic hydrous liniment S...	12A200819	1
PKH GmbH	Non-ionic hydrous liniment S...	17A140817	1
PKH GmbH	Non-ionic hydrous liniment S...	21A241016	1
PKH GmbH	Non-ionic hydrous liniment S...	22A251016	1
PKH GmbH	Non-ionic hydrous liniment S...	25A071217	1
PKH GmbH	Non-ionic hydrous liniment S...	27A291215	1
PKH GmbH	Hydrated liniment SR/DAC (NR...	35A120617	1
PKH GmbH	Non-ionic hydrous liniment S...	6B180315	1
PKH GmbH	Non-ionic hydrous liniment S...	7A300316	1
PKH Halle / Noweda	Non-ionic hydrous liniment S...	10B010719	1
PKH Halle / Phoenix	Non-ionic hydrous liniment S...	10A150514	1
PKH Halle / Phoenix	Hydrated liniment SR/DAC (NR...	15A050313	1
PKH Halle / Phoenix	Non-ionic hydrous liniment S...	15A140714	1
PKH Halle / Phoenix	Non-ionic hydrous liniment S...	15A150715	1
PKH Halle / Phoenix	Non-ionic hydrous liniment S...	17A230913	1
PKH Halle / Phoenix	Hydrated liniment SR/DAC (NR...	22A250314	1
PKH Halle / Phoenix	Non-ionic hydrous liniment S...	25A021214	1
PKH Halle / Phoenix	Hydrated liniment SR/DAC (NR...	2A120115	1
PKH Halle / Phoenix	Hydrated liniment SR/DAC (NR...	44A220615	1
PKH Halle / Phoenix	Hydrated liniment SR/DAC (NR...	45A170614	1
PKH Halle / Phoenix	Non-ionic hydrous liniment S...	4A110313	1
PKH Halle / Phoenix	Non-ionic hydrous liniment S...	4A250214	1
PKH Halle / Phoenix	Hydrated liniment SR/DAC (NR...	59A050814	1
PKH Halle / Phoenix	Hydrated liniment SR/DAC (NR...	5A190115	1
PKH Halle / Phoenix	Hydrated liniment SR/DAC (NR...	71A291013	2
PKH Halle,Anzag	Non-ionic hydrous liniment S...	20A221012	1
PKH Halle,Phönix	Non-ionic hydrous liniment S...	17A030912	1
PKH Halle/ Alliance Hea...	Hydrated liniment SR/DAC (NR...	11A270218	1
PKH Halle/ Alliance Hea...	Hydrated liniment SR/DAC (NR...	8A050218	1
PKH Halle/ GEHE	Hydrated liniment SR/DAC (NR...	3A080118	1
PKH Halle/ Noweda	Hydrated liniment SR/DAC (NR...	41A150719	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
PKH Halle/ Noweda	Hydrated liniment SR/DAC (NR...	49A300718	1
PKH Halle/ Noweda	Hydrated liniment SR/DAC (NR...	57A041119	2
PKH Halle/ Phoenix / 12...	Hydrated liniment SR/DAC (NR...	33a090516	1
PKH Halle/ Phoenix Lepz...	Non-ionic hydrous liniment S...	10A110515	1
PKH Halle/ Phoenix Lepz...	Non-ionic hydrous liniment S...	8A250417	2
PKH Halle/ Phoenix Lepz...	Hydrated liniment SR/DAC (NR...	47A060715	1
PKH Halle/AHD	Non-ionic hydrous liniment S...	24A081018	1
PKH Halle/AHD	Non-ionic hydrous liniment S...	3A060319	1
PKH Halle/Holdermann	Non-ionic hydrous liniment S...	10A100517	1
PKH Halle/Kehr	Hydrated liniment SR/DAC (NR...		1
PKH Halle/Noweda	Non-ionic hydrous liniment S...	15C080620	1
PKH Halle/Noweda	Non-ionic hydrous liniment S...	25A081215	1
PKH Halle/Noweda	Non-ionic hydrous liniment S...	4A190218	1
PKH Halle/Phönix	Non-ionic hydrous liniment S...	10B070420	1
PKH Halle/Phönix	Non-ionic hydrous liniment S...	12A200616	1
PKH Halle	Non-ionic hydrous liniment S...	13A200616	1
PKH Halle	Non-ionic hydrous liniment S...	13A260618	1
PKH Halle	Non-ionic hydrous liniment S...	16A080620	1
PKH Halle	Non-ionic hydrous liniment S...	16A081019	1
PKH Halle	Non-ionic hydrous liniment S...	17A020818	1
PKH Halle	Non-ionic hydrous liniment S...	22A020920	1
PKH Halle	Hydrated liniment SR/DAC (NR...	24A310314	1
PKH Halle	Non-ionic hydrous liniment S...	27A181217	1
PKH Halle	Non-ionic hydrous liniment S...	2A200120	1
PKH Halle	Hydrated liniment SR/DAC (NR...	30B250520	1
PKH Halle	Hydrated liniment SR/DAC (NR...	42A020614	1
PKH Halle	Hydrated liniment SR/DAC (NR...	56A120813	4
PKH Halle	Hydrated liniment SR/DAC (NR...	69A080914	1
PKH Halle	Non-ionic hydrous liniment S...	6A120312	1
PKH Halle	Hydrated liniment SR/DAC (NR...	72A101016	1
PKH Halle	Non-ionic hydrous liniment S...	7A300419	1
PKH Halle	Hydrated liniment SR/DAC (NR...	85A281215	1
pkh, Phönix	Hydrated liniment SR/DAC (NR...	14B170214	1
pkh, Phönix	Hydrated liniment SR/DAC (NR...	32A120515	1
PKH/ Phoenix Leipzig 04...	Hydrated liniment SR/DAC (NR...	24a080518	1
PKH/Noweda	Non-ionic hydrous liniment S...	21A250917	1
PKH/Phönix	Non-ionic hydrous liniment S...	9A190516	1
Pößneeck Pharma / Gehe	Non-ionic hydrous liniment S...	23A181115	2
Raben-Apotheke Mildenau	Hydrated liniment SR/DAC (NR...	49A230614	1
Raben-Apotheke Mildenau	Hydrated liniment SR/DAC (NR...	63A120814	2
Rabenapotheke	Hydrated liniment SR/DAC (NR...	76A271014	1
Rondell Apotheke	Non-ionic hydrous liniment S...	297175	1
Rosen-Apotheke	Non-ionic hydrous liniment S...	20002511003	1
Sanacorp 21.10.15 und...	Non-ionic hydrous liniment S...	15192301	1
Sanacorp/ Leyh Pharma	Hydrated liniment SR/DAC (NR...	115051	1
Sanacorp/ Leyh Pharma	Hydrated liniment SR/DAC (NR...	122141	1
Sanacorp/ Leyh Pharma	Hydrated liniment SR/DAC (NR...	123011	1
Sanacorp	Non-ionic hydrous liniment S...	15002302	1
Sanacorp	Non-ionic hydrous liniment S...	15014601	1
sanacorp	Non-ionic hydrous liniment S...	15096002	1
Sanacorp	Hydrated liniment SR/DAC (NR...	16182403	1
Sanacorp	Non-ionic hydrous liniment S...	16318801	1
Sanacorp	Non-ionic hydrous liniment S...	17064402	1
Sanacorp	Non-ionic hydrous liniment S...	17312501	2
Sanacorp	Hydrated liniment SR/DAC (NR...	18109002	1
Sanacorp	Hydrated liniment SR/DAC (NR...	21B060420	1
sanacorp	Hydrated liniment SR/DAC (NR...	24A310314	1
Sanacorp	Non-ionic hydrous liniment S...	274820	1
Sanacorp	Hydrated liniment SR/DAC (NR...	275869	1
Sanacorp	Non-ionic hydrous liniment S...	279500	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Non-ionic hydrous liniment S...	279501	1
Sanacorp	Hydrated liniment SR/DAC (NR...	2A120115	1
Sanacorp	Non-ionic hydrous liniment S...	8/AKD101	1
Selbsthersteller	Non-ionic hydrous liniment S...	20140116	1
Th. Geyer	Non-ionic hydrous liniment S...	27A111218	1
wepa/Sanaco	Non-ionic hydrous liniment S...	1542102	1
Wolf Apotheke	Non-ionic hydrous liniment S...	28(18006449)	1
Wolf-Apotheke	Non-ionic hydrous liniment S...	285793	1
Wolff/Gehe	Non-ionic hydrous liniment S...	19004301	1

- 291 202 spectra from 1323 *Apo-Ident* customers from a total of 51 423 batches from a further 342 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Liniment ointments* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Liniment ointments* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	1040	0	67 459
Type B	0	2706	4	108 603
Type C	0	6075	181	291 095

The substance/substance group *Liniment ointments* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.4231 %)
Type B	100.0000 % (> 99.9678 %)	99.8524 % (> 99.7417 %)
Type C	100.0000 % (> 99.6864 %)	97.1068 % (> 97.0588 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Liniment ointments* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Substance	Distance in main model	Distance in second-stage model
Hydrophilic cream, non-ionic SR (NRF p...	18.98	–
Hydrophilic cream, non-ionic without p...	25.29	–
Base cream, hydrophobic DAC	26.18	–
Sodium laureth sulfate solution 27%	27.20	–
Anionic hydrophlic cream without prese...	27.26	–
Anionic hydrophilic cream SR (NRF p.27)	28.91	–
Hydrophilic base emulsion (NRF p.25)	29.25	–
Glycolic acid 70%	29.95	–
Anionic hydrophilic cream with propyle...	30.19	–
Anionic hydrophilic cream DAB	31.44	–
Wolff® base half-fat cream	34.18	–
Sodium-(s)-lactate solution 50%	35.08	–
Skin care ointment W/L SR (without pre...	36.08	–
Base cream, diluted	40.93	–
Lotio Cordes®	44.22	–
Skin care ointment W/L SR	46.16	–
Gel Cordes®	47.90	–
Liquorice juice purified, diluted	49.56	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Liniment ointments* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30982	31939	7.91	36.42
31169	31169	0.00	36.58
31170	31170	0.00	41.37
31438	31938	3.29	39.00
31476	31945	5.58	40.25
31827	31947	2.20	39.47
31830	31947	1.09	36.49
31938	31938	0.00	42.28
31939	31939	0.00	40.29
31943	31943	0.00	36.84
31945	31945	0.00	37.53
31946	31946	0.00	38.21
31947	31947	0.00	36.88
32089	32089	0.00	43.68
32090	32090	0.00	38.27
32305	31170	5.12	35.55
32727	32089	3.75	39.48
34505	31939	5.04	39.71
35111	35111	0.00	42.03
35546	35546	0.00	44.94
35615	35615	0.00	32.53

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerc**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`10004572-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40; Lauromacrogol 400; Lauromacrogolum 400; Macrogol 4 lauryl ether; Macrogolglycerol hydroxystearate 40; Macrogolglyceroli hydroxystearas; Macrogoli aether laurilicus

Special notes

When selecting the *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40	20	19	1167

Second-stage model

For differentiation of the substance/substance group *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40* the following second-stage model is used:

- Submodel 10

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Lauromacrogol 400	13095802	31025	40	20130523
Caelo	Lauromacrogol 400	13340701	31372	40	AR-14-FG-012474-01
Caelo	Lauromacrogol 400	192957	35020	40	20200326*
Caelo	Lauromacrogol 400	21000678010	36039	40	2208570
Euro OTC	Lauromacrogol 400	1510024	31768	58	20151102*
Euro OTC	Lauromacrogol 400	1605006	32283	40	20160531*
Euro OTC	Lauromacrogol 400	1610034	32816	40	20161202*
Fagron	Lauromacrogol 400	12E03-N05	30594	40	20120608
Fagron	Lauromacrogol 400	16E18-B04-326089	32824	40	20160527
Fagron	Lauromacrogol 400	20D20-T12-076662	35150	40	20200722
Caelo	Macrogol 4 laury…	14054401	31381	40	1507230
Caelo	Macrogol 4 laury…	14225301	31583	60	20140820
Caelo	Macrogol 4 laury…	16100205	33216	40	20160527
Caelo	Macrogol 4 laury…	19000420004	35141	40	20200416
Caelo	Macrogol 4 laury…	21000436003	35737	50	20210302
Caelo	Macrogolglycerol…	14283808	31625	60	AR-15-FG-010151-01
Caelo	Macrogolglycerol…	20002214004	35140	40	20200901
Fagron	Macrogolglycerol…	12L06-N02	30765	40	1405328
Fagron	Macrogolglycerol…	21A05-F01-376301	35464	40	20210210
Fagron	Macrogolglycerol…	21A29-F02-376809	35582	50	2111538

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 878 spectra of 20 reference samples from the substance/substance group *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40*. These samples are listed above in the *calibration samples* section. The reference samples come from 20 different batches.

- 67 621 spectra from a total of 1393 batches from further 226 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 810 spectra of 19 reference samples from the substance/substance group *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40*.
- Among them are spectra of independent samples from 19 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Lauromacrogol 400	172509	33899	40
Caelo	Lauromacrogol 400	181755	34235	40
Caelo	Lauromacrogol 400	191310	34630	40
Caelo	Lauromacrogol 400	22001666	36509	40
Euro OTC	Lauromacrogol 400	1703033	33448	40
Euro OTC	Lauromacrogol 400	1710026	33844	40
Euro OTC	Lauromacrogol 400	1801043	34007	40
Euro OTC	Lauromacrogol 400	1901029	34421	40
Euro OTC	Lauromacrogol 400	1907010	34700	40
Euro OTC	Lauromacrogol 400	1911015	34749	40
Euro OTC	Lauromacrogol 400	2003031-01	35076	40
Euro OTC	Lauromacrogol 400	2007042	35132	40
Euro OTC	Lauromacrogol 400	2106011	35627	50
Euro OTC	Lauromacrogol 400	2205034	36563	40
Caelo	Macrogol 4 lauryl ether	161002	33690	40
Caelo	Macrogol 4 lauryl ether	17028303	33950	40
Caelo	Macrogolglycerol hydroxystea...	14283805	31608	60
Caelo	Macrogolglycerol hydroxystea...	16349304	33935	40
Fagron	Macrogolglycerol hydroxystea...	14K28-B01	31640	60

- 110 503 spectra from a total of 2647 batches from further 348 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 8175 spectra from 1146 *Apo-Ident* customers from 1159 batches from the substance/substance group *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40*.
- Among them are spectra of independent samples from 1090 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Macrogolglycerol hydroxystea...	13D23-N03	1
	Lauromacrogol 400	160312	1
/Sanacorp	Lauromacrogol 400	160312	1
16816637	Macrogolglycerol hydroxystea...	2100060003	1
AEP Gepepharm	Lauromacrogol 400	160312A	1
AEP	Lauromacrogol 400	19064501	1
agron/ Phönix	Lauromacrogol 400	18A18-B98-0596	1
AHD 09.12.14	Lauromacrogol 400	130109	2
AHD 21.03.16 EK 36,71	Lauromacrogol 400	140911	1
AHD, 25.07.2013	Macrogol 4 lauryl ether	13136202	1
AHD/ Spinnrad	Macrogol 4 lauryl ether	314400031	1
AHD/09.10.20 EK: 9,45EUR	Lauromacrogol 400	2003031-01	2
AHD/Gepepharm	Lauromacrogol 400	160312A	1
AHD	Lauromacrogol 400	140911	1
AHD	Macrogolglycerol hydroxystea...	14B14-B06-295486	1
AHD	Lauromacrogol 400	160312	2
AHD	Lauromacrogol 400	160312A	2
AHD	Lauromacrogol 400	19054203	1
AHD;2,32EUR;19.06.15	Macrogol 4 lauryl ether	1014400032	1
AHL	Lauromacrogol 400	160312A	1
ALH	Lauromacrogol 400	160312	6
Allianc. Health. / gepe...	Lauromacrogol 400	160312	1
Allianc. Health. / gepe...	Lauromacrogol 400	160312A	1
Allianc. Healthc./ Gepe	Lauromacrogol 400	140911	2
Alliance H.	Macrogolglycerol hydroxystea...	15378302	1
Alliance Healtcare	Lauromacrogol 400	19064501A	1
Alliance health	Macrogolglycerol hydroxystea...	14283808	1
Alliance Healthcare	Lauromacrogol 400	20001966001	1
Alliance/ gepepharm GmbH	Lauromacrogol 400	16-0290	1
Alliance	Macrogolglycerol hydroxystea...	13K07-N02	1
Alliance	Lauromacrogol 400	160312	1
Alliance	Lauromacrogol 400	19054203	3
Allianz Healthcare	Macrogolglycerol hydroxystea...	18g13-b05	1
Allianz	Lauromacrogol 400	160312A	1
Allianz	Macrogolglycerol hydroxystea...	18204507	1
Anzag 07.02.13 ek:4,70EUR	Macrogolglycerol hydroxystea...	12103807	1
anzag gepepharm	Lauromacrogol 400	160312	1
Anzag/ gepepharm GmbH	Lauromacrogol 400	182744	1
Anzag/Anzag 28.08.18	Lauromacrogol 400	17250913	1
Anzag	Lauromacrogol 400	110408	3
ANZAG	Lauromacrogol 400	110408	2
Anzag	Macrogol 4 lauryl ether	12180204	1
Anzag	Lauromacrogol 400	13A31N04	1
Anzag	Lauromacrogol 400	140911	1
Anzag	Macrogol 4 lauryl ether	15323701	1
Anzag	Lauromacrogol 400	160312	2
Anzag	Macrogolglycerol hydroxystea...	16247401	1
Anzag	Macrogolglycerol hydroxystea...	18204507	1
Anzag	Lauromacrogol 400	19054203	1
Anzag	Lauromacrogol 400	19064501	3
Anzag	Lauromacrogol 400	19064501A	1
Anzag	Lauromacrogol 400	21000678010	1
Anzag	Macrogol 4 lauryl ether	818400032	1
Apinnrad/Gehe	Macrogol 4 lauryl ether	417400031	1
apo/Noweda	Lauromacrogol 400	180802501	1
Apo-Ident/ Sanacorp	Lauromacrogol 400	1703678	1
apo-ident	Lauromacrogol 400	1589415	1
apomix	Lauromacrogol 400	140911	11
apomix	Lauromacrogol 400	15A26B02-30362	1
apomix	Lauromacrogol 400	3B280217	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Audor Pharma	Lauromacrogol 400	140911	2
Audor Pharma	Lauromacrogol 400	19054203	3
Audor Pharma	Macrogolglycerol hydroxystea…	20002214004	1
Audor Pharma	Lauromacrogol 400	2003031-01	1
BASF SE/ Phönix	Macrogolglycerol hydroxystea…	39658724U0	1
BASF SE/Phö.	Macrogolglycerol hydroxystea…	17546624U0	1
BASF SE	Macrogolglycerol hydroxystea…	14B14B06292160	1
Bombastus	Macrogolglycerol hydroxystea…	14196805	1
Bombastus	Macrogolglycerol hydroxystea…	14B14-B06	1
Bombastus	Macrogolglycerol hydroxystea…	14K28-B01-309197	1
Bombastus	Macrogolglycerol hydroxystea…	15378304	1
Bombastus	Lauromacrogol 400	15G10-B05-318670	1
Bombastus	Lauromacrogol 400	160312	1
Bombastus	Lauromacrogol 400	160312A	1
Bombastus	Lauromacrogol 400	16102912	1
Bombastus	Lauromacrogol 400	16E18-B04-328582	1
Bombastus	Lauromacrogol 400	17250913	2
Bombastus	Macrogolglycerol hydroxystea…	17257003	1
Bombastus	Macrogol 4 lauryl ether	18040101	1
Bombastus	Macrogol 4 lauryl ether	18040103	1
Bombastus	Macrogolglycerol hydroxystea…	18278406	1
BTC	Macrogolglycerol hydroxystea…	22006	6
Caeleo/ Krieger	Macrogol 4 lauryl ether	18215508	1
Caelo	Macrogol 4 lauryl ether		6
Caelo	Macrogol 4 lauryl ether	1013400032	1
Caelo	Macrogol 4 lauryl ether	1014400032	4
Caelo	Macrogolglycerol hydroxystea…	10236606	1
Caelo	Lauromacrogol 400	110408	19
Caelo	Lauromacrogol 400	11107804	1
Caelo	Lauromacrogol 400	11107901	1
Caelo	Lauromacrogol 400	11107905	1
Caelo	Macrogolglycerol hydroxystea…	11161504	5
Caelo	Macrogol 4 lauryl ether	11220306	1
Caelo	Lauromacrogol 400	1142238	1
Caelo	Lauromacrogol 400	1184359	1
Caelo	Macrogol 4 lauryl ether	12057804	4
Caelo	Macrogol 4 lauryl ether	12057806	3
Caelo	Macrogolglycerol hydroxystea…	12071402	1
Caelo	Lauromacrogol 400	12092501	1
Caelo	Lauromacrogol 400	12092512	3
Caelo	Lauromacrogol 400	12092516	2
Caelo	Lauromacrogol 400	12092525	3
Caelo	Lauromacrogol 400	12092530	2
Caelo	Macrogolglycerol hydroxystea…	12103803	4
Caelo	Macrogolglycerol hydroxystea…	12103807	5
Caelo	Macrogolglycerol hydroxystea…	1215614	1
Caelo	Macrogolglycerol hydroxystea…	12158602	2
Caelo	Macrogolglycerol hydroxystea…	12158606	9
Caelo	Macrogolglycerol hydroxystea…	12158610	2
Caelo	Macrogolglycerol hydroxystea…	12158611	4
Caelo	Macrogolglycerol hydroxystea…	12158614	4
Caelo	Macrogol 4 lauryl ether	12180202	3
Caelo	Macrogol 4 lauryl ether	12180204	2
Caelo	Macrogol 4 lauryl ether	123400033	1
Caelo	Lauromacrogol 400	12345	1
Caelo	Lauromacrogol 400	1298974	2
Caelo	Lauromacrogol 400	12A26-N08	1
Caelo	Lauromacrogol 400	12E03-N04	2
Caelo	Lauromacrogol 400	13-0108	1
Caelo	Lauromacrogol 400	130109	23

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lauromacrogol 400	1302014-01	1
Caelo	Macrogol 4 lauryl ether	13041702	4
Caelo	Macrogol 4 lauryl ether	13041706	3
Caelo	Lauromacrogol 400	13-0599	1
Caelo	Lauromacrogol 400	130600401	1
Caelo	Lauromacrogol 400	1306004-01	1
Caelo	Macrogolglycerol hydroxystea…	13072004	12
Caelo	Macrogolglycerol hydroxystea…	13072005	1
Caelo	Macrogolglycerol hydroxystea…	13072008	5
Caelo	Lauromacrogol 400	13095801	4
Caelo	Lauromacrogol 400	13095802	9
Caelo	Lauromacrogol 400	13095809	3
Caelo	Lauromacrogol 400	13095811	5
Caelo	Lauromacrogol 400	13095817	4
Caelo	Macrogol 4 lauryl ether	13136202	2
Caelo	Macrogol 4 lauryl ether	13136206	1
Caelo	Lauromacrogol 400	13175513	1
Caelo	Macrogol 4 lauryl ether	13229801	1
Caelo	Macrogol 4 lauryl ether	13229805	6
Caelo	Macrogol 4 lauryl ether	13229808	2
Caelo	Lauromacrogol 400	13340701	6
Caelo	Lauromacrogol 400	13340703	4
Caelo	Lauromacrogol 400	13340706	1
Caelo	Lauromacrogol 400	13340710	3
Caelo	Lauromacrogol 400	13340712	2
Caelo	Lauromacrogol 400	13340715	2
Caelo	Lauromacrogol 400	1359415	2
Caelo	Lauromacrogol 400	13B13-N01	1
Caelo	Macrogolglycerol hydroxystea…	13K07-N02	1
Caelo	Lauromacrogol 400	13K18-B30	1
Caelo	Lauromacrogol 400	13K18-B30-288163	1
Caelo	Macrogolglycerol hydroxystea…	140415C	1
Caelo	Macrogol 4 lauryl ether	14054401	8
Caelo	Macrogol 4 lauryl ether	14054405	7
Caelo	Lauromacrogol 400	140911	11
Caelo	Lauromacrogol 400	1410010-10	1
Caelo	Lauromacrogol 400	1412296	1
Caelo	Lauromacrogol 400	14-1414	2
Caelo	Macrogolglycerol hydroxystea…	14196805	14
Caelo	Lauromacrogol 400	14220805	3
Caelo	Lauromacrogol 400	14220807	2
Caelo	Lauromacrogol 400	14220808	3
Caelo	Lauromacrogol 400	14220813	3
Caelo	Lauromacrogol 400	14220815	1
Caelo	Lauromacrogol 400	14220816	11
Caelo	Lauromacrogol 400	14220818	2
Caelo	Lauromacrogol 400	14220820	4
Caelo	Macrogol 4 lauryl ether	14225301	7
Caelo	Macrogol 4 lauryl ether	14225303	5
Caelo	Macrogol 4 lauryl ether	14225306	3
Caelo	Macrogol 4 lauryl ether	14225308	4
Caelo	Macrogolglycerol hydroxystea…	14283805	7
Caelo	Macrogolglycerol hydroxystea…	14283808	8
Caelo	Macrogolglycerol hydroxystea…	14283810	1
Caelo	Macrogolglycerol hydroxystea…	14283813	13
Caelo	Macrogolglycerol hydroxystea…	14B14-B06-292160	1
Caelo	Macrogolglycerol hydroxystea…	14b14-b06-2921600855	1
Caelo	Macrogolglycerol hydroxystea…	14C28-b01	1
Caelo	Lauromacrogol 400	14H04-B03-297071	2
Caelo	Lauromacrogol 400	14H04-B03-301517	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogolglycerol hydroxystea…	14K28-B01	1
Caelo	Macrogolglycerol hydroxystea…	14k28-b01-301467	1
Caelo	Macrogolglycerol hydroxystea…	14K28-B01-301467	3
Caelo	Macrogolglycerol hydroxystea…	14K28-B01-301468	2
Caelo	Macrogolglycerol hydroxystea…	14K28-B01-309197	1
Caelo	Lauromacrogol 400	15032018	1
Caelo	Macrogol 4 lauryl ether	15041704	12
Caelo	Macrogol 4 lauryl ether	15041801	8
Caelo	Macrogol 4 lauryl ether	15041802	1
Caelo	Macrogol 4 lauryl ether	15051801	1
Caelo	Lauromacrogol 400	15-0596	1
Caelo	Lauromacrogol 400	151002402	1
Caelo	Macrogol 4 lauryl ether	1510024-02	2
Caelo	Macrogolglycerol hydroxystea…	15102001	1
Caelo	Macrogolglycerol hydroxystea…	15169403	1
Caelo	Macrogolglycerol hydroxystea…	15169404	17
Caelo	Macrogolglycerol hydroxystea…	15169405	12
Caelo	Macrogolglycerol hydroxystea…	15169410	1
Caelo	Macrogolglycerol hydroxystea…	15169805	1
Caelo	Lauromacrogol 400	15192202	3
Caelo	Lauromacrogol 400	15192203	4
Caelo	Lauromacrogol 400	15192205	14
Caelo	Lauromacrogol 400	15192206	1
Caelo	Lauromacrogol 400	15192208	8
Caelo	Lauromacrogol 400	15192209	4
Caelo	Macrogol 4 lauryl ether	15323701	19
Caelo	Macrogol 4 lauryl ether	15323704	10
Caelo	Lauromacrogol 400	15363701	1
Caelo	Lauromacrogol 400	15363702	9
Caelo	Lauromacrogol 400	15363703	5
Caelo	Lauromacrogol 400	15363705	2
Caelo	Lauromacrogol 400	15363706	1
Caelo	Lauromacrogol 400	15363707	3
Caelo	Lauromacrogol 400	15363710	7
Caelo	Lauromacrogol 400	15363712	9
Caelo	Macrogolglycerol hydroxystea…	15378302	28
Caelo	Macrogolglycerol hydroxystea…	15378304	10
Caelo	Macrogolglycerol hydroxystea…	15378309	4
Caelo	Lauromacrogol 400	15A26-802	1
Caelo	Lauromacrogol 400	15A26-B02	2
Caelo	Lauromacrogol 400	15A26-B02-303627	1
Caelo	Lauromacrogol 400	15a26-b02-303628	1
Caelo	Lauromacrogol 400	15G10-B05	1
Caelo	Lauromacrogol 400	15G10-B05-313605	1
Caelo	Lauromacrogol 400	15G10-B05-315343	1
Caelo	Lauromacrogol 400	16/077/M	1
Caelo	Lauromacrogol 400	16-0290	1
Caelo	Lauromacrogol 400	160312	35
Caelo	Lauromacrogol 400	160312A	50
Caelo	Macrogolglycerol hydroxystea…	16045403	21
Caelo	Macrogolglycerol hydroxystea…	16045406	2
Caelo	Lauromacrogol 400	160500602	1
Caelo	Macrogol 4 lauryl ether	16100201	21
Caelo	Macrogol 4 lauryl ether	16100205	14
Caelo	Macrogol 4 lauryl ether	16100207	22
Caelo	Lauromacrogol 400	1610034-01	1
Caelo	Lauromacrogol 400	16102901	1
Caelo	Lauromacrogol 400	16102902	11
Caelo	Lauromacrogol 400	16102903	1
Caelo	Lauromacrogol 400	16102904	9

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lauromacrogol 400	16102908	5
Caelo	Lauromacrogol 400	16102909	4
Caelo	Macrogol 4 lauryl ether	16102911	8
Caelo	Lauromacrogol 400	16102912	2
Caelo	Lauromacrogol 400	16102914	6
Caelo	Lauromacrogol 400	16102916	22
Caelo	Lauromacrogol 400	16102919	1
Caelo	Lauromacrogol 400	16102920	8
Caelo	Lauromacrogol 400	16-1155	1
Caelo	Macrogol 4 lauryl ether	16215504	1
Caelo	Macrogolglycerol hydroxystea…	1624401	1
Caelo	Macrogolglycerol hydroxystea…	16247401	29
Caelo	Macrogolglycerol hydroxystea…	16247405	25
Caelo	Macrogolglycerol hydroxystea…	16247405/1060217	1
Caelo	Macrogolglycerol hydroxystea…	16247410	9
Caelo	Lauromacrogol 400	163012	1
Caelo	Macrogolglycerol hydroxystea…	16349303	28
Caelo	Macrogolglycerol hydroxystea…	16349304	20
Caelo	Macrogolglycerol hydroxystea…	16349305	18
Caelo	Macrogolglycerol hydroxystea…	16349310	1
Caelo	Macrogolglycerol hydroxystea…	163493105682	1
Caelo	Macrogolglycerol hydroxystea…	1647401	1
Caelo	Macrogolglycerol hydroxystea…	169040306	1
Caelo	Lauromacrogol 400	16D18-B04	1
Caelo	Lauromacrogol 400	16E18-B04	2
Caelo	Lauromacrogol 400	16E-18B04	1
Caelo	Lauromacrogol 400	16E18B04321109	1
Caelo	Lauromacrogol 400	16E18B04-321110	1
Caelo	Lauromacrogol 400	16E18-B04-321377	1
Caelo	Lauromacrogol 400	16E18-B04-322723	2
Caelo	Lauromacrogol 400	16E18B04324095	2
Caelo	Lauromacrogol 400	16E18-B04-324095	2
Caelo	Lauromacrogol 400	16E18B04326089	1
Caelo	Lauromacrogol 400	16E18-B04-326089	1
Caelo	Lauromacrogol 400	16E-18-B04-326089	1
Caelo	Lauromacrogol 400	16E18-B04-327811	1
Caelo	Lauromacrogol 400	16E18-B04-328699	1
Caelo	Lauromacrogol 400	16E18-B04-328737	1
Caelo	Lauromacrogol 400	16E18-Bo4-326090	1
Caelo	Macrogol 4 lauryl ether	17028301	41
Caelo	Macrogol 4 lauryl ether	17028303	18
Caelo	Lauromacrogol 400	1703033-01	5
Caelo	Lauromacrogol 400	1704606	1
Caelo	Lauromacrogol 400	17046401	23
Caelo	Lauromacrogol 400	17046404	1
Caelo	Lauromacrogol 400	17046406	7
Caelo	Lauromacrogol 400	17046408	11
Caelo	Lauromacrogol 400	17046409	2
Caelo	Lauromacrogol 400	17046411	22
Caelo	Lauromacrogol 400	17046412	10
Caelo	Lauromacrogol 400	17046461	1
Caelo	Lauromacrogol 400	17046502	9
Caelo	Lauromacrogol 400	17046552	1
Caelo	Macrogol 4 lauryl ether	170828301	1
Caelo	Lauromacrogol 400	170845	1
Caelo	Macrogol 4 lauryl ether	1710026	1
Caelo	Macrogol 4 lauryl ether	1710026-01	4
Caelo	Macrogolglycerol hydroxystea…	17111202	1
Caelo	Lauromacrogol 400	17175502	1
Caelo	Lauromacrogol 400	17250901	9

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lauromacrogol 400	17250902	26
Caelo	Lauromacrogol 400	1725090217250902	1
Caelo	Lauromacrogol 400	17250904	23
Caelo	Lauromacrogol 400	17250908	27
Caelo	Lauromacrogol 400	17250909	25
Caelo	Lauromacrogol 400	17250913	20
Caelo	Lauromacrogol 400	17250914	1
Caelo	Macrogolglycerol hydroxystea...	17257003	42
Caelo	Macrogolglycerol hydroxystea...	17257004	1
Caelo	Macrogolglycerol hydroxystea...	17257007	2
Caelo	Lauromacrogol 400	1725902	1
Caelo	Macrogol 4 lauryl ether	17325413	1
Caelo	Lauromacrogol 400	17A23B01330983	1
Caelo	Lauromacrogol 400	17A23-B01-330983	5
Caelo	Lauromacrogol 400	17A23-B01-332867	1
Caelo	Lauromacrogol 400	17A23-B01-332868	1
Caelo	Lauromacrogol 400	17A23-B01-33287	1
Caelo	Lauromacrogol 400	17A23-B01-333329	1
Caelo	Lauromacrogol 400	17A23-BO1-332868	1
Caelo	Lauromacrogol 400	17H21-B07	2
Caelo	Lauromacrogol 400	17H21-B07-339504	1
Caelo	Lauromacrogol 400	17h21b07341796	1
Caelo	Lauromacrogol 400	17H21B07341796	2
Caelo	Lauromacrogol 400	17H21-B07-341796	1
Caelo	Macrogol 4 lauryl ether	18(17028301)	1
Caelo	Lauromacrogol 400	18-0103	4
Caelo	Lauromacrogol 400	1801043-01	5
Caelo	Macrogol 4 lauryl ether	18040101	30
Caelo	Macrogol 4 lauryl ether	18040103	14
Caelo	Macrogol 4 lauryl ether	18040106	5
Caelo	Lauromacrogol 400	180802501	1
Caelo	Lauromacrogol 400	1808025-01	2
Caelo	Lauromacrogol 400	18111708	1
Caelo	Lauromacrogol 400	1815502	1
Caelo	Lauromacrogol 400	1815508	1
Caelo	Lauromacrogol 400	18175501	16
Caelo	Lauromacrogol 400	18175502	20
Caelo	Lauromacrogol 400	18175503	14
Caelo	Lauromacrogol 400	18175504	22
Caelo	Lauromacrogol 400	181755040120	1
Caelo	Lauromacrogol 400	18175508	21
Caelo	Lauromacrogol 400	18175509	19
Caelo	Lauromacrogol 400	18175509P-190225-1	1
Caelo	Lauromacrogol 400	18175512	1
Caelo	Lauromacrogol 400	18175513	15
Caelo	Lauromacrogol 400	18175515	7
Caelo	Lauromacrogol 400	18175516	1
Caelo	Lauromacrogol 400	18175517	15
Caelo	Lauromacrogol 400	18175520	4
Caelo	Lauromacrogol 400	18175521	5
Caelo	Lauromacrogol 400	18175608	1
Caelo	Macrogolglycerol hydroxystea...	182004507	1
Caelo	Macrogolglycerol hydroxystea...	18204501	5
Caelo	Macrogolglycerol hydroxystea...	18204504	1
Caelo	Macrogolglycerol hydroxystea...	18204506	9
Caelo	Macrogolglycerol hydroxystea...	18204507	36
Caelo	Macrogolglycerol hydroxystea...	18204507P-190325-7	1
Caelo	Macrogolglycerol hydroxystea...	18204509	29
Caelo	Macrogol 4 lauryl ether	18215501	41
Caelo	Macrogol 4 lauryl ether	18215504	15

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogol 4 lauryl ether	18215506	21
Caelo	Macrogol 4 lauryl ether	18215508	16
Caelo	Macrogol 4 lauryl ether	1825504	1
Caelo	Macrogolglycerol hydroxystea…	182784	1
Caelo	Macrogolglycerol hydroxystea…	18278403	39
Caelo	Macrogolglycerol hydroxystea…	18278404	2
Caelo	Macrogolglycerol hydroxystea…	18278406	24
Caelo	Macrogolglycerol hydroxystea…	18278407	3
Caelo	Macrogolglycerol hydroxystea…	18278410	34
Caelo	Macrogolglycerol hydroxystea…	18278411	1
Caelo	Macrogolglycerol hydroxystea…	18278412	1
Caelo	Lauromacrogol 400	188175504	1
Caelo	Lauromacrogol 400	18826806347342	1
Caelo	Lauromacrogol 400	18826-B06-346397	1
Caelo	Macrogol 4 lauryl ether	188B26-B06	1
Caelo	Lauromacrogol 400	18912184	1
Caelo	Lauromacrogol 400	18B26-B06_346397	1
Caelo	Lauromacrogol 400	18B26-B06-346397	3
Caelo	Lauromacrogol 400	18b26-b06-346398	1
Caelo	Lauromacrogol 400	18B26-B06-346398	1
Caelo	Lauromacrogol 400	18B26-B06-347341	1
Caelo	Lauromacrogol 400	18B26-B06-347342	3
Caelo	Lauromacrogol 400	18D30-350642	1
Caelo	Lauromacrogol 400	18D30-B09	1
Caelo	Lauromacrogol 400	18D30B09-350640	1
Caelo	Lauromacrogol 400	18D30-B09-350640	3
Caelo	Lauromacrogol 400	18D30-B09-350641	3
Caelo	Lauromacrogol 400	18D30-B09-350642	2
Caelo	Macrogol 4 lauryl ether	18D30-B09-352738	4
Caelo	Lauromacrogol 400	18D30-B09-352739	2
Caelo	Macrogolglycerol hydroxystea…	18G13-B05	1
Caelo	Macrogolglycerol hydroxystea…	18G13-B05-355855	1
Caelo	Lauromacrogol 400	18J08-B03-355982	1
Caelo	Macrogol 4 lauryl ether	19(18215504)	1
Caelo	Macrogol 4 lauryl ether	190000420003	2
Caelo	Macrogol 4 lauryl ether	19000420003	25
Caelo	Macrogol 4 lauryl ether	19000420004	11
Caelo	Macrogol 4 lauryl ether	1900042003	1
Caelo	Lauromacrogol 400	1901029-01	1
Caelo	Macrogol 4 lauryl ether	19013603	1
Caelo	Macrogolglycerol hydroxystea…	19021802	1
Caelo	Macrogolglycerol hydroxystea…	19040302	2
Caelo	Macrogolglycerol hydroxystea…	19040303	2
Caelo	Macrogolglycerol hydroxystea…	19040305	26
Caelo	Macrogolglycerol hydroxystea…	19040306	10
Caelo	Macrogolglycerol hydroxystea…	1904305	1
Caelo	Lauromacrogol 400	19054203	16
Caelo	Lauromacrogol 400	19064501	1
Caelo	Macrogol 4 lauryl ether	19067001	1
Caelo	Macrogol 4 lauryl ether	1906701	1
Caelo	Macrogol 4 lauryl ether	190967001	16
Caelo	Macrogol 4 lauryl ether	19096701	22
Caelo	Lauromacrogol 400	191111510	1
Caelo	Macrogolglycerol hydroxystea…	19111202	1
Caelo	Lauromacrogol 400	19130004	1
Caelo	Lauromacrogol 400	1913003	2
Caelo	Lauromacrogol 400	1913100004	1
Caelo	Lauromacrogol 400	191310003	41
Caelo	Lauromacrogol 400	191310004	15
Caelo	Lauromacrogol 400	19131002	16

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Lauromacrogol 400	19131003	34
Caelo	Lauromacrogol 400	1913100309	1
Caelo	Lauromacrogol 400	19131004	5
Caelo	Lauromacrogol 400	19131005	8
Caelo	Lauromacrogol 400	19131006	31
Caelo	Lauromacrogol 400	19131008	46
Caelo	Lauromacrogol 400	19131009	1
Caelo	Lauromacrogol 400	19131010	7
Caelo	Macrogolglycerol hydroxystea…	191835003	1
Caelo	Lauromacrogol 400	1919A-02384	1
Caelo	Lauromacrogol 400	1919B-02384	1
Caelo	Lauromacrogol 400	1919E-02384	1
Caelo	Lauromacrogol 400	1925957002	1
Caelo	Lauromacrogol 400	19291570	1
Caelo	Lauromacrogol 400	192957001	23
Caelo	Lauromacrogol 400	192957002	33
Caelo	Lauromacrogol 400	192957003	1
Caelo	Lauromacrogol 400	192957005	20
Caelo	Lauromacrogol 400	1929570058	1
Caelo	Lauromacrogol 400	19297001	1
Caelo	Lauromacrogol 400	192975005	1
Caelo	Macrogol 4 lauryl ether	19G09-B02	1
Caelo	Lauromacrogol 400	19G09-B02-072831	1
Caelo	Lauromacrogol 400	200000841002	1
Caelo	Macrogolglycerol hydroxystea…	200002214004	5
Caelo	Lauromacrogol 400	20000841001	2
Caelo	Lauromacrogol 400	20000841002	13
Caelo	Lauromacrogol 400	20001966001	2
Caelo	Macrogolglycerol hydroxystea…	2000214004	1
Caelo	Macrogolglycerol hydroxystea…	200022114004	2
Caelo	Macrogolglycerol hydroxystea…	20002214003	3
Caelo	Macrogolglycerol hydroxystea…	20002214004	46
Caelo	Lauromacrogol 400	2000269	1
Caelo	Lauromacrogol 400	20002697001	19
Caelo	Lauromacrogol 400	20002697002	45
Caelo	Lauromacrogol 400	20002697004	1
Caelo	Lauromacrogol 400	20002697005	6
Caelo	Macrogol 4 lauryl ether	20003967001	2
Caelo	Lauromacrogol 400	2000448003	1
Caelo	Lauromacrogol 400	20004481003	1
Caelo	Lauromacrogol 400	20004484003	28
Caelo	Lauromacrogol 400	20004484004	15
Caelo	Lauromacrogol 400	2002697002	2
Caelo	Macrogol 4 lauryl ether	20121112-1	1
Caelo	Macrogolglycerol hydroxystea…	20130912-1	1
Caelo	Macrogolglycerol hydroxystea…	2019Q-01308	1
Caelo	Lauromacrogol 400	20D20-T12-076662	1
Caelo	Macrogolglycerol hydroxystea…	20G09-F02-372328	3
Caelo	Macrogolglycerol hydroxystea…	21000060003	12
Caelo	Macrogol 4 lauryl ether	21000436001	3
Caelo	Macrogol 4 lauryl ether	21000436002	1
Caelo	Macrogol 4 lauryl ether	21000436003	10
Caelo	Macrogol 4 lauryl ether	21000436006	5
Caelo	Macrogol 4 lauryl ether	21000436008	3
Caelo	Lauromacrogol 400	21000678003	1
Caelo	Lauromacrogol 400	21000678004	6
Caelo	Lauromacrogol 400	21000678005	18
Caelo	Lauromacrogol 400	21000678009	4
Caelo	Lauromacrogol 400	21000678010	5
Caelo	Lauromacrogol 400	21000678011	7

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogolglycerol hydroxystea…	21001311002	1
Caelo	Macrogolglycerol hydroxystea…	21001311005	17
Caelo	Macrogolglycerol hydroxystea…	21002749002	6
Caelo	Macrogolglycerol hydroxystea…	21002749003	13
Caelo	Macrogolglycerol hydroxystea…	21002749006	1
Caelo	Macrogolglycerol hydroxystea…	21002749009	2
Caelo	Macrogolglycerol hydroxystea…	2100311005	1
Caelo	Lauromacrogol 400	21011501	1
Caelo	Macrogolglycerol hydroxystea…	2101415	1
Caelo	Macrogolglycerol hydroxystea…	21071201	1
Caelo	Macrogol 4 lauryl ether	210826	1
Caelo	Macrogolglycerol hydroxystea…	21111816	1
Caelo	Macrogolglycerol hydroxystea…	21121203	1
Caelo	Macrogolglycerol hydroxystea…	2115E-01308	1
Caelo	Macrogol 4 lauryl ether	2184	1
Caelo	Macrogol 4 lauryl ether	218400031	4
Caelo	Macrogol 4 lauryl ether	2184001	1
Caelo	Macrogolglycerol hydroxystea…	22000397002	1
Caelo	Lauromacrogol 400	22000433003	2
Caelo	Macrogol 4 lauryl ether	22000511002	1
Caelo	Macrogol 4 lauryl ether	221542	1
Caelo	Lauromacrogol 400	2319E-02384(1)	1
Caelo	Lauromacrogol 400	2319F-02384(2)	1
Caelo	Lauromacrogol 400	2319G-02384(3)	1
Caelo	Macrogolglycerol hydroxystea…	26061303	1
Caelo	Macrogolglycerol hydroxystea…	29091402	1
Caelo	Macrogolglycerol hydroxystea…	2917E-01308	1
Caelo	Macrogolglycerol hydroxystea…	2918E-01308	1
Caelo	Macrogolglycerol hydroxystea…	3005682	1
Caelo	Macrogolglycerol hydroxystea…	30091404	1
Caelo	Macrogolglycerol hydroxystea…	30378697V0	1
Caelo	Lauromacrogol 400	3121505	1
Caelo	Macrogol 4 lauryl ether	3272779	1
Caelo	Lauromacrogol 400	3298	1
Caelo	Macrogolglycerol hydroxystea…	332418278406	1
Caelo	Macrogol 4 lauryl ether	3447210004363	1
Caelo	Macrogolglycerol hydroxystea…	3452	1
Caelo	Macrogol 4 lauryl ether	417400031	2
Caelo	Macrogol 4 lauryl ether	417400313	1
Caelo	Lauromacrogol 400	41796	1
Caelo	Macrogol 4 lauryl ether	4214A-02868	1
Caelo	Macrogolglycerol hydroxystea…	4613M-01308	1
Caelo	Lauromacrogol 400	4617M02384	1
Caelo	Macrogol 4 lauryl ether	5041801	1
Caelo	Macrogolglycerol hydroxystea…	54764324U0	1
Caelo	Macrogolglycerol hydroxystea…	6021304	1
Caelo	Macrogol 4 lauryl ether	616A-02868	1
Caelo	Macrogolglycerol hydroxystea…	70201688Q0	1
Caelo	Macrogol 4 lauryl ether	7028303	1
Caelo	Macrogol 4 lauryl ether	7121201	1
Caelo	Macrogol 4 lauryl ether	715400031	1
Caelo	Lauromacrogol 400	7250901	1
Caelo	Lauromacrogol 400	8727	1
Caelo	Lauromacrogol 400	90807	1
Caelo	Lauromacrogol 400	B14-1414	1
Caelo	Lauromacrogol 400	CHB17250902	1
Caelo	Macrogolglycerol hydroxystea…	F13-3685101	1
Caelo	Lauromacrogol 400	gepepharm	1
Caelo	Macrogolglycerol hydroxystea…	P-05021920/18204501	1
Caelo	Macrogolglycerol hydroxystea…	P146/14	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caeol/Phönix	Macrogolglycerol hydroxystea…	19040305	1
Caesa / Alliance Health…	Lauromacrogol 400	18175504	1
Caesar & Lorenz GmbH	Macrogol 4 lauryl ether	19096701	1
Caesar & Lorenz	Lauromacrogol 400	13095802	1
Caesar & Loretz /Phönix	Lauromacrogol 400	21000678009	1
Caesar & Loretz GmbH / …	Lauromacrogol 400	18175509	3
Caesar & Loretz GmbH / …	Lauromacrogol 400	19131003	1
Caesar & Loretz GmbH / …	Macrogol 4 lauryl ether	18215504	1
Caesar & Loretz GmbH / …	Macrogolglycerol hydroxystea…	18278410	1
Caesar & Loretz GmbH / …	Lauromacrogol 400	192957001	1
Caesar & Loretz GmbH / …	Macrogol 4 lauryl ether	18040101	1
Caesar & Loretz GmbH / …	Macrogol 4 lauryl ether	417400031	2
Caesar & Loretz GmbH / …	Lauromacrogol 400	18175517	1
Caesar & Loretz GmbH / …	Lauromacrogol 400	19131008	2
Caesar & Loretz GmbH /G…	Lauromacrogol 400	192957001	1
Caesar & Loretz GmbH Hi…	Macrogol 4 lauryl ether	14283001	1
Caesar & Loretz GmbH Hi…	Macrogolglycerol hydroxystea…	16247401	1
Caesar & Loretz GmbH, 4…	Macrogol 4 lauryl ether	11220306	1
Caesar & Loretz GmbH/ G…	Lauromacrogol 400	191310003	3
Caesar & Loretz GmbH/ G…	Lauromacrogol 400	19131003	2
Caesar & Loretz GmbH/ G…	Lauromacrogol 400	19131008	1
Caesar & Loretz GmbH/ G…	Lauromacrogol 400	19131008	1
Caesar & Loretz GmbH/ G…	Macrogolglycerol hydroxystea…	20002214004	1
Caesar & Loretz GmbH/ P…	Macrogolglycerol hydroxystea…	21000678003	1
Caesar & Loretz GmbH/AHD	Macrogolglycerol hydroxystea…	19040305	1
Caesar & Loretz GmbH/AHD	Lauromacrogol 400	19131002	1
Caesar & Loretz GmbH/AHD	Lauromacrogol 400	19131010	1
Caesar & Loretz GmbH/AHD	Lauromacrogol 400	192957002	1
Caesar & Loretz GmbH/AHD	Lauromacrogol 400	20004484004	1
Caesar & Loretz GmbH/Fi…	Macrogol 4 lauryl ether	19096701	1
Caesar & Loretz GmbH/Fi…	Lauromacrogol 400	192957005	1
Caesar & Loretz GmbH/Fi…	Lauromacrogol 400	20002697005	1
Caesar & Loretz GmbH/Fi…	Macrogolglycerol hydroxystea…	2100006001	1
Caesar & Loretz GmbH/Gehe	Macrogolglycerol hydroxystea…	182784	1
Caesar & Loretz GmbH/Gehe	Macrogolglycerol hydroxystea…	18278403	1
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	191310003	1
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	19131005	1
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	192957002	1
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	192957005	1
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	20000841002	1
Caesar & Loretz GmbH/Gehe	Macrogolglycerol hydroxystea…	20002214004	1
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	20002697001	2
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	20004484004	1
Caesar & Loretz GmbH/GEHE	Macrogolglycerol hydroxystea…	21001311005	1
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	AP200918-02	1
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	AP200918-03	1
Caesar & Loretz GmbH/Gehe	Lauromacrogol 400	AP200918-04	1
Caesar & Loretz GmbH/Ge…	Macrogolglycerol hydroxystea…	19040305	1
Caesar & Loretz GmbH/ho…	Macrogolglycerol hydroxystea…	21002749003	1
Caesar & Loretz GmbH/Je…	Macrogolglycerol hydroxystea…	19040306	1
Caesar & Loretz GmbH/Je…	Lauromacrogol 400	19131006	1
Caesar & Loretz GmbH/Je…	Lauromacrogol 400	192957005	1
Caesar & Loretz GmbH/Kehr	Macrogol 4 lauryl ether	18215506	1
Caesar & Loretz GmbH/Kehr	Macrogolglycerol hydroxystea…	18278410	1
Caesar & Loretz GmbH/Kehr	Macrogol 4 lauryl ether	190967001	1
Caesar & Loretz GmbH/Kr…	Macrogol 4 lauryl ether	19000420003	2
Caesar & Loretz GmbH/Kr…	Macrogol 4 lauryl ether	19000420004	2
Caesar & Loretz GmbH/Kr…	Macrogol 4 lauryl ether	190967001	1
Caesar & Loretz GmbH/Kr…	Lauromacrogol 400	20002697002	1
Caesar & Loretz GmbH/No…	Macrogolglycerol hydroxystea…	18204507	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/No…	Macrogol 4 lauryl ether	19096701	1
Caesar & Loretz GmbH/No…	Lauromacrogol 400	192957001	1
Caesar & Loretz GmbH/NO…	Lauromacrogol 400	192957005	1
Caesar & Loretz GmbH/No…	Macrogolglycerol hydroxystea…	20002214003	1
Caesar & Loretz GmbH/No…	Lauromacrogol 400	20002697002	1
Caesar & Loretz GmbH/No…	Lauromacrogol 400	20004484003	2
Caesar & Loretz GmbH/No…	Lauromacrogol 400	21000678005	1
Caesar & Loretz GmbH/Ph…	Lauromacrogol 400	20002697005	1
Caesar & Loretz GmbH/Ph…	Macrogolglycerol hydroxystea…	19040305	1
Caesar & Loretz GmbH/Ph…	Macrogolglycerol hydroxystea…	18278406	1
Caesar & Loretz GmbH/Ph…	Macrogol 4 lauryl ether	19000420003	1
Caesar & Loretz GmbH/Ph…	Macrogolglycerol hydroxystea…	19040306	1
Caesar & Loretz GmbH/Ph…	Lauromacrogol 400	192957001	1
Caesar & Loretz GmbH/Ph…	Lauromacrogol 400	192957002	1
Caesar & Loretz GmbH/Ph…	Macrogolglycerol hydroxystea…	20002214004	1
Caesar & Loretz GmbH/Ph…	Lauromacrogol 400	20002697001	1
Caesar & Loretz GmbH/Sana	Macrogolglycerol hydroxystea…	18278406	1
Caesar & Loretz GmbH/Sana	Macrogolglycerol hydroxystea…	21002749003	2
Caesar & Loretz GmbH/Sa…	Macrogolglycerol hydroxystea…	19040305	1
Caesar & Loretz GmbH/Sa…	Lauromacrogol 400	191310003	2
Caesar & Loretz GmbH/Sa…	Lauromacrogol 400	192957005	2
Caesar & Loretz GmbH/Sa…	Lauromacrogol 400	20001966001	1
Caesar & Loretz GmbH/Sa…	Macrogolglycerol hydroxystea…	20002214004	1
Caesar & Loretz GmbH/Sa…	Lauromacrogol 400	20002697002	1
Caesar & Loretz GmbH/Sa…	Lauromacrogol 400	20002697005	1
Caesar & Loretz GmbH/Sa…	Macrogol 4 lauryl ether	21000436008	1
Caesar & Loretz GmbH/Sa…	Macrogolglycerol hydroxystea…	21001311005	1
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	14054405	1
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	14225308	1
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	16100201	1
Caesar & Loretz GmbH	Lauromacrogol 400	16102911	1
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	17028301	1
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	17028303	1
Caesar & Loretz GmbH	Lauromacrogol 400	17046411	1
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	18040101	2
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	18040103	1
Caesar & Loretz GmbH	Lauromacrogol 400	18175504	2
Caesar & Loretz GmbH	Lauromacrogol 400	18175508	10
Caesar & Loretz GmbH	Lauromacrogol 400	18175509	4
Caesar & Loretz GmbH	Lauromacrogol 400	18175512	3
Caesar & Loretz GmbH	Lauromacrogol 400	18175513	1
Caesar & Loretz GmbH	Lauromacrogol 400	18175515	3
Caesar & Loretz GmbH	Lauromacrogol 400	18175517	4
Caesar & Loretz GmbH	Lauromacrogol 400	18175520	1
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	18204507	1
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	18204509	2
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	18215501	3
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	18215504	2
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	18215506	2
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	18215508	1
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	18278403	6
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	18278404	1
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	18278406	3
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	18278410	11
Caesar & Loretz GmbH	Lauromacrogol 400	18D30-B09	1
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	19000420003	3
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	19000420004	1
Caesar & Loretz GmbH	Lauromacrogol 400	19002901	1
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	19040303	2
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	19040305	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	19040306	4
Caesar & Loretz GmbH	Lauromacrogol 400	19054203	2
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	190967001	3
Caesar & Loretz GmbH	Lauromacrogol 400	191310003	5
Caesar & Loretz GmbH	Lauromacrogol 400	191310004	1
Caesar & Loretz GmbH	Lauromacrogol 400	19131002	10
Caesar & Loretz GmbH	Lauromacrogol 400	19131003	9
Caesar & Loretz GmbH	Lauromacrogol 400	19131004	2
Caesar & Loretz GmbH	Lauromacrogol 400	19131005	3
Caesar & Loretz GmbH	Lauromacrogol 400	19131006	11
Caesar & Loretz GmbH	Lauromacrogol 400	19131008	13
Caesar & Loretz GmbH	Lauromacrogol 400	19131009	2
Caesar & Loretz GmbH	Lauromacrogol 400	19131010	2
Caesar & Loretz GmbH	Lauromacrogol 400	192957001	7
Caesar & Loretz GmbH	Lauromacrogol 400	192957002	6
Caesar & Loretz GmbH	Lauromacrogol 400	192957005	3
Caesar & Loretz GmbH	Lauromacrogol 400	20000841001	2
Caesar & Loretz GmbH	Lauromacrogol 400	20000841002	5
Caesar & Loretz GmbH	Lauromacrogol 400	2000196601	1
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	20002214003	1
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	20002214004	7
Caesar & Loretz GmbH	Lauromacrogol 400	20002697001	10
Caesar & Loretz GmbH	Lauromacrogol 400	20002697002	12
Caesar & Loretz GmbH	Lauromacrogol 400	20002697005	4
Caesar & Loretz GmbH	Lauromacrogol 400	20004484003	1
Caesar & Loretz GmbH	Lauromacrogol 400	20004484004	5
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	21000060001	1
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	21000060003	3
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	21000436003	3
Caesar & Loretz GmbH	Macrogol 4 lauryl ether	21000436008	1
Caesar & Loretz GmbH	Lauromacrogol 400	21000678004	3
Caesar & Loretz GmbH	Lauromacrogol 400	21000678005	6
Caesar & Loretz GmbH	Lauromacrogol 400	21000678010	1
Caesar & Loretz GmbH	Lauromacrogol 400	21000678011	4
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	21001311005	6
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	21002749002	3
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	21002749003	3
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	21002749009	3
Caesar & Loretz GmbH	Lauromacrogol 400	22001666001	1
Caesar & Loretz GmbH	Macrogolglycerol hydroxystea…	24244888Q0	1
Caesar & Loretz GmbH	Lauromacrogol 400	B02-0728302	1
Caesar & Loretz GmbH7Sa…	Macrogolglycerol hydroxystea…	20002214004	1
Caesar & Loretz Hilden/…	Lauromacrogol 400	20002697005	1
Caesar & Loretz/Geilenk…	Lauromacrogol 400	192957001	1
Caesar & Loretz/Noweda	Lauromacrogol 400	19131003	1
Caesar & Loretz/Noweda	Lauromacrogol 400	20002697002	1
Caesar & Loretz/Noweda	Macrogol 4 lauryl ether	715400031	1
Caesar & Loretz/Sanacorp	Lauromacrogol 400	15363712	1
Caesar & Loretz	Lauromacrogol 400	17250908	1
Caesar & Loretz	Lauromacrogol 400	17250913	2
Caesar & Loretz	Lauromacrogol 400	18175503	1
Caesar & Loretz	Lauromacrogol 400	18175504	4
Caesar & Loretz	Macrogolglycerol hydroxystea…	18204509	1
CAESAR & LORETZ	Lauromacrogol 400	19131003	1
Caesar &Loretz GmbH	Macrogolglycerol hydroxystea…	12158610	1
Caesar &Loretz GmbH	Macrogol 4 lauryl ether	13229802	1
Caesar u. Loretz/Noweda	Macrogolglycerol hydroxystea…	14196805	1
Caesar&Lorenz	Macrogolglycerol hydroxystea…	21001311005	1
Caesar&Loretz GmbH/ All…	Lauromacrogol 400	17250913	1
Caesar&Loretz GmbH	Macrogolglycerol hydroxystea…	21002749003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar&loretz,Anzag	Macrogol 4 lauryl ether	13041702	1
Caesar&loretz,Phoenix	Macrogol 4 lauryl ether	14225308	1
Caesar/Loretz	Lauromacrogol 400	18175513	1
Caesar/Loretz	Lauromacrogol 400	18175515	5
Caesar/Noweda	Lauromacrogol 400	13B13-N01	1
Caleo/Phönix	Macrogol 4 lauryl ether	14225308	1
Caleo	Lauromacrogol 400	192957005	1
Calo/AHD	Lauromacrogol 400	14-0731	1
Calo/AHD	Macrogolglycerol hydroxystea...	16247401	1
Cealo/Jenne	Macrogol 4 lauryl ether	18215506	1
Cealo/Sanacorp	Lauromacrogol 400	20004484003	1
Cealo	Macrogol 4 lauryl ether	19000420003	3
cealo	Macrogol 4 lauryl ether	19000420004	1
Cepepharm / Gehe	Lauromacrogol 400	140911	3
Cesar&Loretz GmbH Noweda	Lauromacrogol 400	20002697002	1
Cheimische Fabrik/Noweda	Lauromacrogol 400	19054203	3
Chem. Fab. Schärer und ...	Lauromacrogol 400	19054203	1
Chem. Fabrik Schärer & ...	Lauromacrogol 400	19131002	1
Chem. Fabrik Schärer&Sc...	Lauromacrogol 400	20001966001	1
Chem.Fabr.Schärer/Sana	Lauromacrogol 400	20001966001	1
Chemische Fabrik / Phönix	Lauromacrogol 400	19054203	1
Chemische Fabrik / Phönix	Lauromacrogol 400	19054203A	4
Chemische Fabrik / Phönix	Lauromacrogol 400	19064501	4
Chemische Fabrik / Phönix	Lauromacrogol 400	19064501A	2
chemische Fabrik : Schä...	Lauromacrogol 400	19064501	1
Chemische Fabrik Phoenix	Lauromacrogol 400	19064501	1
Chemische Fabrik Schäre...	Lauromacrogol 400	20001966001	1
Chemische Fabrik Schäre...	Lauromacrogol 400	19054203	1
Chemische Fabrik Schäre...	Lauromacrogol 400	19064501	1
Chemische Fabrik Schäre...	Lauromacrogol 400	19064501A	1
Chemische Fabrik Schäre...	Lauromacrogol 400	19064501	1
Chemische Fabrik Schäre...	Lauromacrogol 400	20001966001	1
Chemische Fabrik Schare...	Lauromacrogol 400	20-0212	1
Chemische Fabrik Schäre...	Lauromacrogol 400	19064501A	1
Chemische Fabrik Schärer	Lauromacrogol 400	19064501A	1
Chemische Fabrik, Schär...	Lauromacrogol 400	19054203	1
Chemische Fabrik/ sanac...	Lauromacrogol 400	19064501A	1
Chemische Fabrik/AHD	Lauromacrogol 400	19054203	1
Chemische Fabrik/Phoenix	Lauromacrogol 400	20-0945	1
Chemische Fabrik	Lauromacrogol 400	19064501	1
Corda Iberica,SA.	Lauromacrogol 400	1911015-01	1
Croda Iberica	Lauromacrogol 400	1510024-02	1
croda iberica	Lauromacrogol 400	2007042-01	2
Delta	Lauromacrogol 400	17H21-B07-341795	1
Depepharm/Sanacorp	Lauromacrogol 400	140911	2
Dermapharm	Lauromacrogol 400	110408	1
Devesa/NOW	Lauromacrogol 400	15363712	1
Dr.rer.nat. S. Wissel	Lauromacrogol 400	160312	1
E Plus	Lauromacrogol 400	17046502	1
E Plus	Lauromacrogol 400	17250909	1
E Plus	Macrogolglycerol hydroxystea...	17257003	1
E Plus	Lauromacrogol 400	18175502	2
Ebert & Jacobi 31.05...	Lauromacrogol 400	140911	2
Ebert & Jacobi	Lauromacrogol 400	18D30-B09-352738	1
Ebert+ Jacobi Hdh	Lauromacrogol 400	18175509	1
Ebert+Jacobi	Lauromacrogol 400	12A26-N08	1
EoRho	Lauromacrogol 400	1302014-01	2
EuRho / Sanacorp	Lauromacrogol 400	1901029-01	1
EuRho >Ph	Macrogol 4 lauryl ether	1710026-01	1
EuRHO/Jenne 13.04.22 8,...	Lauromacrogol 400	210611-02	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
EuRho/Noweda	Macrogol 4 lauryl ether	1801043-01	1
EuRho/Sanacorp	Lauromacrogol 400	1703033-01	1
EuRho/VDL	Lauromacrogol 400	1907010-01	1
EuRho	Lauromacrogol 400	130109	2
EuRho	Lauromacrogol 400	1808025-01	3
eurho	Lauromacrogol 400	197010-01	1
Euro OTC	Lauromacrogol 400		1
Euro OTC	Lauromacrogol 400	1009020-02	2
Euro OTC	Lauromacrogol 400	1109011-01	2
Euro OTC	Macrogol 4 lauryl ether	1142238	3
Euro OTC	Lauromacrogol 400	1184359	1
Euro OTC	Lauromacrogol 400	1210035-01	2
Euro OTC	Lauromacrogol 400	1275280	3
Euro OTC	Lauromacrogol 400	127580	1
Euro OTC	Macrogol 4 lauryl ether	1298974	1
Euro OTC	Lauromacrogol 400	130109	1
Euro OTC	Lauromacrogol 400	1302014-01	5
Euro OTC	Lauromacrogol 400	1306004-01	9
Euro OTC	Lauromacrogol 400	1306004-02	3
Euro OTC	Macrogol 4 lauryl ether	1359415	4
Euro OTC	Lauromacrogol 400	13F13-NO7	1
Euro OTC	Macrogol 4 lauryl ether	14054401	1
Euro OTC	Lauromacrogol 400	140700701	1
Euro OTC	Macrogol 4 lauryl ether	1407007-01	7
Euro OTC	Lauromacrogol 400	140911	3
Euro OTC	Lauromacrogol 400	14100100-01	1
Euro OTC	Lauromacrogol 400	1410010-01	2
Euro OTC	Lauromacrogol 400	1410010-02	1
Euro OTC	Lauromacrogol 400	1412296	3
Euro OTC	Macrogolglycerol hydroxystea...	1483808	1
Euro OTC	Lauromacrogol 400	1503032	1
Euro OTC	Lauromacrogol 400	150303201	1
Euro OTC	Lauromacrogol 400	1503032-01	3
Euro OTC	Macrogol 4 lauryl ether	1503032-02	8
Euro OTC	Lauromacrogol 400	151002401	1
Euro OTC	Lauromacrogol 400	1510024-01	8
Euro OTC	Lauromacrogol 400	1510024-02	11
Euro OTC	Lauromacrogol 400	1510025-01	1
Euro OTC	Macrogolglycerol hydroxystea...	15169404	1
Euro OTC	Macrogol 4 lauryl ether	15323704	1
Euro OTC	Lauromacrogol 400	1551417	3
Euro OTC	Lauromacrogol 400	1589415	2
Euro OTC	Lauromacrogol 400	15A26-B02_303628	1
Euro OTC	Lauromacrogol 400	160312	7
Euro OTC	Lauromacrogol 400	160312A	2
Euro OTC	Lauromacrogol 400	160500601	1
Euro OTC	Lauromacrogol 400	1605006-01	12
Euro OTC	Lauromacrogol 400	160500602	3
Euro OTC	Macrogol 4 lauryl ether	1605006-02	12
Euro OTC	Lauromacrogol 400	1610034	1
Euro OTC	Lauromacrogol 400	161003401	1
Euro OTC	Macrogol 4 lauryl ether	1610034-01	17
Euro OTC	Macrogolglycerol hydroxystea...	16247401	1
Euro OTC	Lauromacrogol 400	1656188	2
Euro OTC	Lauromacrogol 400	170303301	4
Euro OTC	Macrogol 4 lauryl ether	1703033-01	32
Euro OTC	Lauromacrogol 400	170333-01	1
Euro OTC	Lauromacrogol 400	171002601	2
Euro OTC	Macrogol 4 lauryl ether	1710026-01	36
Euro OTC	Lauromacrogol 400	1710026-01/180606P	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Lauromacrogol 400	171116PC/1703033-01	1
Euro OTC	Lauromacrogol 400	1781002601	1
Euro OTC	Lauromacrogol 400	17A23-B01-332869	1
Euro OTC	Lauromacrogol 400	17A23-B01-335355	1
Euro OTC	Lauromacrogol 400	17H21-B07-341797	1
Euro OTC	Lauromacrogol 400	180002541	1
Euro OTC	Lauromacrogol 400	18008025-01	1
Euro OTC	Lauromacrogol 400	180101043-01	1
Euro OTC	Macrogol 4 lauryl ether	180104301	5
Euro OTC	Lauromacrogol 400	1801043-01	32
Euro OTC	Lauromacrogol 400	180143-01	1
Euro OTC	Macrogol 4 lauryl ether	18040101	2
Euro OTC	Lauromacrogol 400	180802501	2
Euro OTC	Macrogol 4 lauryl ether	1808025-01	31
Euro OTC	Lauromacrogol 400	181043-01	1
Euro OTC	Macrogolglycerol hydroxystea...	18278403	1
Euro OTC	Lauromacrogol 400	1901029	1
Euro OTC	Macrogol 4 lauryl ether	190102901	3
Euro OTC	Macrogol 4 lauryl ether	1901029-01	34
Euro OTC	Lauromacrogol 400	19054203	1
Euro OTC	Lauromacrogol 400	190701001	1
Euro OTC	Macrogol 4 lauryl ether	1907010-01	40
Euro OTC	Lauromacrogol 400	191029-01	1
Euro OTC	Lauromacrogol 400	191101501	1
Euro OTC	Macrogol 4 lauryl ether	1911015-01	32
Euro OTC	Lauromacrogol 400	1919-02384	1
Euro OTC	Lauromacrogol 400	1919G-02384	1
Euro OTC	Macrogol 4 lauryl ether	19G09-B02	1
Euro OTC	Lauromacrogol 400	19G09-B02-072842	1
Euro OTC	Lauromacrogol 400	20001966001	1
Euro OTC	Lauromacrogol 400	2003031	1
Euro OTC	Lauromacrogol 400	200303101	1
Euro OTC	Macrogol 4 lauryl ether	2003031-01	22
Euro OTC	Lauromacrogol 400	2007042-01	27
Euro OTC	Lauromacrogol 400	2007042-02	3
Euro OTC	Lauromacrogol 400	207042-01	1
Euro OTC	Lauromacrogol 400	2106011-01	6
Euro OTC	Lauromacrogol 400	2106011-02	2
Euro OTC	Lauromacrogol 400	221542	1
Euro OTC	Lauromacrogol 400	260315/1	1
Euro OTC	Macrogolglycerol hydroxystea...	28227168E0	1
Euro OTC	Lauromacrogol 400	502956	1
Euro OTC	Lauromacrogol 400	9139415	1
Euro OTC	Lauromacrogol 400	MLE2018625	1
Euro	Lauromacrogol 400	1510024-01	1
EuRoh/ Gehe	Macrogol 4 lauryl ether	18215501	1
Fa. BTC	Macrogolglycerol hydroxystea...	101818	6
Fa. BTC	Macrogolglycerol hydroxystea...	81830	2
Fafron/Anzag	Macrogolglycerol hydroxystea...	49426297V0	1
Fagaron	Lauromacrogol 400	15G10-B05	1
Fagon / Gehe	Lauromacrogol 400	19G09-B02-072832	1
Fagon	Lauromacrogol 400	15G10-B05-318670	1
fagr	Lauromacrogol 400	16-0290	1
Fagro, Gehe 01.02.2019	Lauromacrogol 400	18D30-B09-352738	1
Fagro/ Sanacorp	Lauromacrogol 400	18B26-B06-346396	2
Fagro/Noweda	Lauromacrogol 400	18826-806-346397	1
Fagrom/VDL	Macrogolglycerol hydroxystea...	14K28-B01-301467	1
Fagron	Lauromacrogol 400		1
Fagron	Macrogolglycerol hydroxystea...	1(18G13B05355855)	1
Fagron	Macrogol 4 lauryl ether	112-0766602	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lauromacrogol 400	117A23-B01-330982	1
Fagron	Lauromacrogol 400	11B11-N15	2
Fagron	Lauromacrogol 400	11D28-N20	1
Fagron	Lauromacrogol 400	11f28-n08	1
Fagron	Lauromacrogol 400	11F28-N08	4
Fagron	Lauromacrogol 400	11I07-N05	1
Fagron	Macrogolglycerol hydroxystea...	11K16-N09	3
Fagron	Lauromacrogol 400	12/18-N04	5
Fagron	Lauromacrogol 400	12-0719	1
Fagron	Lauromacrogol 400	12-1074	1
Fagron	Lauromacrogol 400	1298974	1
Fagron	Lauromacrogol 400	12a26-n08	1
Fagron	Lauromacrogol 400	12A26-N08	9
Fagron	Lauromacrogol 400	12A26-N08	1
Fagron	Macrogolglycerol hydroxystea...	12D23-N03	1
Fagron	Lauromacrogol 400	12e03-n04	1
Fagron	Lauromacrogol 400	12E03-N04	23
Fagron	Macrogolglycerol hydroxystea...	12E11-N03	4
Fagron	Macrogolglycerol hydroxystea...	12H24N06	1
Fagron	Macrogolglycerol hydroxystea...	12H24-N06	4
Fagron	Lauromacrogol 400	12I18-n04	1
Fagron	Lauromacrogol 400	12I18-N04	2
Fagron	Macrogolglycerol hydroxystea...	12L06-N02	12
Fagron	Lauromacrogol 400	12l18-N04	1
Fagron	Lauromacrogol 400	130109	1
Fagron	Lauromacrogol 400	130599	1
Fagron	Lauromacrogol 400	13-0599	2
Fagron	Macrogol 4 lauryl ether	13136202	1
Fagron	Lauromacrogol 400	1314A-02384	1
Fagron	Lauromacrogol 400	13-1827	3
Fagron	Lauromacrogol 400	13813-n01	1
Fagron	Lauromacrogol 400	13813-N01	3
Fagron	Lauromacrogol 400	13A31-N04	3
Fagron	Macrogol 4 lauryl ether	13B13_N01	1
Fagron	Lauromacrogol 400	13b13-n01	1
Fagron	Lauromacrogol 400	13B13N01	1
Fagron	Lauromacrogol 400	13B13-N01	26
Fagron	Lauromacrogol 400	13B13-No1	1
Fagron	Lauromacrogol 400	13B13-N01	1
Fagron	Macrogolglycerol hydroxystea...	13d23-n03	1
Fagron	Macrogolglycerol hydroxystea...	13D23N03	3
Fagron	Macrogolglycerol hydroxystea...	13D23-N03	14
Fagron	Macrogolglycerol hydroxystea...	13D23-N03	2
Fagron	Lauromacrogol 400	13F13-N07	5
Fagron	Lauromacrogol 400	13g02-n03	1
Fagron	Lauromacrogol 400	13G02N03	3
Fagron	Lauromacrogol 400	13G02-N03	16
Fagron	Lauromacrogol 400	13G02-N030021/1084	1
Fagron	Lauromacrogol 400	13G02-N030047/1084	1
Fagron	Lauromacrogol 400	13G02-N030515/1084	1
Fagron	Lauromacrogol 400	13G02-No3	2
Fagron	Macrogolglycerol hydroxystea...	13G03-N18	4
Fagron	Lauromacrogol 400	13J01-N03	2
Fagron	Macrogolglycerol hydroxystea...	13K07N02	3
Fagron	Macrogolglycerol hydroxystea...	13K07-N02	6
Fagron	Lauromacrogol 400	13K18-B30	5
Fagron	Lauromacrogol 400	13K18-B30_288163	1
Fagron	Lauromacrogol 400	13K18-B30-28816	2
Fagron	Lauromacrogol 400	13k18-b30-288163	1
Fagron	Macrogol 4 lauryl ether	13K18-B30-288163	11

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lauromacrogol 400	13K18-B30-288164	4
Fagron	Lauromacrogol 400	13K18-B30-288165	2
Fagron	Lauromacrogol 400	14-0731	6
Fagron	Lauromacrogol 400	140911	1
Fagron	Lauromacrogol 400	1412296	1
Fagron	Lauromacrogol 400	14-1492	1
Fagron	Lauromacrogol 400	1416A-02384	1
Fagron	Lauromacrogol 400	14220816	1
Fagron	Lauromacrogol 400	14371706	1
Fagron	Lauromacrogol 400	148D30-B09-350640	1
Fagron	Lauromacrogol 400	14A23B01332867	2
Fagron	Lauromacrogol 400	14A26-B02-303629	1
Fagron	Macrogolglycerol hydroxystea...	14B14B06	1
Fagron	Macrogolglycerol hydroxystea...	14B14-B06	7
Fagron	Macrogolglycerol hydroxystea...	14B14-B06-29212160	1
Fagron	Macrogolglycerol hydroxystea...	14B14-B06292160	2
Fagron	Macrogolglycerol hydroxystea...	14B14-B06-292160	14
Fagron	Macrogolglycerol hydroxystea...	14B14-B06-295468	1
Fagron	Macrogolglycerol hydroxystea...	14B14-B06-295486	9
Fagron	Macrogolglycerol hydroxystea...	14B14-B06-2965486	1
Fagron	Lauromacrogol 400	14e06-b05	1
Fagron	Lauromacrogol 400	14E06-B05	1
Fagron	Lauromacrogol 400	14E06-B05293846	1
Fagron	Macrogol 4 lauryl ether	14E06-B05-293846	5
Fagron	Lauromacrogol 400	14e06-b05-293847	1
Fagron	Lauromacrogol 400	14E06-B05-293847	14
Fagron	Lauromacrogol 400	14E06-B05293848	1
Fagron	Macrogol 4 lauryl ether	14E06-B05-293848	4
Fagron	Lauromacrogol 400	14E06-B05-293849	1
Fagron	Lauromacrogol 400	14E06-B05-295979	4
Fagron	Lauromacrogol 400	14E06-B05-29847	1
Fagron	Lauromacrogol 400	14H04B03	1
Fagron	Lauromacrogol 400	14H04-B03	7
Fagron	Lauromacrogol 400	14H04-B03-297070	5
Fagron	Lauromacrogol 400	14H04-B03-297071	2
Fagron	Lauromacrogol 400	14h04-b03-297073	1
Fagron	Lauromacrogol 400	14H04-B03-297073	4
Fagron	Lauromacrogol 400	14H04-B03-297074	2
Fagron	Lauromacrogol 400	14H04-B03-301517	5
Fagron	Lauromacrogol 400	14h04-b03-301518	1
Fagron	Lauromacrogol 400	14H04-B03-301518	3
Fagron	Lauromacrogol 400	14H-04-B03-301518	2
Fagron	Lauromacrogol 400	14H04-B03-301519	6
Fagron	Lauromacrogol 400	14H04-B03-301520	4
Fagron	Macrogolglycerol hydroxystea...	14K28-801-301467	1
Fagron	Macrogolglycerol hydroxystea...	14K28-B01	6
Fagron	Macrogolglycerol hydroxystea...	14K28B01301467	1
Fagron	Macrogolglycerol hydroxystea...	14K28-B01-301467	16
Fagron	Macrogolglycerol hydroxystea...	14K28-B01-301468	12
Fagron	Macrogolglycerol hydroxystea...	14K28-B01-309197	3
Fagron	Macrogolglycerol hydroxystea...	150056P0	1
Fagron	Lauromacrogol 400	15-0596	3
Fagron	Lauromacrogol 400	1510024-02	1
Fagron	Macrogolglycerol hydroxystea...	153356P0	1
Fagron	Lauromacrogol 400	15a26-B02	1
Fagron	Macrogol 4 lauryl ether	15A26B02	1
Fagron	Lauromacrogol 400	15A26-B02	10
Fagron	Lauromacrogol 400	15A26-B02_303626	1
Fagron	Lauromacrogol 400	15a26-b02-303625	1
Fagron	Lauromacrogol 400	15A26-B02-303625	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lauromacrogol 400	15A26-B02-303626	6
Fagron	Lauromacrogol 400	15A26B02303627	1
Fagron	Lauromacrogol 400	15A26B02-303627	1
Fagron	Lauromacrogol 400	15A26-B02-303627	6
Fagron	Lauromacrogol 400	15a26-b02-303628	1
Fagron	Lauromacrogol 400	15A26-B02303628	1
Fagron	Lauromacrogol 400	15A26-B02-303628	24
Fagron	Lauromacrogol 400	15A26-B02-303629	7
Fagron	Lauromacrogol 400	15A26-B02-30628	1
Fagron	Lauromacrogol 400	15A26-BO2-303626	1
Fagron	Lauromacrogol 400	15C10-B05-314366	1
Fagron	Macrogolglycerol hydroxystea…	15E18-B10	3
Fagron	Macrogolglycerol hydroxystea…	15E18-B10-309198	5
Fagron	Lauromacrogol 400	15E27-B99-308668	1
Fagron	Lauromacrogol 400	15G10	2
Fagron	Lauromacrogol 400	15G10-B025-318670	1
Fagron	Macrogol 4 lauryl ether	15G10-B05	9
Fagron	Lauromacrogol 400	15G10-B05_315343	1
Fagron	Lauromacrogol 400	15g10-b05-313605	2
Fagron	Lauromacrogol 400	15G10-B05-313605	6
Fagron	Lauromacrogol 400	15G10-B05-313606	1
Fagron	Lauromacrogol 400	15G10-B05-314366	5
Fagron	Lauromacrogol 400	15G10-B05-31457	1
Fagron	Lauromacrogol 400	15G10B05315343	1
Fagron	Macrogol 4 lauryl ether	15G10-B05-315343	7
Fagron	Macrogol 4 lauryl ether	15G10-B05-315605	1
Fagron	Lauromacrogol 400	15G10-B05-31745	1
Fagron	Lauromacrogol 400	15g10-b05-317456	1
Fagron	Lauromacrogol 400	15G10-B05317456	2
Fagron	Lauromacrogol 400	15G10-B05-317456	7
Fagron	Lauromacrogol 400	15g10-b05-317457	2
Fagron	Lauromacrogol 400	15G10-B05-317457	6
Fagron	Lauromacrogol 400	15G10-B05-317458	1
Fagron	Lauromacrogol 400	15G10-B05-317-56	1
Fagron	Lauromacrogol 400	15G10-B05-318670	4
Fagron	Lauromacrogol 400	15G1-B05-313605	1
Fagron	Lauromacrogol 400	16/149/P	1
Fagron	Lauromacrogol 400	16-0290	7
Fagron	Lauromacrogol 400	160312	3
Fagron	Lauromacrogol 400	160312/A	1
Fagron	Lauromacrogol 400	160312A	2
Fagron	Lauromacrogol 400	1605006-01	1
Fagron	Macrogolglycerol hydroxystea…	160516172	1
Fagron	Lauromacrogol 400	16-1155	1
Fagron	Lauromacrogol 400	1618B04-324095	1
Fagron	Lauromacrogol 400	16B18-B04-321109	1
Fagron	Lauromacrogol 400	16E18-804-321110	1
Fagron	Lauromacrogol 400	16E18804-322722	1
Fagron	Lauromacrogol 400	16E18-804-324095	1
Fagron	Lauromacrogol 400	16E18-804-326090	1
Fagron	Lauromacrogol 400	16E18-B	1
Fagron	Lauromacrogol 400	16E18-B04	25
Fagron	Lauromacrogol 400	16E-18-B04	1
Fagron	Lauromacrogol 400	16E18-B04_326089	2
Fagron	Lauromacrogol 400	16E18-B04_328699	1
Fagron	Lauromacrogol 400	16E18-B04-0290	1
Fagron	Lauromacrogol 400	16e18-b04-32109	1
Fagron	Lauromacrogol 400	16e18-b04-321109	1
Fagron	Lauromacrogol 400	16E18-B04-321109	7
Fagron	Lauromacrogol 400	16E-18-B04-321109	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lauromacrogol 400	16e18-b04-321110	1
Fagron	Lauromacrogol 400	16E18B04-321110	1
Fagron	Lauromacrogol 400	16E18-B04-321110	5
Fagron	Lauromacrogol 400	16E18-B04-322722	14
Fagron	Lauromacrogol 400	16E18-B04-322723	8
Fagron	Lauromacrogol 400	16E18-B04-322724	3
Fagron	Lauromacrogol 400	16e18-b04-324095	1
Fagron	Macrogol 4 lauryl ether	16E18-B04-324095	15
Fagron	Lauromacrogol 400	16E-18-B04-324095	1
Fagron	Lauromacrogol 400	16E18-B04-32495	1
Fagron	Lauromacrogol 400	16E18B04326089	1
Fagron	Lauromacrogol 400	16E18-B04-326089	11
Fagron	Lauromacrogol 400	16E18-B04-326090	11
Fagron	Lauromacrogol 400	16E18-B04-326091	6
Fagron	Macrogol 4 lauryl ether	16E18-B04-326871	2
Fagron	Macrogol 4 lauryl ether	16E18-B04-327811	8
Fagron	Lauromacrogol 400	16E-18-B04-327811	1
Fagron	Lauromacrogol 400	16E18-B04-328582	4
Fagron	Lauromacrogol 400	16E-18-B04-328582	1
Fagron	Lauromacrogol 400	16E18-B04-328699	16
Fagron	Macrogol 4 lauryl ether	16E18-B04-328737	2
Fagron	Lauromacrogol 400	16E-18-BB04-324095	1
Fagron	Lauromacrogol 400	16E18-BO4-324095	1
Fagron	Lauromacrogol 400	16E-B04-328737	1
Fagron	Macrogol 4 lauryl ether	17028303	1
Fagron	Macrogol 4 lauryl ether	170303301	1
Fagron	Lauromacrogol 400	170845	1
Fagron	Macrogol 4 lauryl ether	17-0845	6
Fagron	Lauromacrogol 400	1723-335356	1
Fagron	Macrogolglycerol hydroxystea…	17257003	2
Fagron	Macrogolglycerol hydroxystea…	17546624U0	1
Fagron	Macrogolglycerol hydroxystea…	17546624UO	1
Fagron	Lauromacrogol 400	17A21-B07	1
Fagron	Lauromacrogol 400	17a23801335355	1
Fagron	Macrogol 4 lauryl ether	17A23-B01	22
Fagron	Lauromacrogol 400	17A23-B01_332867	1
Fagron	Lauromacrogol 400	17A23B01-330982	1
Fagron	Lauromacrogol 400	17A23-B01-330982	7
Fagron	Lauromacrogol 400	17A23B01330983	2
Fagron	Lauromacrogol 400	17A23-B01-330983	12
Fagron	Lauromacrogol 400	17A23-B01-331156	4
Fagron	Macrogol 4 lauryl ether	17A23-B01-332867	13
Fagron	Macrogol 4 lauryl ether	17A23-B01-332868	7
Fagron	Lauromacrogol 400	17A23-B01-332869	6
Fagron	Lauromacrogol 400	17A23-B01-334909	1
Fagron	Lauromacrogol 400	17A23-B01-335355	8
Fagron	Lauromacrogol 400	17A23-B01-335356	2
Fagron	Lauromacrogol 400	17A23-B01-355355	1
Fagron	Lauromacrogol 400	17A23-B10-335356	1
Fagron	Lauromacrogol 400	17A23-BO1-332867	2
Fagron	Lauromacrogol 400	17AB23-B01-332868	1
Fagron	Macrogolglycerol hydroxystea…	17D03-B04-333357	1
Fagron	Lauromacrogol 400	17H21-807	1
Fagron	Lauromacrogol 400	17H21-B06-341764	1
Fagron	Lauromacrogol 400	17H21B07	1
Fagron	Lauromacrogol 400	17H21-B07	21
Fagron	Lauromacrogol 400	17H21-b07-339504	1
Fagron	Lauromacrogol 400	17H21-B07339504	1
Fagron	Lauromacrogol 400	17H21-B07-339504	8
Fagron	Macrogol 4 lauryl ether	17H21-B07-339505	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Lauromacrogol 400	17H21-B07-339506	9
Fagron	Lauromacrogol 400	17H21-B07-339507	1
Fagron	Lauromacrogol 400	17H21-B07-3411795	1
Fagron	Lauromacrogol 400	17h21-b07-341795	1
Fagron	Lauromacrogol 400	17H21B07341795	1
Fagron	Lauromacrogol 400	17H21-B07-341795	19
Fagron	Macrogol 4 lauryl ether	17H21-B07-341796	19
Fagron	Lauromacrogol 400	17H21-B-07-341796	1
Fagron	Lauromacrogol 400	17H21-B07-341797	2
Fagron	Lauromacrogol 400	17H21-BO7-339505	1
Fagron	Macrogol 4 lauryl ether	17H21-Bo7-341795	1
Fagron	Macrogolglycerol hydroxystea…	17J05-B99-341057	1
Fagron	Lauromacrogol 400	18003513P-190312-7	1
Fagron	Macrogol 4 lauryl ether	18-0103	17
Fagron	Lauromacrogol 400	1808025-01	1
Fagron	Lauromacrogol 400	1808-B03-355981	1
Fagron	Lauromacrogol 400	1817309	1
Fagron	Lauromacrogol 400	18175502	1
Fagron	Lauromacrogol 400	18175508	1
Fagron	Macrogolglycerol hydroxystea…	18204509	1
Fagron	Macrogol 4 lauryl ether	18215501	1
Fagron	Lauromacrogol 400	18826-06-346396	1
Fagron	Macrogol 4 lauryl ether	18826-B06	2
Fagron	Lauromacrogol 400	18826-B06-346396	1
Fagron	Lauromacrogol 400	18826-B06-346397	2
Fagron	Lauromacrogol 400	18826-B06-346398	2
Fagron	Lauromacrogol 400	18826-B06347341	1
Fagron	Lauromacrogol 400	18826-B06-347341	1
Fagron	Lauromacrogol 400	18826-B06-347342	1
Fagron	Lauromacrogol 400	18826-B06-347343	2
Fagron	Lauromacrogol 400	188B26-B06-346396	3
Fagron	Lauromacrogol 400	18A18-B98	3
Fagron	Lauromacrogol 400	18A18-B98-344789	1
Fagron	Lauromacrogol 400	18A18B98344797	1
Fagron	Lauromacrogol 400	18A18-B98-344797	2
Fagron	Lauromacrogol 400	18A-18-B98-344797	1
Fagron	Lauromacrogol 400	18a18b98344798	1
Fagron	Lauromacrogol 400	18A18-B98-344798	9
Fagron	Lauromacrogol 400	18a18-b98-344799	1
Fagron	Macrogol 4 lauryl ether	18A18-B98-344799	10
Fagron	Lauromacrogol 400	18A18-B98-344800	2
Fagron	Lauromacrogol 400	18A19-B98-344798	1
Fagron	Lauromacrogol 400	18B26-B03-347343	1
Fagron	Lauromacrogol 400	18b26-b06	1
Fagron	Lauromacrogol 400	18B26B06	1
Fagron	Macrogol 4 lauryl ether	18B26-B06	13
Fagron	Lauromacrogol 400	18B26-B06-0103	1
Fagron	Lauromacrogol 400	18B26-B06-346369	1
Fagron	Lauromacrogol 400	18B26B06346396	2
Fagron	Macrogol 4 lauryl ether	18B26-B06-346396	7
Fagron	Lauromacrogol 400	18b26-b06-346397	1
Fagron	Lauromacrogol 400	18B26B06346397	2
Fagron	Macrogol 4 lauryl ether	18B26-B06-346397	11
Fagron	Macrogol 4 lauryl ether	18B26-B06346398	1
Fagron	Macrogol 4 lauryl ether	18B26-B06-346398	9
Fagron	Lauromacrogol 400	18b26-b06-347341	1
Fagron	Lauromacrogol 400	18B26-B06347341	1
Fagron	Macrogol 4 lauryl ether	18B26-B06-347341	16
Fagron	Macrogol 4 lauryl ether	18B26B06347342	2
Fagron	Lauromacrogol 400	18B26-B06-347342	16

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Macrogol 4 lauryl ether	18B26-B06-347343	8
Fagron	Lauromacrogol 400	18B26-B06-347344	1
Fagron	Lauromacrogol 400	18B26-Bo6-346397	2
Fagron	Macrogol 4 lauryl ether	18B2-B06	1
Fagron	Lauromacrogol 400	18B30-B09	1
Fagron	Lauromacrogol 400	18D30	1
Fagron	Lauromacrogol 400	18D30-309-350641	1
Fagron	Lauromacrogol 400	18D30-B03-352739	1
Fagron	Lauromacrogol 400	18D30B09	1
Fagron	Macrogol 4 lauryl ether	18D30-B09	17
Fagron	Lauromacrogol 400	18D30-B09	1
Fagron	Lauromacrogol 400	18D30-B09-349679	3
Fagron	Macrogol 4 lauryl ether	18d30-b09-350640	4
Fagron	Lauromacrogol 400	18D30B09350640	1
Fagron	Macrogol 4 lauryl ether	18D30-B09-350640	15
Fagron	Lauromacrogol 400	18D30B09350641	2
Fagron	Macrogol 4 lauryl ether	18D30-B09-350641	16
Fagron	Lauromacrogol 400	18D30B09-350642	1
Fagron	Macrogol 4 lauryl ether	18D30-B09-350642	7
Fagron	Lauromacrogol 400	18d30b09352738	1
Fagron	Macrogol 4 lauryl ether	18D30-B09-352738	18
Fagron	Lauromacrogol 400	18d30b09352739	1
Fagron	Lauromacrogol 400	18D30B09-352739	1
Fagron	Lauromacrogol 400	18D30-B09352739	1
Fagron	Lauromacrogol 400	18D30-B09-352739	12
Fagron	Lauromacrogol 400	18D30B09352740	1
Fagron	Lauromacrogol 400	18D30-B09-352740	10
Fagron	Lauromacrogol 400	18D30B221542	1
Fagron	Macrogolglycerol hydroxystea...	18G13-B05	5
Fagron	Macrogolglycerol hydroxystea...	18G13-B05_355855	1
Fagron	Macrogolglycerol hydroxystea...	18G13-B05-33855	1
Fagron	Macrogolglycerol hydroxystea...	18G13-B05-351723	11
Fagron	Macrogolglycerol hydroxystea...	18G13B05355855	1
Fagron	Macrogolglycerol hydroxystea...	18G13-B05355855	1
Fagron	Macrogolglycerol hydroxystea...	18G13-B05-355855	13
Fagron	Macrogolglycerol hydroxystea...	18G13-B05-357024	5
Fagron	Lauromacrogol 400	18I08-B03-355980	1
Fagron	Lauromacrogol 400	18I08-B03-355981	1
Fagron	Lauromacrogol 400	18J08-B03	6
Fagron	Lauromacrogol 400	18J08-B03-3555980	2
Fagron	Lauromacrogol 400	18J08-B03-3555981	1
Fagron	Lauromacrogol 400	18J08B03355980	1
Fagron	Lauromacrogol 400	18J08-B03355980	1
Fagron	Macrogol 4 lauryl ether	18J08-B03-355980	15
Fagron	Lauromacrogol 400	18J08-B03-355981	6
Fagron	Macrogol 4 lauryl ether	18J08-B03-355982	11
Fagron	Lauromacrogol 400	18JO8-B03	2
Fagron	Lauromacrogol 400	18jo8b03355982	1
Fagron	Lauromacrogol 400	19054203	4
Fagron	Lauromacrogol 400	19064501	2
Fagron	Lauromacrogol 400	19064501A	1
Fagron	Lauromacrogol 400	19-0653	2
Fagron	Macrogol 4 lauryl ether	1907010-01	3
Fagron	Lauromacrogol 400	19096701	1
Fagron	Lauromacrogol 400	191310003	1
Fagron	Macrogolglycerol hydroxystea...	19248475L0	1
Fagron	Macrogolglycerol hydroxystea...	19248475LO	2
Fagron	Macrogolglycerol hydroxystea...	19D30-B03	2
Fagron	Macrogolglycerol hydroxystea...	19D30-B03_362727	1
Fagron	Macrogolglycerol hydroxystea...	19D30-B03-3622727	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Macrogolglycerol hydroxystea…	19D30-B03-362726	12
Fagron	Macrogolglycerol hydroxystea…	19D30-B03-362727	11
Fagron	Macrogolglycerol hydroxystea…	19D30B03362776	1
Fagron	Macrogol 4 lauryl ether	19G09	1
Fagron	Lauromacrogol 400	19G09_B02_072831	1
Fagron	Macrogol 4 lauryl ether	19G09-802	2
Fagron	Macrogol 4 lauryl ether	19G09B02	1
Fagron	Macrogol 4 lauryl ether	19G09-B02	32
Fagron	Lauromacrogol 400	19G09-B02-0002	1
Fagron	Macrogol 4 lauryl ether	19G09-B02-072831	40
Fagron	Macrogol 4 lauryl ether	19G09B02072832	2
Fagron	Lauromacrogol 400	19G09B02-072832	2
Fagron	Macrogol 4 lauryl ether	19G09-B02-072832	32
Fagron	Lauromacrogol 400	19G09-B02072835	1
Fagron	Macrogol 4 lauryl ether	19G09-B02-072835	18
Fagron	Lauromacrogol 400	19G09-B02-072836	5
Fagron	Lauromacrogol 400	19G09-B02-072837	1
Fagron	Macrogol 4 lauryl ether	19G09-B02-072841	16
Fagron	Lauromacrogol 400	19g09-b02-072842	1
Fagron	Macrogol 4 lauryl ether	19G09-B02-072842	9
Fagron	Macrogol 4 lauryl ether	19G09-B02-072843	3
Fagron	Lauromacrogol 400	19G09-B02-072844	3
Fagron	Lauromacrogol 400	19G09-B02-072B832	1
Fagron	Lauromacrogol 400	19G09-B02P-191206-4	1
Fagron	Lauromacrogol 400	19G11307	1
Fagron	Lauromacrogol 400	19G-B02-072831	1
Fagron	Macrogol 4 lauryl ether	19G09-B02-072842	1
Fagron	Lauromacrogol 400	19G0-B02-072841	1
Fagron	Lauromacrogol 400	1BB26-B06-346398	2
Fagron	Lauromacrogol 400	200020-T12-076662	1
Fagron	Lauromacrogol 400	20020112076662	1
Fagron	Lauromacrogol 400	20020-112-076662	1
Fagron	Macrogol 4 lauryl ether	20020-112-076663	1
Fagron	Lauromacrogol 400	20020-199-090484	1
Fagron	Lauromacrogol 400	20020-T12-060213	1
Fagron	Lauromacrogol 400	20020-T12-076662	2
Fagron	Lauromacrogol 400	20020T12076663	1
Fagron	Macrogol 4 lauryl ether	20020-T12-076663	5
Fagron	Macrogol 4 lauryl ether	20020-T12-0766662	1
Fagron	Lauromacrogol 400	20020-T12-080213	3
Fagron	Lauromacrogol 400	20020T99-090484	2
Fagron	Lauromacrogol 400	20020-T99090484	1
Fagron	Lauromacrogol 400	20-0212	1
Fagron	Lauromacrogol 400	2020-T12-076662	1
Fagron	Macrogolglycerol hydroxystea…	20B030-F13-368511	1
Fagron	Macrogolglycerol hydroxystea…	20B03-F13	3
Fagron	Macrogolglycerol hydroxystea…	20B03-F13-368511	12
Fagron	Macrogolglycerol hydroxystea…	20B03-F13-368512	12
Fagron	Lauromacrogol 400	20D20-0002	1
Fagron	Lauromacrogol 400	20D20-T12	3
Fagron	Lauromacrogol 400	20D20-T12-076662	20
Fagron	Lauromacrogol 400	20D20T12076663	1
Fagron	Lauromacrogol 400	20D20-T12-076663	14
Fagron	Lauromacrogol 400	20D20-T12-080208	3
Fagron	Lauromacrogol 400	20D20-T12-0802103	3
Fagron	Lauromacrogol 400	20D20-T12-080213	5
Fagron	Lauromacrogol 400	20D20-T12-080231	1
Fagron	Lauromacrogol 400	20D20-T90090484	1
Fagron	Lauromacrogol 400	20D20-T99-090482	1
Fagron	Lauromacrogol 400	20D20-T99-090484	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Macrogolglycerol hydroxystea…	20G09-F02	5
Fagron	Macrogolglycerol hydroxystea…	20G09-F02-0001	1
Fagron	Macrogolglycerol hydroxystea…	20G09F02372328	1
Fagron	Macrogolglycerol hydroxystea…	20G09-F02-372328	8
Fagron	Macrogolglycerol hydroxystea…	20G09-F02-372329	4
Fagron	Macrogol 4 lauryl ether	20GO09-F02	1
Fagron	Lauromacrogol 400	21/16-T04-092171	1
Fagron	Lauromacrogol 400	21/16-T04-092172	1
Fagron	Lauromacrogol 400	21-0820	1
Fagron	Lauromacrogol 400	21116-T04-092170	3
Fagron	Lauromacrogol 400	21121201	1
Fagron	Macrogolglycerol hydroxystea…	21A05-F01-376300	5
Fagron	Macrogolglycerol hydroxystea…	21A05-F01-376301	13
Fagron	Macrogolglycerol hydroxystea…	21A29-F02	2
Fagron	Macrogolglycerol hydroxystea…	21A29-F02-376809	6
Fagron	Lauromacrogol 400	21i16-T04-092170	1
Fagron	Lauromacrogol 400	21I16-T04-0921702	1
Fagron	Lauromacrogol 400	21I16-T04-092172	1
Fagron	Lauromacrogol 400	21I1-T04-092171	1
Fagron	Lauromacrogol 400	21IJ27-T17-091736	1
Fagron	Macrogolglycerol hydroxystea…	21J12-817-095756	1
Fagron	Lauromacrogol 400	21J27-T17-0917306	1
Fagron	Lauromacrogol 400	21J27-T17-0917307	1
Fagron	Lauromacrogol 400	21J27-T17-091736	3
Fagron	Lauromacrogol 400	21J27-T17-09173601	1
Fagron	Lauromacrogol 400	21J27-T17-092465	1
Fagron	Lauromacrogol 400	21M16-T04-09217002	1
Fagron	Lauromacrogol 400	21M6T04092170	1
Fagron	Lauromacrogol 400	21M6-T04-092170	3
Fagron	Lauromacrogol 400	21M6-T04-092171	1
Fagron	Lauromacrogol 400	21M6-T04-0927170	1
Fagron	Lauromacrogol 400	221542-0004	1
Fagron	Lauromacrogol 400	2215I-02384	1
Fagron	Lauromacrogol 400	2220-T12-076663	1
Fagron	Lauromacrogol 400	22C09-T09-093879	1
Fagron	Macrogolglycerol hydroxystea…	24244888Q0	1
Fagron	Lauromacrogol 400	2517I-02384	1
Fagron	Macrogolglycerol hydroxystea…	267209T0	3
Fagron	Macrogolglycerol hydroxystea…	2815	1
Fagron	Macrogolglycerol hydroxystea…	2G09-F02-372328	1
Fagron	Lauromacrogol 400	2OD20-T12-076663	1
Fagron	Lauromacrogol 400	3018I-02868	1
Fagron	Lauromacrogol 400	303628	1
Fagron	Macrogolglycerol hydroxystea…	303786970V0	1
Fagron	Macrogolglycerol hydroxystea…	30378697V0	1
Fagron	Macrogolglycerol hydroxystea…	30378697Vo	1
Fagron	Macrogolglycerol hydroxystea…	31547575L0	1
Fagron	Macrogolglycerol hydroxystea…	31547575Lo	2
Fagron	Macrogolglycerol hydroxystea…	31547575LO	1
Fagron	Macrogol 4 lauryl ether	316400031	2
Fagron	Lauromacrogol 400	330983	1
Fagron	Lauromacrogol 400	332867	1
Fagron	Macrogolglycerol hydroxystea…	3415M01308	1
Fagron	Macrogol 4 lauryl ether	341796	1
Fagron	Macrogolglycerol hydroxystea…	36344697VO	2
Fagron	Lauromacrogol 400	3713U-02384	1
Fagron	Lauromacrogol 400	4-09217001	1
Fagron	Macrogolglycerol hydroxystea…	49426297VO	2
Fagron	Macrogolglycerol hydroxystea…	509A372	1
Fagron	Macrogolglycerol hydroxystea…	54764324U0	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Macrogolglycerol hydroxystea…	61788-85-0	1
Fagron	Macrogolglycerol hydroxystea…	700362-0001	1
Fagron	Macrogolglycerol hydroxystea…	702016880o	1
Fagron	Macrogolglycerol hydroxystea…	70201688Q0	2
Fagron	Lauromacrogol 400	72842	1
Fagron	Macrogolglycerol hydroxystea…	79793775L0	1
Fagron	Macrogolglycerol hydroxystea…	85739256P0	1
Fagron	Lauromacrogol 400	8581634	1
Fagron	Macrogolglycerol hydroxystea…	87712168E0	1
Fagron	Macrogolglycerol hydroxystea…	87712168E0	1
Fagron	Macrogolglycerol hydroxystea…	8771216E0	1
Fagron	Lauromacrogol 400	9002-92-0	1
Fagron	Lauromacrogol 400	B02-0728301	1
Fagron	Macrogol 4 lauryl ether	B02-0728305	1
Fagron	Macrogol 4 lauryl ether	B02-0728402	2
Fagron	Lauromacrogol 400	B02-0728403	1
Fagron	Macrogolglycerol hydroxystea…	F01-3763000	1
Fagron	Macrogolglycerol hydroxystea…	F01-3763001	2
Fagron	Macrogolglycerol hydroxystea…	F02-3768009	2
Fagron	Macrogolglycerol hydroxystea…	F13-3685102	1
Fagron	Macrogolglycerol hydroxystea…	F02-3768009	1
Fagron	Lauromacrogol 400	T04-0921700	1
Fagron	Macrogol 4 lauryl ether	T12-0766602	4
Fagron	Macrogol 4 lauryl ether	T12-0766603	1
Fagron	Lauromacrogol 400	T12-0802103	1
Fagron	Lauromacrogol 400	T17-0917306	1
Fagron	Lauromacrogol 400	T-190116-1	1
Fargon / Gehe	Lauromacrogol 400	19G09-B02	1
Fargon / Sanacorp	Macrogolglycerol hydroxystea…	19D30-B03-362727	1
Fargon /Sanacorp	Lauromacrogol 400	18J08-B03	1
Fargon /Sanacorp	Lauromacrogol 400	19G09-B02	1
Fargon GmbH & Co.KG	Lauromacrogol 400	16E18-B04-326091	1
Fargon/ Noweda	Lauromacrogol 400	18J08-B03-355980	1
Fargon/18.07.2013/Noweda	Lauromacrogol 400	13B13-N01	2
Fargon/Gehe	Macrogolglycerol hydroxystea…	17D03-B04-333357	1
Fargon/GEHE	Lauromacrogol 400	19G09-B02-072831	1
Fargon/Gehe	Macrogolglycerol hydroxystea…	54764324U0	1
Fargon/Phönix	Lauromacrogol 400	18D30-B09-350640	1
Fargon	Macrogolglycerol hydroxystea…	13G03-N18	1
Fargon	Lauromacrogol 400	13K18-B30-288166	1
Fargron/ Sanacorp	Lauromacrogol 400	18826b0634639	1
Faron/Noweda	Lauromacrogol 400	1909-B02-072832	1
Fgron	Lauromacrogol 400	18D30-B09-352738	1
Fiebig/ gepepharm	Lauromacrogol 400	140911	1
Fiebig	Lauromacrogol 400	15A26-B02-303629	1
Fiebig	Macrogolglycerol hydroxystea…	16349305	1
Fiebig	Lauromacrogol 400	18175517	1
Fiebig	Macrogol 4 lauryl ether	b02-0728402	1
Frago/Gehe	Lauromacrogol 400	17A23-B01-332869	1
Frago/Noweda	Lauromacrogol 400	17H21-B07	2
Fragon/ Noweda	Lauromacrogol 400	16E18-B04-328699	1
Fragon/Noweda	Lauromacrogol 400	17A23-B01-330982	1
Fragon/Noweda	Lauromacrogol 400	17H21-B07-339507	1
Fsgron/Jenne	Lauromacrogol 400	20D20-T12-076662	1
Gatt-Koller	Lauromacrogol 400	1504/05153915	2
Gatt-Koller	Lauromacrogol 400	1900852	2
Gebepharm GmbH	Lauromacrogol 400	130109	2
gebepharm N PZN 01915345	Lauromacrogol 400	130109	1
Gebepharm/Anzag	Lauromacrogol 400	110408	1
Gebepharm/Anzag	Lauromacrogol 400	130109	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
gebepharm/Phoenix	Lauromacrogol 400	19064501A	1
Gebepharm/Phönix	Lauromacrogol 400	19054203	13
gebepharm	Lauromacrogol 400	20030412-1	1
gebepharm	Lauromacrogol 400	813E-02384	1
gebepharm	Lauromacrogol 400	813Q-02384	1
Gegep / Krieger	Lauromacrogol 400	19054203	1
Gegep / Phoenix	Lauromacrogol 400	19064500	1
Gegepharm / Kehr	Lauromacrogol 400	140911	1
Gegepharm / Phoenix	Lauromacrogol 400	160312A	1
Gegepharm / Phoenix	Lauromacrogol 400	19054203	1
Gegepharm GmbH /Phönix	Lauromacrogol 400	19054203	8
gegepharm GmbH/ Noweda	Lauromacrogol 400	130109	1
Gegepharm GmbH	Lauromacrogol 400	20000841	1
gegepharm GmbH	Lauromacrogol 400	20001966001	1
gegepharm PH	Lauromacrogol 400	16-0290	1
gegepharm PH	Lauromacrogol 400	160312A	2
gegepharm PH	Lauromacrogol 400	19054203	2
gegepharm,Anzag	Lauromacrogol 400	110408	2
Gegepharm/ Phoenix	Lauromacrogol 400	20000841	1
gegepharm/Anzag	Lauromacrogol 400	160312	2
Gegepharm/Ebert	Lauromacrogol 400	140911	1
Gegepharm/Gehe	Lauromacrogol 400	130109	3
gegepharm/Gehe	Lauromacrogol 400	160312	2
gegepharm/GEHE	Lauromacrogol 400	160312A	4
gegepharm/Gehe	Lauromacrogol 400	182743	1
gegepharm/Gehe	Lauromacrogol 400	19064501	4
Gegepharm/N/26.02.13 PZ...	Lauromacrogol 400	110408	1
gegepharm/Noweda	Lauromacrogol 400	160312	3
gegepharm/Noweda	Lauromacrogol 400	160312A	1
gegepharm/Noweda	Lauromacrogol 400	19054203	4
Gegepharm/Noweda	Lauromacrogol 400	19064501	1
Gegepharm/Noweda	Lauromacrogol 400	19064501A	1
gegepharm/Phönix Kunde	Lauromacrogol 400	160312A	2
Gegepharm/Phönix	Lauromacrogol 400	160312	1
Gegepharm/Phönix	Lauromacrogol 400	160312A	1
gegepharm	Lauromacrogol 400	130109	1
gegepharm	Lauromacrogol 400	140911	6
gegepharm	Lauromacrogol 400	160312	3
Gegepharm	Lauromacrogol 400	160312	1
gegepharm	Lauromacrogol 400	1603125281	1
gegepharm	Lauromacrogol 400	1603125464	1
gegepharm	Lauromacrogol 400	160312A	1
Gegepharm	Lauromacrogol 400	160312A	1
Gehe /Caleo	Lauromacrogol 400	17250908	1
Gehe /Caleo	Lauromacrogol 400	17250909	1
Gehe /Caleo	Lauromacrogol 400	18175502	2
GEHE 02.01.2019	Macrogolglycerol hydroxystea...	18204509	1
Gehe 16.11.21, 9,08EUR	Lauromacrogol 400	211125	1
GEHE 28.11.2014	Lauromacrogol 400	14H04-B03-297070	1
Gehe amax	Lauromacrogol 400	15G10-B05-314366	1
Gehe amax	Lauromacrogol 400	1907010-01	1
Gehe gepepharmn	Lauromacrogol 400	110408	1
GEHE Kassel 02.01.2019	Macrogolglycerol hydroxystea...	18278403	1
Gehe/ gepepharm GmbH	Lauromacrogol 400	160312A	1
Gehe/ Spinnrad	Macrogol 4 lauryl ether	715400031	1
Gehe/Fragon	Lauromacrogol 400	15A26B02303627	1
Gehe/Fragon	Lauromacrogol 400	15G10B05317456	1
Gehe/Fragon	Lauromacrogol 400	17A23B01332868	1
gehe/gegepharm	Lauromacrogol 400	20000847	1
Gehe/gepepharm	Lauromacrogol 400	140911	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
gehe/gepepharm	Lauromacrogol 400	160312	1
Gehe/gepepharm	Lauromacrogol 400	160312	1
Gehe/gepepharm	Lauromacrogol 400	160312A	3
Gehe/Gepepharm	Lauromacrogol 400	160312A	1
Gehe/Gepepharm	Lauromacrogol 400	19054203	1
Gehe/gepepharm	Lauromacrogol 400	19054203A	1
Gehe/Noweda	Macrogolglycerol hydroxystea...	17257003	1
Gehe/Spinnrad	Macrogol 4 lauryl ether	715400031	1
Gehe	Lauromacrogol 400	110408	3
Gehe	Macrogol 4 lauryl ether	11220306	1
Gehe	Macrogolglycerol hydroxystea...	11K16-N09	1
Gehe	Lauromacrogol 400	130109	6
GEHE	Lauromacrogol 400	130109	1
Gehe	Macrogol 4 lauryl ether	13136206	1
GEHE	Lauromacrogol 400	13B13-N01	1
Gehe	Macrogolglycerol hydroxystea...	13K07-N02	1
Gehe	Macrogol 4 lauryl ether	14054401	1
Gehe	Lauromacrogol 400	140911	9
Gehe	Macrogolglycerol hydroxystea...	14196804	1
Gehe	Macrogolglycerol hydroxystea...	14K28-B01-301	1
Gehe	Macrogolglycerol hydroxystea...	151694050300	1
GEHE	Macrogol 4 lauryl ether	15323704	1
Gehe	Lauromacrogol 400	1551417	1
Gehe	Lauromacrogol 400	15A26-B02-303628	2
Gehe	Lauromacrogol 400	15G10-Bo5-317457	1
Gehe	Lauromacrogol 400	16-0290	2
Gehe	Lauromacrogol 400	160312	7
GEHE	Lauromacrogol 400	160312	1
Gehe	Macrogolglycerol hydroxystea...	16247401	1
Gehe	Lauromacrogol 400	16E18-B04	1
Gehe	Macrogolglycerol hydroxystea...	16H05-B04-324748	1
Gehe	Lauromacrogol 400	17250901	1
Gehe	Lauromacrogol 400	17250902	1
GEHE	Lauromacrogol 400	17250904	1
GEHE	Lauromacrogol 400	17250909	2
Gehe	Lauromacrogol 400	17250913	3
Gehe	Macrogolglycerol hydroxystea...	17257003	4
Gehe	Lauromacrogol 400	17A23-B01-330983	2
Gehe	Lauromacrogol 400	17A23-B01-332867	1
Gehe	Macrogolglycerol hydroxystea...	17D362-B04-333357	1
Gehe	Lauromacrogol 400	17H21-B07-341795	1
Gehe	Lauromacrogol 400	17H21-b07-341796	1
Gehe	Macrogol 4 lauryl ether	17H21-B07341796	1
GEHE	Lauromacrogol 400	18175501	2
GEHE	Lauromacrogol 400	18175502	2
GEHE	Lauromacrogol 400	18175507	1
Gehe	Macrogolglycerol hydroxystea...	18204509	2
Gehe	Macrogol 4 lauryl ether	18215501	1
Gehe	Macrogolglycerol hydroxystea...	18278410	1
Gehe	Lauromacrogol 400	18D30-B09-350641	2
Gehe	Macrogol 4 lauryl ether	18D30-B09-352738	1
Gehe	Macrogol 4 lauryl ether	18D30-B09-352739	1
Gehe	Lauromacrogol 400	18J8-B03-355980	1
Gehe	Macrogol 4 lauryl ether	1901029-01	1
Gehe	Lauromacrogol 400	19054203	4
Gehe	Macrogol 4 lauryl ether	1907010-01	2
Gehe	Macrogol 4 lauryl ether	190967001	1
GEHE	Lauromacrogol 400	19131004	2
Gehe	Macrogolglycerol hydroxystea...	19d30-b03-362727	1
Gehe	Lauromacrogol 400	20001966001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Lauromacrogol 400	20002697002	3
GEHE	Lauromacrogol 400	20002697002	1
Gehe	Lauromacrogol 400	21000678010	2
GEHE	Macrogol 4 lauryl ether	21021172/5	1
Gehe	Lauromacrogol 400	2116-T04-092170	1
Gehe	Macrogol 4 lauryl ether	218400031	1
Gehe	Macrogol 4 lauryl ether	2240003	1
Gehe	Macrogol 4 lauryl ether	417400031	1
Gehe	Macrogolglycerol hydroxystea...	79793775L0	1
Gehe	Macrogol 4 lauryl ether	818400032	1
Gehe	Lauromacrogol 400	9759896	1
Geibo/ Fargron	Lauromacrogol 400	18D30-B09-352740	1
Geibo/Spinnrad 10.6.21	Macrogol 4 lauryl ether	121400031	1
geoepharm /Gehe	Lauromacrogol 400	160312A	1
Geopharm/Alliance	Lauromacrogol 400	163012A	1
gepapharm GmbH	Lauromacrogol 400	140911	1
GEPE/Anzag	Lauromacrogol 400	110408	2
gepe/Gehe	Lauromacrogol 400	130109	1
gepegepharm/Phoenix	Lauromacrogol 400	160321A	1
Gepegepharm	Lauromacrogol 400	130109	1
gepeharm / Fiebig	Lauromacrogol 400	130109	1
gepeharm/AHD	Lauromacrogol 400	130109	1
gepeharm/Gehe	Lauromacrogol 400	140911	3
Gepeharm/Sanacorp	Lauromacrogol 400	1954203	1
Gepeharm	Lauromacrogol 400	160312	1
Gepehpharm	Lauromacrogol 400	160312	1
gepeoharm / Anzag	Lauromacrogol 400	140911	1
gepep/Phoenix	Lauromacrogol 400	140911	1
Gepeph/Phönix	Lauromacrogol 400	160312	1
gepepharm / G	Lauromacrogol 400	160312A	1
Gepepharm Anzag	Lauromacrogol 400	22(160312A)	1
gepepharm (Thesit)	Lauromacrogol 400	16-0290	1
gepepharm (Thesit)	Lauromacrogol 400	160312	1
gepepharm (Thesit)	Lauromacrogol 400	160312A	1
gepepharm / Alliance he...	Lauromacrogol 400	160312	3
gepepharm / Alliance he...	Lauromacrogol 400	160312A	1
gepepharm / Alliance he...	Lauromacrogol 400	1905423	1
gepepharm / Alliance he...	Lauromacrogol 400	19064501	1
gepepharm / Alliance He...	Lauromacrogol 400	19054203	1
Gepepharm / Alliance	Lauromacrogol 400	19054203	2
gepepharm / Allianz Hea...	Lauromacrogol 400	160312A	1
Gepepharm / Anzag	Lauromacrogol 400	23(19064501A)	1
gepepharm / G	Lauromacrogol 400	160312	1
Gepepharm / Gehe	Lauromacrogol 400	110408	1
Gepepharm / Gehe	Lauromacrogol 400	130109	5
Gepepharm / GEHE	Lauromacrogol 400	130109	1
Gepepharm / Gehe	Lauromacrogol 400	160312A	8
Gepepharm / Gehe	Lauromacrogol 400	182744	1
Gepepharm / Gehe	Lauromacrogol 400	19054203	4
Gepepharm / Gehe	Lauromacrogol 400	19064501A	1
Gepepharm / Gehe	Lauromacrogol 400	20001966001	6
Gepepharm / Jenne	Lauromacrogol 400	19054203	1
Gepepharm / Kehr	Lauromacrogol 400	19054203	1
gepepharm / Noweda	Lauromacrogol 400	110408	1
gepepharm / Noweda	Lauromacrogol 400	130109	7
gepepharm / Noweda	Lauromacrogol 400	140911	1
Gepepharm / Noweda	Lauromacrogol 400	140911	1
gepepharm / Noweda	Lauromacrogol 400	160312	2
Gepepharm / Noweda	Lauromacrogol 400	160312	1
gepepharm / Noweda	Lauromacrogol 400	160312-A	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gepepharm / Noweda	Lauromacrogol 400	19051203	1
Gepepharm / Noweda	Lauromacrogol 400	19064501	2
Gepepharm / Phoenix	Lauromacrogol 400	160312A	1
gepepharm / Phönix	Lauromacrogol 400	140911	3
Gepepharm / Phönix	Lauromacrogol 400	160312A	1
gepepharm / Phönix	Lauromacrogol 400	19054203	10
Gepepharm / Phönix	Lauromacrogol 400	19054203	1
Gepepharm / Sanacorp	Lauromacrogol 400	110408	2
gepepharm / Sanacorp	Lauromacrogol 400	13-0108	1
gepepharm / Sanacorp	Lauromacrogol 400	130109	3
Gepepharm / Sanacorp	Lauromacrogol 400	130109	1
gepepharm / Sanacorp	Lauromacrogol 400	160312	2
Gepepharm /Fiebig	Lauromacrogol 400	labip-g97-110616-01	1
gepepharm /Noweda	Lauromacrogol 400	130109	3
Gepepharm /Noweda	Lauromacrogol 400	140911	1
Gepepharm /Noweda	Lauromacrogol 400	19064501	1
gepepharm AEP	Lauromacrogol 400	19064501	2
gepepharm AHD 07.11.17 ...	Lauromacrogol 400	160312	1
gepepharm AHD 50g	Lauromacrogol 400	19064501A	1
gepepharm AHD	Lauromacrogol 400	160312A	2
gepepharm AHD	Lauromacrogol 400	19054203	1
gepepharm AHD	Lauromacrogol 400	19064501A	1
Gepepharm Anzag	Lauromacrogol 400	110408	16
gepepharm Anzag	Lauromacrogol 400	160312A	1
gepepharm CmbH	Lauromacrogol 400	140911	1
gepepharm CmbH	Lauromacrogol 400	160312	1
gepepharm CmbH	Lauromacrogol 400	160312A	1
GEPEPHARM GEHE 14:02:17	Lauromacrogol 400	160312	7
GEPEPHARM GEHE 25.07.19	Lauromacrogol 400	19054203	1
Gepepharm Gehe	Lauromacrogol 400	182744	1
Gepepharm GmbH / Allian...	Lauromacrogol 400	160312	4
gepepharm GmbH / Allian...	Lauromacrogol 400	140911	1
Gepepharm GmbH / Anzag	Lauromacrogol 400	110408	1
Gepepharm GmbH / Anzag	Lauromacrogol 400	130109	1
gepepharm GmbH / Fiebig	Lauromacrogol 400	19064501	1
Gepepharm GmbH / Gehe	Lauromacrogol 400	160312	1
gepepharm GmbH / Kehr	Lauromacrogol 400	19054203	1
gepepharm GmbH / Noweda	Lauromacrogol 400	19054203	2
gepepharm GmbH / Phönix	Lauromacrogol 400	160312A	10
gepepharm GmbH / Phönix	Lauromacrogol 400	19064501	1
Gepepharm GmbH /Alliance	Lauromacrogol 400	19064501	1
gepepharm GmbH Hennef	Lauromacrogol 400	160312A	1
gepepharm GmbH Hennef	Lauromacrogol 400	19054203	1
gepepharm gmbh noweda	Lauromacrogol 400	160312A	3
gepepharm GmbH, Gehe	Lauromacrogol 400	160312	1
gepepharm GmbH, Gehe	Lauromacrogol 400	19064501	1
Gepepharm GmbH/ Alliance	Lauromacrogol 400	160312	1
Gepepharm GmbH/ Anzag	Lauromacrogol 400	19054203A	1
gepepharm GmbH/ Gehe	Lauromacrogol 400	160312	2
gepepharm GmbH/ NOW	Lauromacrogol 400	140911	1
gepepharm GmbH/ NOW	Lauromacrogol 400	160312A	1
Gepepharm GmbH/ NOWEDA	Lauromacrogol 400	160312A	1
gepepharm gmbh/ Noweda	Lauromacrogol 400	19054203	5
gepepharm Gmbh/ Noweda	Lauromacrogol 400	19054203	1
Gepepharm GmbH/ Noweda	Lauromacrogol 400	19054203	1
Gepepharm GmbH/ NOWEDA	Lauromacrogol 400	19054203	1
Gepepharm GmbH/ NOWEDA	Lauromacrogol 400	19064501	1
gepepharm GmbH/ Phönix	Lauromacrogol 400	19054A203A	1
gepepharm GmbH/Aep	Lauromacrogol 400	19064501	1
gepepharm gmbh/AHD	Lauromacrogol 400	160312A	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gepepharm gmbh/AHD	Lauromacrogol 400	19064501	1
gepepharm GmbH/Alliance...	Lauromacrogol 400	160312A	1
gepepharm GmbH/Anzag	Lauromacrogol 400	19054203	1
gepepharm GmbH/Fiebig	Lauromacrogol 400	160312A	1
gepepharm GmbH/Fiebig	Lauromacrogol 400	19064501A	1
Gepepharm GmbH/Gehe	Lauromacrogol 400		1
gepepharm GmbH/Gehe	Lauromacrogol 400	130109	3
gepepharm GmbH/Gehe	Lauromacrogol 400	140911	3
Gepepharm GmbH/Gehe	Lauromacrogol 400	140911/20160309/13	1
gepepharm GmbH/Gehe	Lauromacrogol 400	160312	5
Gepepharm GmbH/Gehe	Lauromacrogol 400	160312	10
gepepharm GmbH/Gehe	Lauromacrogol 400	19064501A	1
gepepharm GmbH/Gehe	Lauromacrogol 400	20001966001	1
gepepharm GmbH/GEHE	Lauromacrogol 400	2D001966001	1
gepepharm GmbH/Kehr	Lauromacrogol 400	160312	7
gepepharm GmbH/Noweda	Lauromacrogol 400	130109	4
gepepharm gmbH/Noweda	Lauromacrogol 400	160312	1
gepepharm gmbH/Noweda	Lauromacrogol 400	160312A	1
gepepharm GmbH/Noweda	Lauromacrogol 400	19054203A	1
Gepepharm GmbH/Noweda	Lauromacrogol 400	19064501	1
gepepharm GmbH/Noweda	Lauromacrogol 400	19064501A	1
Gepepharm GmbH/Phoenix	Lauromacrogol 400	140911	2
gepepharm gmbH/Phoenix	Lauromacrogol 400	16-0290	2
Gepepharm GmbH/Phoenix	Lauromacrogol 400	160312	2
gepepharm GmbH/Phoenix	Lauromacrogol 400	160312A	1
Gepepharm GmbH/Phoenix	Lauromacrogol 400	160312A	3
gepepharm GmbH/Phoenix	Lauromacrogol 400	19054203	4
gepepharm GmbH/Phoenix	Lauromacrogol 400	19054203A	2
gepepharm GmbH/Phoenix	Lauromacrogol 400	19064501	3
gepepharm GmbH/Phönix	Lauromacrogol 400	140911	1
gepepharm GmbH/Phönix	Lauromacrogol 400	160312	6
gepepharm GmbH/Phönix	Lauromacrogol 400	160312A	4
Gepepharm GmbH/Phönix	Lauromacrogol 400	160312A	1
gepepharm gmbh/Phönix	Lauromacrogol 400	19054203	2
Gepepharm GmbH/Phönix	Lauromacrogol 400	19054203	5
gepepharm GmbH/Phönix	Lauromacrogol 400	19064501A	4
gepepharm GmbH/Phönix	Lauromacrogol 400	20001966001	3
gepepharm GmbH/Sanacorp	Lauromacrogol 400	160312	1
Gepepharm GmbH/Sanacorp	Lauromacrogol 400	160312	2
Gepepharm GmbH/Sanacorp	Lauromacrogol 400	1905203	1
Gepepharm GmbH/Sanacorp	Lauromacrogol 400	19054203	3
gepepharm GmbH/Sanacorp	Lauromacrogol 400	19054203A	1
gepepharm GmbH/Sanacorp	Lauromacrogol 400	19064501	1
Gepepharm GmbH/Sanacorp	Lauromacrogol 400	19064501	2
gepepharm GmbH/Sanacorp	Lauromacrogol 400	20001966001	1
gepepharm GmbH	Lauromacrogol 400	110408	12
Gepepharm GmbH	Lauromacrogol 400	110408	3
gepepharm GmbH	Lauromacrogol 400	13-0108	1
gepepharm gmbh	Lauromacrogol 400	130109	4
gepepharm GmbH	Lauromacrogol 400	130109	27
gepepharm GmbH	Lauromacrogol 400	13-0109	1
gepepharm GmBH	Lauromacrogol 400	130109	1
Gepepharm GmbH	Lauromacrogol 400	130109	1
gepepharm GmbH	Lauromacrogol 400	14091	1
gepepharm GmbH	Lauromacrogol 400	140911	24
Gepepharm GmbH	Lauromacrogol 400	140911	15
Gepepharm GmbH	Lauromacrogol 400	16-0290	1
gepepharm gmbh	Lauromacrogol 400	160312	5
gepepharm GmbH	Lauromacrogol 400	160312	38
Gepepharm GmbH	Lauromacrogol 400	160312	13

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
GEpepharm GmbH	Lauromacrogol 400	160312	3
gepepharm GmbH	Lauromacrogol 400	160312A	12
gepepharm GmBH	Lauromacrogol 400	160312A	1
Gepepharm GmbH	Lauromacrogol 400	160312A	9
gepepharm gmbh	Lauromacrogol 400	17250901	1
gepepharm GmbH	Lauromacrogol 400	182743	1
gepepharm gmbh	Lauromacrogol 400	19054203	1
gepepharm GmbH	Lauromacrogol 400	19054203	29
Gepepharm GmbH	Lauromacrogol 400	19054203	8
gepepharm GmbH	Lauromacrogol 400	19054203A	3
Gepepharm Gmbh	Lauromacrogol 400	19054203A	1
Gepepharm GmbH	Lauromacrogol 400	19054203A	2
gepepharm GmbH	Lauromacrogol 400	19064501	11
Gepepharm GmbH	Lauromacrogol 400	19064501	3
gepepharm GmbH	Lauromacrogol 400	19064501A	8
Gepepharm GmbH	Lauromacrogol 400	19064501A	3
gepepharm GmbH	Lauromacrogol 400	1915345	1
gepepharm GmbH	Lauromacrogol 400	20001966001	7
Gepepharm Gmbh	Lauromacrogol 400	20001966001	1
Gepepharm GmbH	Lauromacrogol 400	20001966001	6
Gepepharm GmbH	Lauromacrogol 400	20001988001	1
gepepharm GmbH	Lauromacrogol 400	27112014A	1
gepepharm GmbH	Lauromacrogol 400	3072014A	1
gepepharm GmbH	Lauromacrogol 400	8062015D	1
Gepepharm GmbH	Lauromacrogol 400	9002-92-0	1
Gepepharm GmH	Lauromacrogol 400	140911	5
gepepharm Noweda	Lauromacrogol 400	19054203	2
gepepharm Noweda	Lauromacrogol 400	19054203A	1
gepepharm Noweda	Lauromacrogol 400	19064501	1
gepepharm Phoenix	Lauromacrogol 400	182743	1
Gepepharm über Phoenix	Lauromacrogol 400	130109	7
Gepepharm über Phoenix	Lauromacrogol 400	140911	3
gepepharm über Phönix	Lauromacrogol 400	20001966001	1
gepepharm, Noweda	Lauromacrogol 400	110408	4
gepepharm, Noweda	Lauromacrogol 400	130109	1
gepepharm, Phoenix	Lauromacrogol 400	20001966001	1
gepepharm,gehe	Lauromacrogol 400	19054203	2
Gepepharm/ Sanacorp	Lauromacrogol 400	160312	1
Gepepharm/ Alliance	Lauromacrogol 400	160312A	1
gepepharm/ Alliance	Lauromacrogol 400	19054203	2
Gepepharm/ Anzag	Lauromacrogol 400	19064501	2
gepepharm/ Gehe 15.12.17	Lauromacrogol 400	160312-20180112Ma7	1
gepepharm/ Gehe 16.10.18	Lauromacrogol 400	160312A-T20181115Ma7	1
gepepharm/ Gehe 26.6.17	Lauromacrogol 400	160312-20170704Ma10	1
gepepharm/ Gehe 5.5.17	Lauromacrogol 400	160312-20170704Ma9	1
Gepepharm/ Gehe	Lauromacrogol 400	140911	2
Gepepharm/ Gehe	Lauromacrogol 400	14-1414	1
gepepharm/ Gehe	Lauromacrogol 400	160312	1
Gepepharm/ Gehe	Lauromacrogol 400	160312	3
gepepharm/ Gehe	Lauromacrogol 400	160312A	6
Gepepharm/ Gehe	Lauromacrogol 400	160312A	1
Gepepharm/ Gehe	Lauromacrogol 400	19064501	1
gepepharm/ Gehe	Lauromacrogol 400	20170829/2	1
Gepepharm/ Jenne	Lauromacrogol 400	160312A	2
gepepharm/ Kehr	Lauromacrogol 400	160312	1
gepepharm/ Noweda	Lauromacrogol 400	130109	4
Gepepharm/ Noweda	Lauromacrogol 400	130109	1
Gepepharm/ Noweda	Lauromacrogol 400	160132	1
gepepharm/ Noweda	Lauromacrogol 400	160312	1
Gepepharm/ Noweda	Lauromacrogol 400	160312a	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gepepharm/ Noweda	Lauromacrogol 400	160312A	7
Gepepharm/ Noweda	Lauromacrogol 400	19054203	1
Gepepharm/ Noweda	Lauromacrogol 400	19064501	1
gepepharm/ Phoenix	Lauromacrogol 400	160312A	1
gepepharm/ Phoenix	Lauromacrogol 400	19054203	1
gepepharm/ Phoenix	Lauromacrogol 400	19064501	2
gepepharm/ Phoenix	Lauromacrogol 400	19064501A	1
Gepepharm/ Phönix	Lauromacrogol 400	140911	1
gepepharm/ Phönix	Lauromacrogol 400	160312	1
Gepepharm/ Phönix	Lauromacrogol 400	160312	4
Gepepharm/ Phönix	Lauromacrogol 400	160312A	4
gepepharm/ Phönix	Lauromacrogol 400	182744	1
gepepharm/ Phönix	Lauromacrogol 400	19054203	1
Gepepharm/ Phönix	Lauromacrogol 400	19054203	1
gepepharm/ Phönix	Lauromacrogol 400	20001966001	1
gepepharm/ Sanacorp 22....	Lauromacrogol 400	130109	1
gepepharm/ Sanacorp	Lauromacrogol 400	160312	1
gepepharm/ Sanacorp	Lauromacrogol 400	19064501	1
gepepharm/ VDL	Lauromacrogol 400	160312	1
gepepharm/17.07.20/gehe	Lauromacrogol 400	19064501	5
Gepepharm/3	Lauromacrogol 400	160312A	1
gepepharm/AHD/03.07.19	Lauromacrogol 400	19054203	9
gepepharm/AHD	Lauromacrogol 400	160312	2
Gepepharm/AHD	Lauromacrogol 400	160312	2
GepePharm/AHD	Lauromacrogol 400	160312	1
gepepharm/AHD	Lauromacrogol 400	1603123A	1
gepepharm/AHD	Lauromacrogol 400	160312A	1
gepepharm/AHD	Lauromacrogol 400	19054203	2
gepepharm/AHD	Lauromacrogol 400	19064501	1
gepepharm/Alliance	Lauromacrogol 400	16-0290	1
Gepepharm/Alliance	Lauromacrogol 400	160312	1
gepepharm/Alliance	Lauromacrogol 400	160312A	11
Gepepharm/Alliance	Lauromacrogol 400	160312A	9
Gepepharm/Alliance	Lauromacrogol 400	182743	1
gepepharm/Alliance	Lauromacrogol 400	19054203	1
Gepepharm/Alliance	Lauromacrogol 400	19054203	7
gepepharm/Alliance	Lauromacrogol 400	19064501A	1
gepepharm/Alliance	Lauromacrogol 400	20000841	1
gepepharm/Anzag 27.04.2...	Lauromacrogol 400	110408	8
gepepharm/Anzag	Lauromacrogol 400	130109	1
Gepepharm/Anzag	Lauromacrogol 400	140911	1
gepepharm/Anzag	Lauromacrogol 400	160312	2
Gepepharm/Anzag	Lauromacrogol 400	160312	4
Gepepharm/Anzag	Lauromacrogol 400	160312A	1
gepepharm/Ebert	Lauromacrogol 400	110408	2
gepepharm/Ebert	Lauromacrogol 400	130109	2
gepepharm/Fiebig 18.03....	Lauromacrogol 400	19064501a	1
Gepepharm/Fiebig	Lauromacrogol 400	130109	1
Gepepharm/Fiebig	Lauromacrogol 400	160312	1
gepepharm/Fiebig	Lauromacrogol 400	182743	1
gepepharm/Fiebig	Lauromacrogol 400	19054203	2
Gepepharm/Fiebig	Lauromacrogol 400	19064501	2
gepepharm/Fiebig	Lauromacrogol 400	20001966001	1
gepepharm/G	Lauromacrogol 400	140911	1
gepepharm/gehe	Lauromacrogol 400	110408	2
Gepepharm/Gehe	Lauromacrogol 400	110408	2
gepepharm/gehe	Lauromacrogol 400	130109	2
gepepharm/Gehe	Lauromacrogol 400	130109	3
gepepharm/Gehe	Lauromacrogol 400	140911	1
Gepepharm/Gehe	Lauromacrogol 400	140911	12

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
gepepharm/Gehe	Lauromacrogol 400	14-1414	2
gepepharm/gehe	Lauromacrogol 400	160312	5
gepepharm/Gehe	Lauromacrogol 400	160312	19
Gepepharm/Gehe	Lauromacrogol 400	160312	4
gepepharm/gehe	Lauromacrogol 400	160312A	6
gepepharm/Gehe	Lauromacrogol 400	160312A	7
Gepepharm/gehe	Lauromacrogol 400	160312A	3
Gepepharm/Gehe	Lauromacrogol 400	160312A	8
Gepepharm/Gehe	Lauromacrogol 400	17250913	1
Gepepharm/Gehe	Lauromacrogol 400	182743	1
gepepharm/Gehe	Lauromacrogol 400	19054203	7
Gepepharm/Gehe	Lauromacrogol 400	19054203	2
gepepharm/gehe	Lauromacrogol 400	19064501	1
gepepharm/Gehe	Lauromacrogol 400	19064501	1
Gepepharm/Gehe	Lauromacrogol 400	19064501	1
gepepharm/Gehe	Lauromacrogol 400	20001966001	3
gepepharm/Kehr , 04.09....	Lauromacrogol 400	19054203	1
gepepharm/Kehr , 09.07....	Lauromacrogol 400	19064501	2
gepepharm/Kehr	Lauromacrogol 400	160312A	1
Gepepharm/Kehr	Lauromacrogol 400	160312A	1
gepepharm/Kehr	Lauromacrogol 400	19054203A	1
gepepharm/Kehr	Lauromacrogol 400	20001966001	2
Gepepharm/Kehr	Lauromacrogol 400	51123/2Sie	1
gepepharm/Krieger	Lauromacrogol 400	160312	1
gepepharm/Krieger	Lauromacrogol 400	160312A	2
Gepepharm/Krieger	Lauromacrogol 400	160312A	1
gepepharm/Krieger	Lauromacrogol 400	19054203	1
Gepepharm/Krieger	Lauromacrogol 400	19054203	1
Gepepharm/Krieger	Lauromacrogol 400	19054203A	1
gepepharm/Nowe	Lauromacrogol 400	160312	11
gepepharm/Noweda	Lauromacrogol 400	130109	2
Gepepharm/Noweda	Lauromacrogol 400	130109	2
gepepharm/Noweda	Lauromacrogol 400	140911	4
Gepepharm/Noweda	Lauromacrogol 400	140911	4
Gepepharm/Noweda	Lauromacrogol 400	1440911	1
Gepepharm/Noweda	Lauromacrogol 400	16-0290	1
gepepharm/Noweda	Lauromacrogol 400	160312	4
Gepepharm/Noweda	Lauromacrogol 400	160312	3
gepepharm/Noweda	Lauromacrogol 400	160312A	4
Gepepharm/Noweda	Lauromacrogol 400	160312A	11
GEPEPHARM/NOWEDA	Lauromacrogol 400	160312A	2
Gepepharm/Noweda	Lauromacrogol 400	182744	1
Gepepharm/Noweda	Lauromacrogol 400	190503	1
gepepharm/Noweda	Lauromacrogol 400	1905403	1
gepepharm/Noweda	Lauromacrogol 400	19054203	1
Gepepharm/Noweda	Lauromacrogol 400	19054203	22
Gepepharm/Noweda	Lauromacrogol 400	19054203A	2
gepepharm/Noweda	Lauromacrogol 400	19064501	3
Gepepharm/Noweda	Lauromacrogol 400	19064501	7
GEPEPHARM/NOWEDA	Lauromacrogol 400	19064501	1
gepepharm/Noweda	Lauromacrogol 400	19064501A	1
Gepepharm/Noweda	Lauromacrogol 400	19064501A	1
gepepharm/Noweda	Lauromacrogol 400	20001966001	1
Gepepharm/Noweda	Lauromacrogol 400	20001966001	1
gepepharm/Otto	Lauromacrogol 400	130109	18
gepepharm/Otto	Lauromacrogol 400	65793	1
gepepharm/Phoenix	Lauromacrogol 400	130109	4
Gepepharm/Phoenix	Lauromacrogol 400	130109	2
gepepharm/Phoenix	Lauromacrogol 400	140911	12
gepepharm/Phoenix	Lauromacrogol 400	160312	13

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gepepharm/Phoenix	Lauromacrogol 400	160312	2
gepepharm/Phoenix	Lauromacrogol 400	160312A	8
Gepepharm/Phoenix	Lauromacrogol 400	160312A	1
Gepepharm/Phoenix	Lauromacrogol 400	1614U2384	1
gepepharm/Phoenix	Lauromacrogol 400	180312A	1
gepepharm/Phoenix	Lauromacrogol 400	19054203	6
Gepepharm/Phoenix	Lauromacrogol 400	19054203	2
Gepepharm/Phoenix	Lauromacrogol 400	19054203A	2
gepepharm/Phoenix	Lauromacrogol 400	19064501	1
gepepharm/Phoenix	Lauromacrogol 400	20001966001	1
Gepepharm/Phoenix	Lauromacrogol 400	3813E02384	1
gepepharm/Phön.x	Lauromacrogol 400	19054203A	1
gepepharm/Phönix 07.09.18	Lauromacrogol 400	160312	1
gepepharm/Phönix	Lauromacrogol 400	1101409	1
gepepharm/Phönix	Lauromacrogol 400	110408	2
gepepharm/Phönix	Lauromacrogol 400	13-0108	1
Gepepharm/Phönix	Lauromacrogol 400	130108	1
gepepharm/Phönix	Lauromacrogol 400	130109	5
Gepepharm/Phönix	Lauromacrogol 400	130109	7
gepepharm/Phönix	Lauromacrogol 400	140911	12
Gepepharm/Phönix	Lauromacrogol 400	140911	4
Gepepharm/Phönix	Lauromacrogol 400	14-1414	2
Gepepharm/Phönix	Lauromacrogol 400	16-0290	3
gepepharm/Phönix	Lauromacrogol 400	160312	5
Gepepharm/Phönix	Lauromacrogol 400	160312	8
gepepharm/Phönix	Lauromacrogol 400	160312a	2
gepepharm/Phönix	Lauromacrogol 400	160312A	4
Gepepharm/Phönix	Lauromacrogol 400	160312A	8
gepepharm/Phönix	Lauromacrogol 400	19054203	4
Gepepharm/Phönix	Lauromacrogol 400	19054203	11
gepepharm/Phönix	Lauromacrogol 400	19054203A	2
Gepepharm/Phönix	Lauromacrogol 400	19054203A	1
Gepepharm/Phönix	Lauromacrogol 400	19054204	1
gepepharm/Phönix	Lauromacrogol 400	19064501	1
Gepepharm/Phönix	Lauromacrogol 400	19064501	3
Gepepharm/Phönix	Lauromacrogol 400	19064501A	1
Gepepharm/Phönix	Lauromacrogol 400	20001966001	7
Gepepharm/Sana	Lauromacrogol 400	140911	1
gepepharm/Sana	Lauromacrogol 400	160312A	2
gepepharm/Sana	Lauromacrogol 400	19054203	11
gepepharm/Sanac	Lauromacrogol 400	130109	1
gepepharm/sanacorp	Lauromacrogol 400	130109	1
gepepharm/Sanacorp	Lauromacrogol 400	130109	7
Gepepharm/Sanacorp	Lauromacrogol 400	130109	6
gepepharm/Sanacorp	Lauromacrogol 400	140911	1
Gepepharm/Sanacorp	Lauromacrogol 400	140911	9
gepepharm/Sanacorp	Lauromacrogol 400	14-1414	1
Gepepharm/Sanacorp	Lauromacrogol 400	14-1414	1
gepepharm/sanacorp	Lauromacrogol 400	160312	1
gepepharm/Sanacorp	Lauromacrogol 400	160312	3
gepepharm/Sanacorp	Lauromacrogol 400	160312A	2
Gepepharm/Sanacorp	Lauromacrogol 400	160312A	2
gepepharm/Sanacorp	Lauromacrogol 400	182743	1
gepepharm/Sanacorp	Lauromacrogol 400	182744	1
gepepharm/Sanacorp	Lauromacrogol 400	1905420	1
gepepharm/Sanacorp	Lauromacrogol 400	19054203	3
Gepepharm/Sanacorp	Lauromacrogol 400	19054203	1
gepepharm/Sanacorp	Lauromacrogol 400	19054203A	3
Gepepharm/Sanacorp	Lauromacrogol 400	19054203A	2
gepepharm/Sanacorp	Lauromacrogol 400	19064501	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
gepepharm/Sanacorp	Lauromacrogol 400	19064501A	1
gepepharm/Sanacorp	Lauromacrogol 400	19064601	1
gepepharm/Sanacorp	Lauromacrogol 400	20001966001	4
Gepepharm/Sanacorp	Lauromacrogol 400	20001966001	1
Gepepharm/Spangro	Lauromacrogol 400	160312A	1
GePePharm/Spangro	Lauromacrogol 400	160312A	1
gepepharm/Spangro	Lauromacrogol 400	16031A	1
Gepepharm/V.d.L.	Lauromacrogol 400	130109	1
Gepepharm/VDL	Lauromacrogol 400	110408	3
Gepepharm/VDL	Lauromacrogol 400	130109	6
gepepharm	Lauromacrogol 400	110408	7
Gepepharm	Lauromacrogol 400	110408	6
gepepharm	Lauromacrogol 400	13-0108	2
gepepharm	Lauromacrogol 400	130109	59
Gepepharm	Lauromacrogol 400	130109	16
gepepharm	Lauromacrogol 400	13044009	1
Gepepharm	Lauromacrogol 400	13051502	1
gepepharm	Lauromacrogol 400	140911	45
Gepepharm	Lauromacrogol 400	140911	32
GEPEPHARM	Lauromacrogol 400	140911	5
GEPEPHARM	Lauromacrogol 400	14-1414	1
Gepepharm	Lauromacrogol 400	16-029	1
gepepharm	Lauromacrogol 400	16-0290	4
Gepepharm	Lauromacrogol 400	160290	1
Gepepharm	Lauromacrogol 400	16-0290	1
gepepharm	Lauromacrogol 400	1603012	1
gepepharm	Lauromacrogol 400	1603102	1
gepepharm	Lauromacrogol 400	160312	63
Gepepharm	Lauromacrogol 400	160312	29
gepepharm	Lauromacrogol 400	1603120A	1
gepepharm	Lauromacrogol 400	160312A	42
Gepepharm	Lauromacrogol 400	160312A	24
Gepepharm	Lauromacrogol 400	16031705	1
gepepharm	Lauromacrogol 400	160512	1
Gepepharm	Lauromacrogol 400	17061708	1
Gepepharm	Lauromacrogol 400	17111403	1
gepepharm	Lauromacrogol 400	18054203A	1
Gepepharm	Lauromacrogol 400	182743	1
gepepharm	Lauromacrogol 400	19054203	36
Gepepharm	Lauromacrogol 400	19054203	20
gepepharm	Lauromacrogol 400	19054203A	4
Gepepharm	Lauromacrogol 400	19054203A	2
Gepepharm	Lauromacrogol 400	1905420X	1
GEPEPHARM	Lauromacrogol 400	190542G3	1
gepepharm	Lauromacrogol 400	19064501	14
Gepepharm	Lauromacrogol 400	19064501	5
gepepharm	Lauromacrogol 400	19064501A	5
Gepepharm	Lauromacrogol 400	19064501A	4
Gepepharm	Lauromacrogol 400	19101201	1
Gepepharm	Lauromacrogol 400	19121203	1
Gepepharm	Lauromacrogol 400	19295701	1
Gepepharm	Lauromacrogol 400	19G09-B02-072831	1
gepepharm	Lauromacrogol 400	20000841	1
gepepharm	Lauromacrogol 400	200019660001	1
gepepharm	Lauromacrogol 400	20001966001	7
Gepepharm	Lauromacrogol 400	20001966001	5
Gepepharm	Lauromacrogol 400	2002312384	1
Gepepharm	Lauromacrogol 400	21071712	1
Gepepharm	Lauromacrogol 400	25061502	1
Gepepharm	Lauromacrogol 400	27111202	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gepepharm	Lauromacrogol 400	28101704	1
Gepepharm	Lauromacrogol 400	30031303	1
Gepepharm	Lauromacrogol 400	4111M-02384	1
Gepepharm	Lauromacrogol 400	6111203	1
gepepharm	Lauromacrogol 400	802-0728401	1
Gepepharm	Lauromacrogol 400	9041702	1
gepepharm® GmbH	Lauromacrogol 400	110408	1
Gepepharma Gmbh/Phoenix	Lauromacrogol 400	140911	3
Gepepharma Gmbh/Phoenix	Lauromacrogol 400	160312	2
Gepepharma Gmbh	Lauromacrogol 400	130109	1
gepepharma/Alliance	Lauromacrogol 400	160312	1
Gepepharma/Gehe	Lauromacrogol 400	160312	2
Gepepharma/Krieger	Lauromacrogol 400	19064501	1
Gepepharma/Phoenix	Lauromacrogol 400	19064501A	1
gepepharma/Phönix	Lauromacrogol 400	130109	1
Gepepharma/Phönix	Lauromacrogol 400	16-2090	1
Gepepharma/Sanacorp	Lauromacrogol 400	130109	1
Gepepharma	Lauromacrogol 400	160312	3
gepepharma	Lauromacrogol 400	19054203A	1
gepepharmGmbH/ Max Jenne	Lauromacrogol 400	19054203	2
GepepharmGmbH/AEP	Lauromacrogol 400	160312A	1
GepepharmGmbH/AEP	Lauromacrogol 400	19054203	1
gepepharmGmbh	Lauromacrogol 400	110408	1
gepepharmGmbH	Lauromacrogol 400	160312A	1
gepeppharm / Phönix	Lauromacrogol 400	19054203A	1
gepeppharm GmbH	Lauromacrogol 400	19054203	1
gepeppharm	Lauromacrogol 400	19054203	1
geppepharm GmbH AEP	Lauromacrogol 400	19054203	1
geppepharm GmbH AEP	Lauromacrogol 400	19054203A	1
geprpharm GmbH	Lauromacrogol 400	140911	1
geprpharmGmbh	Lauromacrogol 400	160312A	1
GP/Noweda	Lauromacrogol 400	182744	1
GP/Noweda	Lauromacrogol 400	19054203A	4
GP/Phoenix	Lauromacrogol 400	160312	1
GUMO	Lauromacrogol 400	19054203	1
GUMO	Lauromacrogol 400	191310003	1
GUMO	Lauromacrogol 400	21000678005	1
Gutenberg-Apotheke	Macrogolglycerol hydroxystea...	13072008	1
Hageda	Lauromacrogol 400	19064501	1
Hänseler	Lauromacrogol 400		1
Hedinger Phönix	Lauromacrogol 400	160312A	1
Hedinger/ Sanacorp	Lauromacrogol 400	140911	1
Hedinger/Gehe	Lauromacrogol 400	13G02-N03	1
Hedinger	Macrogolglycerol hydroxystea...	13333702	1
Hedinger	Macrogol 4 lauryl ether	15041704	1
hedinger	Macrogol 4 lauryl ether	734206909-BIP	1
Henry Lamotte/Sanacorp	Lauromacrogol 400	14H04-B03-301517	1
Heyl/Gehe	Lauromacrogol 400	18175508	1
Ichthyol Gesellschaft	Lauromacrogol 400	15G10-B05-315343	1
Ichthyol/Gehe	Macrogol 4 lauryl ether	316400031	1
Ichthyol	Lauromacrogol 400	110408	4
Ichthyol-Gesellschaft	Lauromacrogol 400	160312	1
Ichtyol-Gesellschaft/No...	Lauromacrogol 400	17250908	1
InfectoPharm/Gehe	Lauromacrogol 400	18175513	1
INTR/Phönix	Macrogol 4 lauryl ether	16100205	1
Jenne / Gepepharm	Lauromacrogol 400	19054203	1
Jenne	Macrogol 4 lauryl ether	13136202	1
Jenne	Lauromacrogol 400	18B26-B06-346398	1
Jenne	Lauromacrogol 400	19054203A	2
Jenne	Lauromacrogol 400	19064501	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Kehr/Chemische Fabrik, ...	Lauromacrogol 400	19054203	1
Kehr/Fargon	Lauromacrogol 400	18B26-B06-347341	1
Kehr/gepepharm	Lauromacrogol 400	140911	1
Kehr	Macrogol 4 lauryl ether	16100207	2
Kehr	Macrogolglycerol hydroxystea...	16349304	1
Kehr	Macrogol 4 lauryl ether	17028303	1
Kehr	Lauromacrogol 400	17046502	2
Kehr	Lauromacrogol 400	17250904	2
Kehr	Lauromacrogol 400	17250909	1
Kögl	Lauromacrogol 400	1700029	5
Kögl	Lauromacrogol 400	17700029	1
Kögl	Lauromacrogol 400	177906162916	1
Kögl	Lauromacrogol 400	177906163716	2
Kögl	Lauromacrogol 400	1800519	5
Kögl	Lauromacrogol 400	1802732	6
kögl	Lauromacrogol 400	1908852	1
Kögl	Lauromacrogol 400	381311161917	5
Kögl	Lauromacrogol 400	38131161917	1
Krieger/ Gepepharm	Lauromacrogol 400	140911	2
Krieger/ Gepepharm	Lauromacrogol 400	160312A	2
L12	Lauromacrogol 400	17A23-B01-330983	1
L12	Lauromacrogol 400	17A23-B01-332868	1
L12	Lauromacrogol 400	17A23-B01-332869	1
L12	Lauromacrogol 400	17H21-B07-341795	1
L12	Macrogol 4 lauryl ether	18B26-B06-347341	1
L30	Macrogol 4 lauryl ether	18B26-B06	1
L30	Macrogol 4 lauryl ether	18B26-B06-346396	1
L30	Lauromacrogol 400	18D30-B09	1
Laborcemie Apolda/PHOENIX	Lauromacrogol 400	160312	1
Lamotte	Lauromacrogol 400	15192209	1
Löwen City-Apotheke Bar...	Lauromacrogol 400	2042015	1
Nowed	Lauromacrogol 400	19054203	1
Noweda 10.07.2015	Macrogol 4 lauryl ether	1014400032	1
Noweda Fagro 20.04.18 E...	Lauromacrogol 400	18A18-B98-344798	1
Noweda Taucha	Lauromacrogol 400	21-0820	4
Noweda/ Caesar&Lorenz G...	Lauromacrogol 400	19131009	1
Noweda/ Caesar&Lorenz G...	Lauromacrogol 400	19131004	1
Noweda/ Gepepharm	Lauromacrogol 400	19054203	1
noweda/anzag	Lauromacrogol 400	19054203	1
Noweda/Gegepharm	Lauromacrogol 400	19064501	2
Noweda/gegepharm	Lauromacrogol 400	19064501A	1
Noweda/Gepepharm GmbH	Lauromacrogol 400	160312	1
Noweda/Gepepharm GmbH	Lauromacrogol 400	160312A	1
Noweda/gepepharm	Lauromacrogol 400	130109	1
Noweda/gepepharm	Lauromacrogol 400	140911	1
Noweda/Gepepharm	Lauromacrogol 400	160312	1
Noweda/Gepepharm	Lauromacrogol 400	182743	1
noweda/Gepepharm	Lauromacrogol 400	19054203	1
Noweda/gepepharm	Lauromacrogol 400	19054203	1
Noweda/Schärer 30,04,21...	Lauromacrogol 400	20001966001	1
Noweda/Spinnrad	Macrogol 4 lauryl ether	218400031	1
Noweda	Macrogol 4 lauryl ether	1111400032	1
Noweda	Macrogolglycerol hydroxystea...	11C18-N08	1
Noweda	Macrogol 4 lauryl ether	121400031	2
Noweda	Macrogol 4 lauryl ether	123400033	1
Noweda	Lauromacrogol 400	13B13-N01	1
Noweda	Macrogolglycerol hydroxystea...	13d23-N03	1
Noweda	Lauromacrogol 400	15A26-B02-303625	1
Noweda	Lauromacrogol 400	160312	5
Noweda	Lauromacrogol 400	160312A	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Macrogolglycerol hydroxystea…	16247402	1
Noweda	Macrogolglycerol hydroxystea…	16247407	1
Noweda	Macrogolglycerol hydroxystea…	16349310	1
Noweda	Lauromacrogol 400	16E18-B04-326089	1
Noweda	Lauromacrogol 400	16E18-B04-328699	1
Noweda	Lauromacrogol 400	17-0845	1
Noweda	Lauromacrogol 400	1710026-01	2
Noweda	Lauromacrogol 400	17250908	1
Noweda	Macrogolglycerol hydroxystea…	17257003	2
Noweda	Macrogolglycerol hydroxystea…	17257004	1
Noweda	Lauromacrogol 400	17A23-B01_332867	1
Noweda	Macrogolglycerol hydroxystea…	17D03-B04	1
noweda	Macrogol 4 lauryl ether	17H21-B07-339505	1
Noweda	Lauromacrogol 400	17H21-B07-341795	1
Noweda	Lauromacrogol 400	18175513	1
Noweda	Macrogolglycerol hydroxystea…	18204501	3
Noweda	Macrogolglycerol hydroxystea…	18204507	1
Noweda	Macrogolglycerol hydroxystea…	18278403	2
Noweda	Macrogolglycerol hydroxystea…	18278404	1
Noweda	Macrogol 4 lauryl ether	18B26-B06-347341	1
Noweda	Macrogol 4 lauryl ether	18D30-B09-350640	1
Noweda	Lauromacrogol 400	18J08-B03-355980	1
Noweda	Macrogolglycerol hydroxystea…	19040303	2
Noweda	Lauromacrogol 400	19054203	6
Noweda	Lauromacrogol 400	1907010-01	1
Noweda	Lauromacrogol 400	19131003	1
Noweda	Lauromacrogol 400	1915345	1
Noweda	Lauromacrogol 400	192957005	1
Noweda	Macrogolglycerol hydroxystea…	19D30-B03-362727	1
Noweda	Macrogol 4 lauryl ether	19G09-B02-072831	2
Noweda	Lauromacrogol 400	20001966001	5
Noweda	Macrogolglycerol hydroxystea…	20002214003	1
Noweda	Macrogolglycerol hydroxystea…	20002214004	1
Noweda	Lauromacrogol 400	20002697002	1
Noweda	Macrogolglycerol hydroxystea…	21A05-F01	1
Noweda	Macrogolglycerol hydroxystea…	21A29-F02-376809	1
Noweda	Lauromacrogol 400	22000433003	1
Noweda	Macrogol 4 lauryl ether	316400031	1
Noweda	Macrogol 4 lauryl ether	413400031	2
Noweda	Macrogol 4 lauryl ether	512400031	1
Noweda	Macrogol 4 lauryl ether	818400032	2
Pharmachem/ Phönix	Lauromacrogol 400	16E18-B04-322722	1
Phoenix (gepepharm)	Lauromacrogol 400	110408	1
Phoenix/ gepepharm	Lauromacrogol 400	20001966001	1
Phoenix/gepepharm	Lauromacrogol 400	110408	1
Phoenix/gepepharm	Lauromacrogol 400	140911	3
Phoenix/Gepepharm	Lauromacrogol 400	160312	1
Phoenix/gepepharm	Lauromacrogol 400	19054203	2
Phoenix/Gepepharm	Lauromacrogol 400	19064501	2
phoenix/noveda	Lauromacrogol 400	140911	3
Phoenix	Lauromacrogol 400	110408	1
Phoenix	Lauromacrogol 400	13-0108	1
Phoenix	Lauromacrogol 400	130109	2
Phoenix	Lauromacrogol 400	140911	2
Phoenix	Lauromacrogol 400	160312A	10
Phoenix	Lauromacrogol 400	16102908	1
Phoenix	Lauromacrogol 400	16102914	1
Phoenix	Lauromacrogol 400	17046401	1
Phoenix	Lauromacrogol 400	17046502	1
Phoenix	Macrogolglycerol hydroxystea…	17257003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Lauromacrogol 400	1808025-01	1
Phoenix	Macrogol 4 lauryl ether	18215501	1
Phoenix	Macrogolglycerol hydroxystea…	18278410	2
Phoenix	Lauromacrogol 400	1901029-01	1
Phoenix	Lauromacrogol 400	19054203	2
Phoenix	Lauromacrogol 400	19064501	3
Phoenix	Lauromacrogol 400	19064501A	1
Phoenix	Lauromacrogol 400	191471912	1
Phoenix	Macrogol 4 lauryl ether	19609-B02-07832	1
Phoenix	Lauromacrogol 400	20001966001	2
Phoenix	Lauromacrogol 400	200081501	1
Phoenix	Macrogolglycerol hydroxystea…	200572306	1
Phoenix	Macrogolglycerol hydroxystea…	20b03-f13-368511	1
Phoenix	Macrogol 4 lauryl ether	218400031	2
Phoenix	Lauromacrogol 400	3031	1
Phoenix	Macrogolglycerol hydroxystea…	3069	1
Phoenix	Lauromacrogol 400	3205	1
Phoenix	Macrogolglycerol hydroxystea…	3400	1
Phönix /fargon	Lauromacrogol 400	18D30-B09-350640	1
Phönix 31.01.2014	Macrogolglycerol hydroxystea…	13D23N03	1
Phönix Gotha	Lauromacrogol 400	12092516	1
Phönix Gotha	Lauromacrogol 400	130109	3
Phönix Gotha	Lauromacrogol 400	13-0599	1
Phönix Gotha	Lauromacrogol 400	13B13-N01	1
Phönix Gotha	Lauromacrogol 400	13G02-N030461/1210	1
Phönix Gotha	Lauromacrogol 400	140911	1
Phönix Gotha	Macrogolglycerol hydroxystea…	282268E0	1
Phönix/ GepePharm	Lauromacrogol 400	19054203	1
Phönix/gepepharm GmbH	Lauromacrogol 400	160312A	4
Phönix/gepepharm	Lauromacrogol 400	130109	1
Phönix/Gepepharm	Lauromacrogol 400	160312A	1
Phönix/Gepepharm	Lauromacrogol 400	19064501	1
Phönix/Spinnrad	Macrogol 4 lauryl ether	218400031	1
Phönix	Macrogolglycerol hydroxystea…	11161504	1
Phönix	Lauromacrogol 400	12E03-N04	1
Phönix	Lauromacrogol 400	13-0108130109	1
Phönix	Lauromacrogol 400	130109	1
Phönix	Lauromacrogol 400	13B13-N01	1
Phönix	Lauromacrogol 400	13K18-B30-28816	1
Phönix	Lauromacrogol 400	140911	1
phönix	Macrogolglycerol hydroxystea…	14196805	1
Phönix	Macrogolglycerol hydroxystea…	14283813	1
phönix	Macrogolglycerol hydroxystea…	15378302	1
phönix	Lauromacrogol 400	15g10b05314366	1
Phönix	Lauromacrogol 400	160312	1
Phönix	Lauromacrogol 400	160312A	4
Phönix	Lauromacrogol 400	170026-01	1
PHÖNIX	Lauromacrogol 400	17046411	2
phönix	Lauromacrogol 400	17a23-b01-330983	1
Phönix	Macrogol 4 lauryl ether	17H21-B07-339506	1
Phönix	Lauromacrogol 400	1801043-01	2
Phönix	Macrogol 4 lauryl ether	18040101	1
Phönix	Macrogolglycerol hydroxystea…	18204507	1
Phönix	Lauromacrogol 400	18A18-B98-344797	1
Phönix	Lauromacrogol 400	18A18-B98-344798	2
Phönix	Macrogolglycerol hydroxystea…	18G13-B05-355855	1
Phönix	Lauromacrogol 400	18j08-b03-355980	1
phönix	Lauromacrogol 400	19054203	1
Phönix	Lauromacrogol 400	19054203	1
Phönix	Lauromacrogol 400	19054203A	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
PHÖNIX	Lauromacrogol 400	19054203A	1
Phönix	Lauromacrogol 400	19064501	1
Phönix	Macrogolglycerol hydroxystea...	19D30-B03-362727	1
Phönix	Lauromacrogol 400	20001966001	2
Phönix	Lauromacrogol 400	20004484003	1
Phönix	Macrogolglycerol hydroxystea...	20B03-F13-368511	1
Phönix	Lauromacrogol 400	20D20-T12-076662	1
Phönix	Macrogolglycerol hydroxystea...	21000060003	1
PHÖNIX	Macrogol 4 lauryl ether	21000436	1
Phönix	Macrogolglycerol hydroxystea...	21002749003	1
Phönix	Macrogolglycerol hydroxystea...	54764324U0	1
Phönix	Macrogol 4 lauryl ether	818400032	1
PKH Halle/AHD	Lauromacrogol 400	160312A	1
Raben-Apotheke Mildenau	Macrogol 4 lauryl ether	314400031	1
Reichelt/Phönix	Lauromacrogol 400	17A23-Bo1-330983	1
Sanacoro W.E:01.03.18 ...	Lauromacrogol 400	17A23-b01-330983	1
Sanacorp /Fargron	Lauromacrogol 400	17A23-B01-330983	1
Sanacorp, 21.03.17, 9,45EUR	Macrogol 4 lauryl ether	16100205	1
Sanacorp/ gepepahrm GmbH	Lauromacrogol 400	160312A	5
SANACORP/ HEDINGER	Lauromacrogol 400	18175504	1
Sanacorp/ Spinnrad	Macrogol 4 lauryl ether	218400031	2
Sanacorp/ Spinnrad	Macrogol 4 lauryl ether	818400032	1
Sanacorp/Fischar	Macrogolglycerol hydroxystea...	16045403	1
Sanacorp/gepepharm	Lauromacrogol 400	19054203	6
Sanacorp/Spinnrad	Macrogol 4 lauryl ether	818400032	2
Sanacorp	Lauromacrogol 400		1
Sanacorp	Macrogol 4 lauryl ether	1013400032	1
Sanacorp	Macrogol 4 lauryl ether	1014400032	1
Sanacorp	Macrogol 4 lauryl ether	1019400031	2
Sanacorp	Macrogol 4 lauryl ether	12180204	1
Sanacorp	Macrogolglycerol hydroxystea...	12L06-N02	2
Sanacorp	Lauromacrogol 400	130108	1
Sanacorp	Lauromacrogol 400	130109	3
Sanacorp	Macrogolglycerol hydroxystea...	13072004	1
Sanacorp	Lauromacrogol 400	13095802	1
Sanacorp	Lauromacrogol 400	13340710	1
sanacorp	Macrogol 4 lauryl ether	14054405	1
Sanacorp	Macrogolglycerol hydroxystea...	14196805	1
Sanacorp	Macrogolglycerol hydroxystea...	1423805	1
Sanacorp	Macrogolglycerol hydroxystea...	14B14B06	1
Sanacorp	Macrogolglycerol hydroxystea...	15378309	1
Sanacorp	Lauromacrogol 400	160290	1
Sanacorp	Lauromacrogol 400	160312	1
Sanacorp	Lauromacrogol 400	160312A	6
Sanacorp	Macrogolglycerol hydroxystea...	16247405	1
Sanacorp	Macrogol 4 lauryl ether	17028301	1
Sanacorp	Macrogol 4 lauryl ether	17028303	1
Sanacorp	Macrogol 4 lauryl ether	1710026-01	1
Sanacorp	Lauromacrogol 400	17250913	1
Sanacorp	Macrogol 4 lauryl ether	17H21B07339504	1
Sanacorp	Macrogolglycerol hydroxystea...	18278406	1
Sanacorp	Macrogol 4 lauryl ether	18J08-B03	3
Sanacorp	Lauromacrogol 400	19054203	1
Sanacorp	Lauromacrogol 400	19131006	2
Sanacorp	Lauromacrogol 400	192957005	1
Sanacorp	Lauromacrogol 400	19G09-B02	2
Sanacorp	Macrogolglycerol hydroxystea...	2/AKD16	1
Sanacorp	Macrogolglycerol hydroxystea...	21000060003	1
Sanacorp	Lauromacrogol 400	21000678011	1
Sanacorp	Macrogol 4 lauryl ether	417400001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Schäfer & Schläpfer AG/...	Lauromacrogol 400	19064501A	1
Schärer & Schläper	Lauromacrogol 400	19064501	1
Schärer & Schläpfer AG/...	Lauromacrogol 400	20001966001	2
Schärer & Schläpfer AG/...	Lauromacrogol 400	20001966001	2
Schärer & Schläpfer AG/...	Lauromacrogol 400	15A26-02	1
Schärer & Schläpfer AG/...	Lauromacrogol 400	15A26-B02	1
Schärer & Schläpfer AG/...	Lauromacrogol 400	16E18-B04	1
Schärer & Schläpfer AG/...	Lauromacrogol 400	20001966001	1
Schärer & Schläpfer AG	Lauromacrogol 400	16E18-B04-324095	1
Schärer & Schläpfer AG	Lauromacrogol 400	19054203A	1
Schärer & Schläpfer AG	Lauromacrogol 400	19064501	1
Schärer & Schläpfer AG	Lauromacrogol 400	19064501A	2
Schärer & Schläpfer AG	Lauromacrogol 400	20001966001	2
Schärer & Schläpfer/Pho...	Lauromacrogol 400	19-1060	1
Schärer & Schläpfer	Lauromacrogol 400	19054203	2
Schärer & Schläpfer	Lauromacrogol 400	19064501A	2
Scharer &Schlapfer AG-DE	Lauromacrogol 400	20020-T12-076663	1
Schärer& Schläper/AHD	Lauromacrogol 400	19054203A	1
Schärer& Schläpfer	Lauromacrogol 400	19064501A	1
Schärer&Schläpfer AG/ G...	Lauromacrogol 400	19054203	1
Schärer&Schläpfer AG/ P...	Lauromacrogol 400	19054203A	2
Schärer&Schläpfer AG/ P...	Lauromacrogol 400	19064501	1
Schärer&Schläpfer AG/Ge...	Lauromacrogol 400	19064501	1
Schärer&Schläpfer AG/Ph...	Lauromacrogol 400	13B13-N01	1
Schärer&Schläpfer AG	Lauromacrogol 400	19054203	1
Schärer&Schläpfer AG	Lauromacrogol 400	19064501A	1
Schärer&Schläpfer AG	Lauromacrogol 400	20001966001	4
Schärer&Schläpfer/Anzag	Lauromacrogol 400	19054203	1
Schärer&Schläpfer/Phönix	Lauromacrogol 400		1
Schärer&Schläpfer/Sanac...	Lauromacrogol 400	19064501	1
Schärer&Schläpfer/Sanac...	Lauromacrogol 400	20001966001	1
Schärer&Schlapfer	Macrogol 4 lauryl ether	14E06-B05-295979	1
Schärer&Schläpfer	Lauromacrogol 400	19054203	1
Schärer&Schläpfer	Lauromacrogol 400	19064501	1
Schärer&Schläpfer	Lauromacrogol 400	19064501A	1
Schärer&SchläpferAG/ AHD	Lauromacrogol 400	19054203	1
Schärer&Scläpfer Ag/Gehe	Lauromacrogol 400	20001966001	1
Schärer/Fiebig 25.06.2021	Lauromacrogol 400	20001966001	1
Schärer/Fiebig	Lauromacrogol 400	20001966001	4
Schärer/Phönix	Lauromacrogol 400	19054203	1
Schärer/Schläpfer /Phö...	Lauromacrogol 400	19054203	1
siehe Protokoll	Macrogolglycerol hydroxystea...	15378302	1
Sinnrad GmbH,Bad Seegeb...	Macrogol 4 lauryl ether	316400031	1
Soinnrad	Macrogol 4 lauryl ether	11012014B	1
Spangro/gepepharm GmbH	Lauromacrogol 400	160312	1
Spangropharm	Lauromacrogol 400	110408	1
Spangropharm	Lauromacrogol 400	160312	1
Spangropharm	Lauromacrogol 400	19054203	1
Spinnnrad	Macrogol 4 lauryl ether	316400031	1
Spinnra/ Noweda	Macrogol 4 lauryl ether	417400031	1
Spinnrad / Alliance HC	Macrogol 4 lauryl ether	314400031	1
Spinnrad / Anzag	Macrogol 4 lauryl ether	218400031	1
Spinnrad / Jenne	Macrogol 4 lauryl ether	12140031	1
Spinnrad / Noweda	Macrogol 4 lauryl ether	1014400032	1
Spinnrad / Noweda	Macrogol 4 lauryl ether	417400031	1
Spinnrad / Noweda	Macrogol 4 lauryl ether	512400031	1
Spinnrad / Phönix 17.01...	Macrogol 4 lauryl ether	818400032	1
Spinnrad / Phönix	Macrogol 4 lauryl ether	2240003	1
Spinnrad / Sanacorp 13....	Macrogol 4 lauryl ether	218400031	1
Spinnrad- Gehe	Macrogol 4 lauryl ether	218400031	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Spinnrad GmbH / Allianc...	Macrogol 4 lauryl ether	218400031	1
Spinnrad GmbH / Noweda	Macrogol 4 lauryl ether	218400031	1
Spinnrad GmbH / Noweda	Macrogol 4 lauryl ether	818400032	1
Spinnrad GmbH / Phönix	Macrogol 4 lauryl ether	413400031	1
Spinnrad GmbH	Macrogol 4 lauryl ether	1013400032	1
Spinnrad GmbH	Macrogol 4 lauryl ether	1014400032	2
Spinnrad GmbH	Macrogol 4 lauryl ether	1111400032	1
Spinnrad GmbH	Macrogol 4 lauryl ether	12124000321	1
Spinnrad GmbH	Macrogol 4 lauryl ether	218400031	1
Spinnrad GmbH	Macrogol 4 lauryl ether	2240003	1
Spinnrad GmbH	Macrogol 4 lauryl ether	314400031	1
Spinnrad GmbH	Macrogol 4 lauryl ether	316400031	1
Spinnrad GmbH	Macrogol 4 lauryl ether	417400031	2
Spinnrad GmbH	Macrogol 4 lauryl ether	715400031	2
Spinnrad/ Gehe	Macrogol 4 lauryl ether	821400032	1
Spinnrad/ Noweda	Macrogol 4 lauryl ether	1019400031	1
Spinnrad/ Noweda	Macrogol 4 lauryl ether	715400031	1
Spinnrad/ Phönix	Macrogol 4 lauryl ether	417400031	1
Spinnrad/ Phönix	Macrogol 4 lauryl ether	41740031	1
Spinnrad/ Sanacorp	Macrogol 4 lauryl ether	101900031	1
Spinnrad/AHD	Macrogol 4 lauryl ether	818400032	1
Spinnrad/AHD	Macrogol 4 lauryl ether	821400032	1
Spinnrad/Anzag	Macrogol 4 lauryl ether	12124000321	2
Spinnrad/G	Macrogol 4 lauryl ether	417400031	1
Spinnrad/Gehe/08.12.20	Macrogol 4 lauryl ether	1019400031	1
Spinnrad/Gehe/10.08.2020	Macrogol 4 lauryl ether	1019400031	1
Spinnrad/Gehe	Macrogol 4 lauryl ether	1014400032	1
Spinnrad/Gehe	Macrogol 4 lauryl ether	218400031	2
Spinnrad/Gehe	Macrogol 4 lauryl ether	417400031	1
Spinnrad/Gehe	Macrogol 4 lauryl ether	715400031	1
Spinnrad/GEHE	Macrogol 4 lauryl ether	8188400032	1
Spinnrad/Noweda	Macrogol 4 lauryl ether		1
Spinnrad/Noweda	Macrogol 4 lauryl ether	1014400032	1
spinnrad/Noweda	Macrogol 4 lauryl ether	1019400031	1
Spinnrad/Noweda	Macrogol 4 lauryl ether	1019400031	2
Spinnrad/Noweda	Macrogol 4 lauryl ether	314400031	1
Spinnrad/Noweda	Macrogol 4 lauryl ether	316400031	2
Spinnrad/Noweda	Macrogol 4 lauryl ether	413400031	1
Spinnrad/Noweda	Macrogol 4 lauryl ether	512400031	1
Spinnrad/Noweda	Macrogol 4 lauryl ether	715400031	1
Spinnrad/Noweda	Macrogol 4 lauryl ether	818400032	1
Spinnrad/Phoenix	Macrogol 4 lauryl ether	1014400032	1
Spinnrad/Phoenix	Macrogol 4 lauryl ether	1019400031	2
Spinnrad/Phoenix	Macrogol 4 lauryl ether	218400031	1
Spinnrad/Phoenix	Macrogol 4 lauryl ether	316400031	2
Spinnrad/Phoenix	Macrogol 4 lauryl ether	818400032	1
Spinnrad/Phönix	Macrogol 4 lauryl ether	1019400031	2
Spinnrad/Phönix	Macrogol 4 lauryl ether	218400031	2
Spinnrad/Phönix	Macrogol 4 lauryl ether	413400031	1
Spinnrad/Phönix	Macrogol 4 lauryl ether	417400031	2
Spinnrad/Phönix	Macrogol 4 lauryl ether	818100032	1
Spinnrad/Phönix	Macrogol 4 lauryl ether	818400032	2
Spinnrad/Sanacorp	Macrogol 4 lauryl ether	1014400032	1
Spinnrad/Sanacorp	Macrogol 4 lauryl ether	1019400031	1
Spinnrad/Sanacorp	Macrogol 4 lauryl ether	218400031	2
Spinnrad/Sanacorp	Macrogol 4 lauryl ether	314400031	2
Spinnrad/Sanacorp	Macrogol 4 lauryl ether	715400031	2
Spinnrad/Spangro	Macrogol 4 lauryl ether	818400032	1
Spinnrad	Macrogol 4 lauryl ether	1014400032	3
Spinnrad	Macrogol 4 lauryl ether	101440032	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
spinnrad	Macrogol 4 lauryl ether	1019400031	1
Spinnrad	Macrogol 4 lauryl ether	1019400031	5
Spinnrad	Macrogol 4 lauryl ether	1111400032	2
Spinnrad	Macrogol 4 lauryl ether	111140032	1
Spinnrad	Macrogol 4 lauryl ether	11B11-N151110400032	1
Spinnrad	Macrogol 4 lauryl ether	12124000321	5
spinnrad	Macrogol 4 lauryl ether	1213400033	1
Spinnrad	Macrogol 4 lauryl ether	1213400033	2
Spinnrad	Macrogol 4 lauryl ether	121400031	2
spinnrad	Macrogol 4 lauryl ether	1214000321	1
Spinnrad	Macrogol 4 lauryl ether	13400032	1
spinnrad	Macrogol 4 lauryl ether	16400031	1
Spinnrad	Macrogol 4 lauryl ether	21800031	1
Spinnrad	Macrogol 4 lauryl ether	218400031	9
spinnrad	Macrogol 4 lauryl ether	314400031	1
Spinnrad	Macrogol 4 lauryl ether	314400031	1
Spinnrad	Macrogol 4 lauryl ether	316400031	6
Spinnrad	Macrogol 4 lauryl ether	413400031	4
Spinnrad	Macrogol 4 lauryl ether	417400031	11
Spinnrad	Macrogol 4 lauryl ether	41740031	1
spinnrad	Macrogol 4 lauryl ether	512400031	1
Spinnrad	Macrogol 4 lauryl ether	512400031	2
Spinnrad	Macrogol 4 lauryl ether	71540000311	1
spinnrad	Macrogol 4 lauryl ether	715400031	2
Spinnrad	Macrogol 4 lauryl ether	715400031	6
Spinnrad	Macrogol 4 lauryl ether	725400031	1
Spinnrad	Macrogol 4 lauryl ether	818400032	5
Spinnrad	Macrogol 4 lauryl ether	81840032	1
Spinnrad	Macrogol 4 lauryl ether	821400032	1
spinnrad-Noweda	Macrogol 4 lauryl ether	218400031	1
Stadtapotheke Glauchau	Macrogolglycerol hydroxystea…	19040305	1
Standgefäß Apotheke, Ve…	Lauromacrogol 400	16E18-B04-328582	1
Stumpf/gepepharm	Lauromacrogol 400	110408	1
Taoasis	Lauromacrogol 400	17250901	1
VDL;7.75EUR; 30.09.2015	Macrogol 4 lauryl ether	15041801	1
Wissel	Lauromacrogol 400	14-1414	1

- 289 283 spectra from 1324 *Apo-Ident* customers from a total of 51 846 batches from a further 341 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	878	0	67 621
Type B	0	810	0	110 388
Type C	0	7509	666	289 283

The substance/substance group *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol - hydroxystearate 40* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.3166 %)
Type B	100.0000 % (> 99.9677 %)	100.0000 % (> 99.2593 %)
Type C	100.0000 % (> 99.6875 %)	91.8532 % (> 91.8165 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Polysorbate 60	7.42	14.30
Macrogol 20 glycerol monostearate type…	8.71	22.16
Polysorbate 20	14.15	32.89
Macrogol-2-laurylether	15.19	–
Macrogol 8 stereate type I	16.78	22.80
Polysorbate 80	19.05	28.24
Macrogol ointment	20.00	–
Cetiol® HE	21.49	–
Macrogolglycerol ricinoleate	26.60	28.21
Macrogols 400	44.47	–
Hydrophilic ointment DAB	54.66	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30594	32283	2.84	18.84
30765	30765	0.00	22.39
31025	32283	2.01	19.05
31372	31372	0.00	24.71
31381	31381	0.00	21.12
31583	31381	6.80	21.22
31625	31625	0.00	27.65
31768	31768	0.00	20.93
32283	32283	0.00	22.35
32816	32816	0.00	12.87
32824	32816	8.11	12.67
33216	31381	7.74	19.63
35020	35020	0.00	24.85
35140	31625	3.05	24.58
35141	31381	10.68	20.03
35150	31768	2.00	18.07
35464	35582	3.30	23.02
35582	35582	0.00	18.75
35737	31381	11.78	18.79
36039	36039	0.00	13.14

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Macrogol 8 stereate type I**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30554-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Macrogol 8 stereate type I; Polyaethylenglycol-8-stearat

Special notes

When selecting the *Macrogol 8 stereate type I* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Macrogol 8 stereate type I	7	3	52

Second-stage model

For differentiation of the substance/substance group *Macrogol 8 stereate type I* the following second-stage model is used:

- Submodel 10

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Macrogol 8 stereate type I*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Macrogol 8 stere...	13077501	31165	40	1407187
Caelo	Macrogol 8 stere...	13324506	31453	40	AR-15-FG-001640-01
Caelo	Macrogol 8 stere...	172186	33717	40	20170906*
Caelo	Macrogol 8 stere...	173095	33900	40	20180111*
Caelo	Macrogol 8 stere...	192346	34708	40	20191010*
Caelo	Macrogol 8 stere...	20004032	35278	40	20210205*
Caelo	Macrogol 8 stere...	22001154	36309	40	20220504*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 280 spectra of 7 reference samples from the substance/substance group *Macrogol 8 stereate type I*. These samples are listed above in the *calibration samples* section. The reference samples come from 7 different batches.

- 68 219 spectra from a total of 1406 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 170 spectra of 4 reference samples from the substance/substance group *Macrogol 8 stereate type I*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Macrogol 8 stereate type I	162302	32339	40
Caelo	Macrogol 8 stereate type I	182402	34339	40
Caelo	Macrogol 8 stereate type I	21002410	35838	50
Caelo	Macrogol 8 stereate type I	162302	32701	40

- 111 143 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 201 spectra from 116 *Apo-Ident* customers from 53 batches from the substance/substance group *Macrogol 8 stereate type I*.

- Among them are spectra of independent samples from 52 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Anzag	Macrogol 8 stereate type I	16230202	1
Bombastus	Macrogol 8 stereate type I	16230202	1
Caelo	Macrogol 8 stereate type I	12125404	1
Caelo	Macrogol 8 stereate type I	12E24-N07	1
Caelo	Macrogol 8 stereate type I	12H23-N02	1
Caelo	Macrogol 8 stereate type I	13304501	1
Caelo	Macrogol 8 stereate type I	13324501	2
Caelo	Macrogol 8 stereate type I	13324504	4
Caelo	Macrogol 8 stereate type I	13324506	2
Caelo	Macrogol 8 stereate type I	14074603	2
Caelo	Macrogol 8 stereate type I	15249601	5
Caelo	Macrogol 8 stereate type I	153773	1
Caelo	Macrogol 8 stereate type I	15377301	12
Caelo	Macrogol 8 stereate type I	15377305	5
Caelo	Macrogol 8 stereate type I	16063202	7
Caelo	Macrogol 8 stereate type I	16063205	3
Caelo	Macrogol 8 stereate type I	16230202	7
Caelo	Macrogol 8 stereate type I	1721602	1
Caelo	Macrogol 8 stereate type I	17218602	18
Caelo	Macrogol 8 stereate type I	17309502	4
Caelo	Macrogol 8 stereate type I	17309504	22
Caelo	Macrogol 8 stereate type I	17309504P-180827-6	1
Caelo	Macrogol 8 stereate type I	17309504P-181228-2	1
Caelo	Macrogol 8 stereate type I	17309504P-190308-3	1
Caelo	Macrogol 8 stereate type I	17309504P-190502-2	1
Caelo	Macrogol 8 stereate type I	17309505	1
Caelo	Macrogol 8 stereate type I	18240202	11
Caelo	Macrogol 8 stereate type I	18240202P-190624-7	1
Caelo	Macrogol 8 stereate type I	18240202P-190718-3	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogol 8 stereate type I	18240206	3
Caelo	Macrogol 8 stereate type I	18240206P-190926-5	1
Caelo	Macrogol 8 stereate type I	19234602	7
Caelo	Macrogol 8 stereate type I	19234602P-191115-4	1
Caelo	Macrogol 8 stereate type I	19234602P-191227-3	1
Caelo	Macrogol 8 stereate type I	19234602P-191230-2	1
Caelo	Macrogol 8 stereate type I	19234603	13
Caelo	Macrogol 8 stereate type I	19234603P-200217-7	1
Caelo	Macrogol 8 stereate type I	19234603P-200326-7	1
Caelo	Macrogol 8 stereate type I	19234603P-200709-6	1
Caelo	Macrogol 8 stereate type I	19234603P-200727-4	1
Caelo	Macrogol 8 stereate type I	192908002	7
Caelo	Macrogol 8 stereate type I	20004032002	5
Caelo	Macrogol 8 stereate type I	20004032005	2
Caelo	Macrogol 8 stereate type I	2004032002	1
Caelo	Macrogol 8 stereate type I	T30911	1
Caeol	Macrogol 8 stereate type I	15249601	1
Caesar & Loretz GmbH/An...	Macrogol 8 stereate type I	19234602	1
Caesar & Loretz GmbH/Sa...	Macrogol 8 stereate type I	19234602	1
Caesar & Loretz GmbH	Macrogol 8 stereate type I	17309504	2
Caesar & Loretz GmbH	Macrogol 8 stereate type I	19234603	2
Caesar & Loretz GmbH	Macrogol 8 stereate type I	192908002	3
Caesar & Loretz GmbH	Macrogol 8 stereate type I	20004032002	1
Caesar & Loretz GmbH	Macrogol 8 stereate type I	20004032005	2
Caesar & Loretz GmbH	Macrogol 8 stereate type I	22001154004	1
Caesar & Loretz Hilden/...	Macrogol 8 stereate type I	19234602	1
Fagron	Macrogol 8 stereate type I	1115M-03130	1
Fagron	Macrogol 8 stereate type I	11K04-N06	1
Fagron	Macrogol 8 stereate type I	12E24-N07	1
Fagron	Macrogol 8 stereate type I	13H08-N04	1
Fagron	Macrogol 8 stereate type I	14A17-B08-290544	1
Fagron	Macrogol 8 stereate type I	14H04-B01-298920	1
Fagron	Macrogol 8 stereate type I	1515Q-03130	1
Fagron	Macrogol 8 stereate type I	15D24-B99-307080	1
Fagron	Macrogol 8 stereate type I	T30911	1
Fagron	Macrogol 8 stereate type I	T32431	1
Gehe	Macrogol 8 stereate type I	15377301	1
Gehe	Macrogol 8 stereate type I	16063202	1
Kehr	Macrogol 8 stereate type I	17309504	1
Noweda	Macrogol 8 stereate type I	17309504	1
Noweda	Macrogol 8 stereate type I	18240202	1
Phoenix	Macrogol 8 stereate type I	17309504	1
Phönix	Macrogol 8 stereate type I	13324501	1
sana	Macrogol 8 stereate type I	13077505	1
Sanacorp	Macrogol 8 stereate type I	15D24-B99-307080	1
Sanacorp	Macrogol 8 stereate type I	17309504	1

- 297 257 spectra from 1324 *Apo-Ident* customers from a total of 52 934 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Macrogol 8 stereate type I* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

purpose, all relevant spectra of the various substances were compared with *Macrogol 8 stereate type I* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	280	0	68 219
Type B	0	167	3	111 143
Type C	0	196	5	297 257

The substance/substance group *Macrogol 8 stereate type I* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.8571 %)
Type B	100.0000 % (> 99.9678 %)	98.2353 % (> 96.4706 %)
Type C	100.0000 % (> 99.6875 %)	97.5124 % (> 96.0199 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Macrogol 8 stereate type I* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Polysorbate 60	9.42	14.02
Macrogol 20 glycerol monostearate type…	20.56	22.25
Lauromacrogol 400	21.08	24.16
Macrogolglycerol hydroxystearate 40	21.65	37.11
Macrogol ointment	26.20	–
Polysorbate 80	28.20	29.61
Macrogol 4 lauryl ether	28.37	34.62
Polysorbate 20	28.63	56.78
Cetiol® HE	28.64	–
Macrogolglycerol ricinoleate	28.87	41.29
Hydrophilic ointment DAB	37.27	–
Pasta Cordes®	38.82	–
Soft ointment	41.24	–
Macrogol-2-laurylether	43.75	–
Permethrin 25% solution	46.41	–
Macrogols 300	46.64	–
Triglycerol diisostearate	52.47	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Macrogol 8 stereate type I* is separated from critical neighbours in a second-

stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31165	31165	0.00	26.38
31453	31453	0.00	29.56
33717	33717	0.00	32.78
33900	33900	0.00	25.86
34708	34708	0.00	32.03
35278	35278	0.00	29.40
36309	36309	0.00	25.11

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Macrogol ointment**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30465-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Macrogol ointment; Macrogoli unguentum DAC

Special notes

When selecting the *Macrogol ointment* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Macrogol ointment	9	13	95

Second-stage model

For differentiation of the substance/substance group *Macrogol ointment* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Macrogol ointment*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Macrogol ointment	13002502	31004	40	20130108
Caelo	Macrogol ointment	13177801	31247	40	1405327
Caelo	Macrogol ointment	14078601	31442	40	20140321
Caelo	Macrogol ointment	13177801	31486	40	20130709
Caelo	Macrogol ointment	153838	31989	60	20151117*
Caelo	Macrogol ointment	162577	32493	40	20160928*
Caelo	Macrogol ointment	162578	32494	40	20160928*
Caelo	Macrogol ointment	172237	33751	40	20170828*
Caelo	Macrogol ointment	190510	34531	40	20190325*
Caelo	Macrogol ointment	190511	34532	40	20190325*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 420 spectra of 10 reference samples from the substance/substance group *Macrogol ointment*. These samples are listed above in the *calibration samples* section. The reference samples come from 9 different batches.
- 68 079 spectra from a total of 1404 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 530 spectra of 13 reference samples from the substance/substance group *Macrogol ointment*.

- Among them are spectra of independent samples from 13 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Macrogol ointment	182006	34257	40
Caelo	Macrogol ointment	182587	34357	40
Caelo	Macrogol ointment	20001522	34965	40
Caelo	Macrogol ointment	20002367	35109	40
Caelo	Macrogol ointment	21000675	35337	40
Caelo	Macrogol ointment	21000676	35338	40
Caelo	Macrogol ointment	21001140	35339	40
Caelo	Macrogol ointment	21001538	35524	50
Caelo	Macrogol ointment	21003002	35924	40
Caelo	Macrogol ointment	21004043	35925	40
Caelo	Macrogol ointment	22000371	36150	40
Caelo	Macrogol ointment	22001296	36528	40
Caelo	Macrogol ointment	22002036	36529	40

- 110 783 spectra from a total of 2653 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 583 spectra from 255 *Apo-Ident* customers from 99 batches from the substance/substance group *Macrogol ointment*.

- Among them are spectra of independent samples from 95 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Macrogol ointment	18200702	1
Alliance Healthcare	Macrogol ointment	19278701	1
Anzag/	Macrogol ointment	12261402	2
Anzag	Macrogol ointment	12117202	1
apomix	Macrogol ointment	16314502	1
Bahnhof-Apothek/Bahnhof...	Macrogol ointment	3418A-07196	1
Bombastus	Macrogol ointment	13177801	1
Bombastus	Macrogol ointment	17319301	1
Caelo	Macrogol ointment	1012A-02834	1
Caelo	Macrogol ointment	10166302	1
Caelo	Macrogol ointment	11277702	1
Caelo	Macrogol ointment	11727601	1
Caelo	Macrogol ointment	12117202	2
Caelo	Macrogol ointment	12179102	2
Caelo	Macrogol ointment	12261403	2
Caelo	Macrogol ointment	12353501	7
Caelo	Macrogol ointment	12353502	4
Caelo	Macrogol ointment	13002502	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogol ointment	13002505	1
Caelo	Macrogol ointment	13002601	1
Caelo	Macrogol ointment	13002602	4
Caelo	Macrogol ointment	13177701	1
Caelo	Macrogol ointment	13177702	3
Caelo	Macrogol ointment	13177801	6
Caelo	Macrogol ointment	13275302	1
Caelo	Macrogol ointment	13324901	1
Caelo	Macrogol ointment	13324902	2
Caelo	Macrogol ointment	14012201	6
Caelo	Macrogol ointment	14078601	9
Caelo	Macrogol ointment	14078701	1
Caelo	Macrogol ointment	1418E-02834	1
Caelo	Macrogol ointment	14219801	3
Caelo	Macrogol ointment	14219802	4
Caelo	Macrogol ointment	14336301	8
Caelo	Macrogol ointment	14336302	5
Caelo	Macrogol ointment	15170602	5
Caelo	Macrogol ointment	15170701	6
Caelo	Macrogol ointment	151707107	1
Caelo	Macrogol ointment	15383802	4
Caelo	Macrogol ointment	15383902	2
Caelo	Macrogol ointment	16062001	2
Caelo	Macrogol ointment	16062002	2
Caelo	Macrogol ointment	16062003	8
Caelo	Macrogol ointment	16092003	1
Caelo	Macrogol ointment	16186301	18
Caelo	Macrogol ointment	16186302	2
Caelo	Macrogol ointment	16186401	2
Caelo	Macrogol ointment	16257801	6
Caelo	Macrogol ointment	16257802	4
Caelo	Macrogol ointment	16314502	10
Caelo	Macrogol ointment	170619181	1
Caelo	Macrogol ointment	17063901	7
Caelo	Macrogol ointment	171276	1
Caelo	Macrogol ointment	17127601	36
Caelo	Macrogol ointment	17127601/5579	1
Caelo	Macrogol ointment	17319301	10
Caelo	Macrogol ointment	17319302	11
Caelo	Macrogol ointment	1731931	1
Caelo	Macrogol ointment	18051801	1
Caelo	Macrogol ointment	18057501	1
Caelo	Macrogol ointment	18057701	40
Caelo	Macrogol ointment	18057801	9
Caelo	Macrogol ointment	18111706	1
Caelo	Macrogol ointment	18200701	11
Caelo	Macrogol ointment	18200702	12
Caelo	Macrogol ointment	19004701	7
Caelo	Macrogol ointment	19051001	26
Caelo	Macrogol ointment	19051002	4
Caelo	Macrogol ointment	19071305	1
Caelo	Macrogol ointment	1917301	1
Caelo	Macrogol ointment	1917302	2
Caelo	Macrogol ointment	19177301	5
Caelo	Macrogol ointment	19177302	11
Caelo	Macrogol ointment	19278701	23
Caelo	Macrogol ointment	19278802	15
Caelo	Macrogol ointment	200001523001	1
Caelo	Macrogol ointment	20001522001	16
Caelo	Macrogol ointment	20001523001	31

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogol ointment	2000152301	1
Caelo	Macrogol ointment	20003775001	5
Caelo	Macrogol ointment	20003775003	2
Caelo	Macrogol ointment	21000675001	14
Caelo	Macrogol ointment	21000676001	9
Caelo	Macrogol ointment	21001937002	2
Caelo	Macrogol ointment	21001937003	1
Caelo	Macrogol ointment	21003002001	1
Caelo	Macrogol ointment	22051304	1
Caelo	Macrogol ointment	2817E-02834	1
Caelo	Macrogol ointment	29111202	1
Caelo	Macrogol ointment	312E-02834	1
Caelo	Macrogol ointment	3315A-02834	1
Caelo	Macrogol ointment	3516I-02834	1
Caelo	Macrogol ointment	3518M-02834	1
Caelo	Macrogol ointment	4511M-02834	1
Caelo	Macrogol ointment	4617M02834	1
Caelo	Macrogol ointment	4717Q-02834	1
Caelo	Macrogol ointment	6031507	1
Caelo	Macrogol ointment	6091202	1
Caelo	Macrogol ointment	9051001	1
Caeolo/Gehe	Macrogol ointment	1731902	1
Caeolo/Gehe	Macrogol ointment	18200701	1
Caesar & Lorenz GmbH	Macrogol ointment	19051001	1
Caesar & Loretz GmbH / ...	Macrogol ointment	19051001	2
Caesar & Loretz GmbH / ...	Macrogol ointment	18057701	1
Caesar & Loretz GmbH/ A...	Macrogol ointment	20001523001	2
Caesar & Loretz GmbH/Gehe	Macrogol ointment	19051002	1
Caesar & Loretz GmbH/Je...	Macrogol ointment	19051001	2
Caesar & Loretz GmbH/No...	Macrogol ointment	18200701	1
Caesar & Loretz GmbH/No...	Macrogol ointment	19051001	1
Caesar & Loretz GmbH/No...	Macrogol ointment	19278701	1
Caesar & Loretz GmbH	Macrogol ointment	14078601	1
Caesar & Loretz GmbH	Macrogol ointment	14336301	1
Caesar & Loretz GmbH	Macrogol ointment	18200701	1
Caesar & Loretz GmbH	Macrogol ointment	19051001	4
Caesar & Loretz GmbH	Macrogol ointment	19177301	1
Caesar & Loretz GmbH	Macrogol ointment	19177302	2
Caesar & Loretz GmbH	Macrogol ointment	19278701	1
Caesar & Loretz GmbH	Macrogol ointment	1927880	1
Caesar & Loretz GmbH	Macrogol ointment	19278802	1
Caesar & Loretz GmbH	Macrogol ointment	20001522001	3
Caesar & Loretz GmbH	Macrogol ointment	20001523001	5
Caesar & Loretz GmbH	Macrogol ointment	20003775001	2
Caesar & Loretz GmbH	Macrogol ointment	20003775003	3
Caesar & Loretz GmbH	Macrogol ointment	21000675001	1
Caesar & Loretz GmbH	Macrogol ointment	21001937003	3
Caesar & Loretz GmbH	Macrogol ointment	21003002001	2
Caesar & Loretz Hilden	Macrogol ointment	18200702	1
Caesar & Loretz Hilden	Macrogol ointment	19278701	1
Caesar & Loretz	Macrogol ointment	18057701	1
Caesar & Loretz	Macrogol ointment	18057801	1
Caesar&Lorenz	Macrogol ointment	20003775003	1
Cealo/Gehe	Macrogol ointment	17127601	1
Cealo/Gehe	Macrogol ointment	19051001	2
cesar&lorentz/Phönix	Macrogol ointment	11327702	1
Ebert+Jacobi	Macrogol ointment	11277701	1
Euro OTC	Macrogol ointment		1
Euro OTC	Macrogol ointment	16314502	3
Fagron	Macrogol ointment	14012201	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Macrogol ointment	17127601	1
GEHE	Macrogol ointment	16186301	1
GEHE	Macrogol ointment	16314502	1
GEHE	Macrogol ointment	17127601	2
Gehe	Macrogol ointment	18057701	1
Gehe	Macrogol ointment	19278701	1
Gehe	Macrogol ointment	20003775001	1
Jenne / Infectopharm	Macrogol ointment	19051001	3
L12	Macrogol ointment	17127601	1
Noweda	Macrogol ointment	12179102	1
Noweda	Macrogol ointment	19051001	1
Noweda	Macrogol ointment	19278701	1
Noweda	Macrogol ointment	20001523001	1
Phoenix	Macrogol ointment	19051001	1
Phoenix	Macrogol ointment	201001210	1
Sanacorp	Macrogol ointment	13177801	1
Sanacorp	Macrogol ointment	19278802	1

- 296 875 spectra from 1324 *Apo-Ident* customers from a total of 52 891 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Macrogol ointment* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Macrogol ointment* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	420	0	68 079
Type B	0	530	0	110 703
Type C	0	583	0	296 875

The substance/substance group *Macrogol ointment* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.5714 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.8679 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 98.9708 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Macrogol ointment* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Macrogols 400	34.45	–
Macrogols 300	46.75	–
Polysorbate 20	75.45	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Macrogol ointment* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31004	31989	4.88	37.93
31247	31247	0.00	38.51
31442	33751	7.47	27.91
31486	33751	5.44	33.40
31989	31989	0.00	37.73
32493	32493	0.00	34.04
32494	32494	0.00	40.12
33751	33751	0.00	34.27
34531	34531	0.00	41.35
34532	34532	0.00	33.93

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Macrogol-2-laurylether**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31731-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Macrogol-2-laurylether; Dehydol® LS 2

Special notes

When selecting the *Macrogol-2-laurylether* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Macrogol-2-laurylether	2	1	10

Second-stage model

For differentiation of the substance/substance group *Macrogol-2-laurylether* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Macrogol-2-laurylether*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Macrogol-2-laury...	14054304	31731	60	1603434
Caelo	Macrogol-2-laury...	14054309	31867	60	20140225

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 120 spectra of 2 reference samples from the substance/substance group *Macrogol-2-laurylether*. These samples are listed above in the *calibration samples* section. The reference samples come from 2 different batches.
- 68 379 spectra from a total of 1411 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Macrogol-2-laurylether*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Macrogol-2-laurylether	15411908	33273	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 53 spectra from 23 *Apo-Ident* customers from 10 batches from the substance/substance group *Macrogol-2-laurylether*.

- Among them are spectra of independent samples from 10 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Macrogol-2-laurylether	15411902	4
Caelo	Macrogol-2-laurylether	15411903	1
Caelo	Macrogol-2-laurylether	15411904	29
Caelo	Macrogol-2-laurylether	15411910	3
Caelo	Macrogol-2-laurylether	18093301	2
Caelo	Macrogol-2-laurylether	18093302	5
Caelo	Macrogol-2-laurylether	18093303	3
Caelo	Macrogol-2-laurylether	18093304	2
Caelo	Macrogol-2-laurylether	20001352001	1
Caesar & Loretz GmbH	Macrogol-2-laurylether	18093302	1
Phoenix	Macrogol-2-laurylether	18093303	1
Sanacorp	Macrogol-2-laurylether	15411908	1

- 297 405 spectra from 1324 *Apo-Ident* customers from a total of 52 977 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Macrogol-2-laurylether* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Macrogol-2-laurylether* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	120	0	68 379
Type B	0	40	0	111 273
Type C	0	53	0	297 405

The substance/substance group *Macrogol-2-laurylether* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.0000 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6876 %)	100.0000 % (> 88.6792 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Macrogol-2-laurylether* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Macrogol 4 lauryl ether	17.18	–
Polysorbate 60	21.36	–
Macrogol 8 stereate type I	22.35	–
Macrogol 20 glycerol monostearate type…	24.41	–
Cetiol® HE	27.10	–
Polysorbate 80	30.93	–
Polysorbate 20	31.60	–
Lauromacrogol 400	32.03	–
Macrogolglycerol hydroxystearate 40	36.98	–
Macrogolglycerol ricinoleate	37.49	–
Macrogol ointment	38.65	–
Triglycerol diisostearate	41.09	–
Macrogols 400	44.00	–
Hydrophilic ointment DAB	57.60	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Macrogol-2-laurylether* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31731	31731	0.00	21.44
31867	31731	5.06	17.18

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances,

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Macrogolglycerol ricinoleate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`10004582-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Macrogolglycerol ricinoleate; Macrogolglyceroli ricinoleas

Special notes

When selecting the *Macrogolglycerol ricinoleate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Macrogolglycerol ricinoleate	4	4	65

Second-stage model

For differentiation of the substance/substance group *Macrogolglycerol ricinoleate* the following second-stage model is used:

- Submodel 10

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Macrogolglycerol ricinoleate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Macrogolglycerol...	13272708	31368	39	1505503
Caelo	Macrogolglycerol...	161303	32297	40	20160523*
Fagron	Macrogolglycerol...	12E29-N02	30766	60	20120612
Fagron	Macrogolglycerol...	12H08-N01	31015	40	20120827

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 179 spectra of 4 reference samples from the substance/substance group *Macrogolglycerol ricinoleate*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.

- 68 320 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Macrogolglycerol ricinoleate*.

- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Macrogolglycerol ricinoleate	161545	32338	40
Caelo	Macrogolglycerol ricinoleate	172238	33707	40
Caelo	Macrogolglycerol ricinoleate	21003121003	36046	40
Fagron	Macrogolglycerol ricinoleate	20I29-T01-083604	35463	40

- 111 153 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 140 spectra from 86 *Apo-Ident* customers from 65 batches from the substance/substance group *Macrogolglycerol ricinoleate*.

- Among them are spectra of independent samples from 65 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
BASF Chem trade GmbH/Ph...	Macrogolglycerol ricinoleate	13B08-N03	1
Caelo	Macrogolglycerol ricinoleate	14195501	1
Caelo	Macrogolglycerol ricinoleate	15312307	2
Caelo	Macrogolglycerol ricinoleate	16130304	2
Caelo	Macrogolglycerol ricinoleate	16154501	3
Caelo	Macrogolglycerol ricinoleate	16154504	2
Caelo	Macrogolglycerol ricinoleate	17137302	3
Caelo	Macrogolglycerol ricinoleate	17223802	2
Caelo	Macrogolglycerol ricinoleate	17348302	5
Caelo	Macrogolglycerol ricinoleate	17348304	3
Caelo	Macrogolglycerol ricinoleate	18216902	7
Caelo	Macrogolglycerol ricinoleate	18216906	3
Caelo	Macrogolglycerol ricinoleate	18216908	2
Caelo	Macrogolglycerol ricinoleate	19143603	5
Caelo	Macrogolglycerol ricinoleate	19143605	4
Caelo	Macrogolglycerol ricinoleate	19153603	1
Caelo	Macrogolglycerol ricinoleate	192835003	1
Caelo	Macrogolglycerol ricinoleate	192835005	2
Caelo	Macrogolglycerol ricinoleate	192835055	1
Caelo	Macrogolglycerol ricinoleate	20002306001	6
Caelo	Macrogolglycerol ricinoleate	20002306004	3
Caelo	Macrogolglycerol ricinoleate	20004096001	1
Caelo	Macrogolglycerol ricinoleate	21000300001	3
Caelo	Macrogolglycerol ricinoleate	21000300006	1
Caelo	Macrogolglycerol ricinoleate	3017I-01307	1
Caelo	Macrogolglycerol ricinoleate	318A-01307	1
Caelo	Macrogolglycerol ricinoleate	44242575L0	1
Caelo	Macrogolglycerol ricinoleate	6101806	1
Caesar & Loretz GmbH/GEHE	Macrogolglycerol ricinoleate	20004096001	1
Caesar & Loretz GmbH/Sa...	Macrogolglycerol ricinoleate	18216906	1
Caesar & Loretz GmbH	Macrogolglycerol ricinoleate	18216908	1
Caesar & Loretz GmbH	Macrogolglycerol ricinoleate	19143603	2
Caesar & Loretz GmbH	Macrogolglycerol ricinoleate	19143605	1
Caesar & Loretz GmbH	Macrogolglycerol ricinoleate	192835003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Macrogolglycerol ricinoleate	20002306001	1
Caesar & Loretz GmbH	Macrogolglycerol ricinoleate	20002306004	4
Caesar & Loretz GmbH	Macrogolglycerol ricinoleate	20004096001	2
Caesar & Loretz GmbH	Macrogolglycerol ricinoleate	21000300001	1
Caesar & Loretz GmbH	Macrogolglycerol ricinoleate	21003121003	1
E-plus	Macrogolglycerol ricinoleate	18C16-B03-347906	1
Fagro/Sanacorp	Macrogolglycerol ricinoleate	18C16-B03	1
Fagron	Macrogolglycerol ricinoleate	12G02-N11	1
Fagron	Macrogolglycerol ricinoleate	13B08-N03	2
Fagron	Macrogolglycerol ricinoleate	13B08-No3	1
Fagron	Macrogolglycerol ricinoleate	13B28-N01	1
Fagron	Macrogolglycerol ricinoleate	13E13-N11	1
Fagron	Macrogolglycerol ricinoleate	13F12-N17	2
Fagron	Macrogolglycerol ricinoleate	13J24-B03-287433	2
Fagron	Macrogolglycerol ricinoleate	13J24-B03-296052	1
Fagron	Macrogolglycerol ricinoleate	14L08B04	1
Fagron	Macrogolglycerol ricinoleate	14L08-B04	1
Fagron	Macrogolglycerol ricinoleate	14L08-B04-302328	1
Fagron	Macrogolglycerol ricinoleate	16B08B01	1
Fagron	Macrogolglycerol ricinoleate	16B08-B01-322893	1
Fagron	Macrogolglycerol ricinoleate	17J10B02	1
Fagron	Macrogolglycerol ricinoleate	17J10-B02-340819	4
Fagron	Macrogolglycerol ricinoleate	17J10-B02-342613	1
Fagron	Macrogolglycerol ricinoleate	17J10-B02-343252	4
Fagron	Macrogolglycerol ricinoleate	18C16-B03-347906	4
Fagron	Macrogolglycerol ricinoleate	18C16-BO3-347906	1
Fagron	Macrogolglycerol ricinoleate	18K01-B04	3
Fagron	Macrogolglycerol ricinoleate	18K01-B04-360487	1
Fagron	Macrogolglycerol ricinoleate	18K01-B04-360489	1
Fagron	Macrogolglycerol ricinoleate	19A28-B03	1
Fagron	Macrogolglycerol ricinoleate	19A28-B03-360510	1
Fagron	Macrogolglycerol ricinoleate	19A28-B03-362627	3
Fagron	Macrogolglycerol ricinoleate	20I29-T01-083604	2
Fagron	Macrogolglycerol ricinoleate	21C25-T11-083605	1
Fagron	Macrogolglycerol ricinoleate	2OI29-T01-083604	1
Fagron	Macrogolglycerol ricinoleate	3242	1
Fagron	Macrogolglycerol ricinoleate	67100156P0	1
Fagron	Macrogolglycerol ricinoleate	91218124U0	1
Fargon/Phönix	Macrogolglycerol ricinoleate	18K01-B04-355946	1
Nachprüfung von Juni 2018	Macrogolglycerol ricinoleate	13J24-B03-269052	1
Phoenix	Macrogolglycerol ricinoleate	18C16-BO3-353773	1
Phoenix	Macrogolglycerol ricinoleate	73353136W0	1
Phönix	Macrogolglycerol ricinoleate	16B08-B01-328228	1
Sanacorp	Macrogolglycerol ricinoleate	18216906	1

- 297 318 spectra from 1324 *Apo-Ident* customers from a total of 52 923 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Macrogolglycerol ricinoleate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Macrogolglycerol ricinoleate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	179	0	68 320
Type B	0	160	0	111 153
Type C	0	140	0	297 318

The substance/substance group *Macrogolglycerol ricinoleate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.6480 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 95.7143 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Macrogolglycerol ricinoleate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Polysorbate 80	12.14	14.67
Cetiol® HE	18.25	–
Macrogol 8 stereate type I	26.03	35.30
Polysorbate 60	28.71	29.89
Polysorbate 20	29.66	35.19
Macrogol 20 glycerol monostearate type…	30.77	23.48
Macrogolglycerol hydroxystearate 40	34.44	18.86
Lauromacrogol 400	40.33	32.99
Macrogol ointment	41.63	–
Macrogol 4 lauryl ether	53.93	56.02

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Macrogolglycerol ricinoleate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30766	32297	2.42	12.50
31015	32297	4.99	14.33
31368	31368	0.00	11.43
32297	32297	0.00	12.56

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Macrogols 300**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31151-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Macrogols 300; Polyaethylenglycolum 300

Special notes

When selecting the *Macrogols 300* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Macrogols 300	8	3	52

Second-stage model

For differentiation of the substance/substance group *Macrogols 300* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Macrogols 300*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Macrogols 300	13070109	31151	40	1403339
Caelo	Macrogols 300	14043802	31370	40	20140221
Caelo	Macrogols 300	16022102	32073	60	20160222
Caelo	Macrogols 300	160221	32209	40	20160222*
Caelo	Macrogols 300	161609	32212	40	20160607*
Caelo	Macrogols 300	162196	32337	40	20160729*
Caelo	Macrogols 300	182525	34312	40	20181011*
Caelo	Macrogols 300	183201	34325	40	20181214*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 340 spectra of 8 reference samples from the substance/substance group *Macrogols 300*. These samples are listed above in the *calibration samples* section. The reference samples come from 8 different batches.
- 68 159 spectra from a total of 1405 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Macrogols 300*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Macrogols 300	172105	33710	40
Caelo	Macrogols 300	181748	34232	40
Caelo	Macrogols 300	20002036004	35133	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 164 spectra from 85 *Apo-Ident* customers from 55 batches from the substance/substance group *Macrogols 300*.

- Among them are spectra of independent samples from 52 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caeleo/ Krieger	Macrogols 300	18040001	1
Caelo	Macrogols 300	11336201	1
Caelo	Macrogols 300	12108103	1
Caelo	Macrogols 300	12272906	1
Caelo	Macrogols 300	1307109	1
Caelo	Macrogols 300	1323304	1
Caelo	Macrogols 300	13233304	5
Caelo	Macrogols 300	14043802	1
Caelo	Macrogols 300	1406212102	1
Caelo	Macrogols 300	14145106	4
Caelo	Macrogols 300	14183102	2
Caelo	Macrogols 300	15286402	5
Caelo	Macrogols 300	15286403	1
Caelo	Macrogols 300	15286409	5
Caelo	Macrogols 300	160221	1
Caelo	Macrogols 300	16022101	5
Caelo	Macrogols 300	16160903	2
Caelo	Macrogols 300	162196	1
Caelo	Macrogols 300	16219601	10
Caelo	Macrogols 300	1629601	1
Caelo	Macrogols 300	17034401	7
Caelo	Macrogols 300	17034402	1
Caelo	Macrogols 300	17034403	1
Caelo	Macrogols 300	17034404	1
Caelo	Macrogols 300	17034406	5
Caelo	Macrogols 300	17210502	5
Caelo	Macrogols 300	18040001	7
Caelo	Macrogols 300	18040002	2
Caelo	Macrogols 300	18174803	1
Caelo	Macrogols 300	18252501	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogols 300	18252502	1
Caelo	Macrogols 300	18252503	1
Caelo	Macrogols 300	18320102	5
Caelo	Macrogols 300	18320104	5
Caelo	Macrogols 300	1832102	1
Caelo	Macrogols 300	19179901	5
Caelo	Macrogols 300	19179903	1
Caelo	Macrogols 300	19179906	2
Caelo	Macrogols 300	19243901	7
Caelo	Macrogols 300	19243902	1
Caelo	Macrogols 300	200002036004	1
Caelo	Macrogols 300	20000468004	1
Caelo	Macrogols 300	20002036004	1
Caelo	Macrogols 300	20003587001	3
Caelo	Macrogols 300	20004471004	2
Caelo	Macrogols 300	8051813	1
Caesar & Loretz GmbH / ...	Macrogols 300	19243901	1
Caesar & Loretz GmbH/An...	Macrogols 300	19243901	1
Caesar & Loretz GmbH	Macrogols 300	18252501	1
Caesar & Loretz GmbH	Macrogols 300	18320106	1
Caesar & Loretz GmbH	Macrogols 300	19179901	2
Caesar & Loretz GmbH	Macrogols 300	19243901	5
Caesar & Loretz GmbH	Macrogols 300	20002036004	4
Caesar & Loretz GmbH	Macrogols 300	20003587001	1
Caesar & Loretz GmbH	Macrogols 300	21003109004	1
Caesar&Lorenz	Macrogols 300	20002036004	1
Euro OTC	Macrogols 300	2512051	1
Euro OTC	Macrogols 300	4216Q-02102	1
Euro OTC	Macrogols 300	4312I-02102	1
Euro OTC	Macrogols 300	4315A-02102	1
Euro OTC	Macrogols 300	5214I-02102	1
Fiebig	Macrogols 300	19243901	1
Gehe	Macrogols 300	1323304	1
Gehe	Macrogols 300	14183102	1
Gehe	Macrogols 300	16219601	1
Gehe	Macrogols 300	17034406	1
Krieger	Macrogols 300	18329104	1
Nachtestung-Verlängerung	Macrogols 300	164/17	1
Phoenix am 13.03.14	Macrogols 300	13233304	1
Phoenix	Macrogols 300	17210502	1
Phönix	Macrogols 300	18320106	1
Sanacorp	Macrogols 300	16022101	2
Sanacorp	Macrogols 300	1703441	1
Sanacorp	Macrogols 300	18040001	2

- 297 294 spectra from 1324 *Apo-Ident* customers from a total of 52 932 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Macrogols 300* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Macrogols 300* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	340	0	68 159
Type B	0	120	0	111 193
Type C	0	163	1	297 294

The substance/substance group *Macrogols 300* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.2353 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.3902 % (> 97.5610 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Macrogols 300* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Macrogols 400	27.00	–
Macrogol ointment	35.26	–
Lanolin DAB	84.68	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Macrogols 300* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31151	31151	0.00	49.43
31370	31151	4.10	46.09
32073	32209	0.48	40.68

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
32209	32209	0.00	40.38
32212	32212	0.00	40.13
32337	32337	0.00	41.50
34312	34312	0.00	38.34
34325	34325	0.00	38.59

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Macrogols 400**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30523-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Macrogols 400; Macrogolum 400

Special notes

When selecting the *Macrogols 400* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Macrogols 400	6	19	271

Second-stage model

For differentiation of the substance/substance group *Macrogols 400* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Macrogols 400*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Macrogols 400	13171112	31149	40	1403644
Caelo	Macrogols 400	14009101	31367	40	20140123
Caelo	Macrogols 400	170137	33057	40	20170125*
Euro OTC	Macrogols 400	1510042	31814	60	20151216*
Euro OTC	Macrogols 400	1609017	32714	40	20160929*
Euro OTC	Macrogols 400	1911028	34812	40	20200128*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 260 spectra of 6 reference samples from the substance/substance group *Macrogols 400*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 239 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 780 spectra of 19 reference samples from the substance/substance group *Macrogols 400*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 19 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Macrogols 400	160022	32211	40
Caelo	Macrogols 400	162941	33096	40
Caelo	Macrogols 400	171100	33321	40
Caelo	Macrogols 400	172833	33890	40
Caelo	Macrogols 400	190105	34463	40
Caelo	Macrogols 400	192940	34802	40
Caelo	Macrogols 400	21001935	35603	50
Euro OTC	Macrogols 400	1603008	32185	40
Euro OTC	Macrogols 400	1412015	32187	40
Euro OTC	Macrogols 400	1607022	32461	40
Euro OTC	Macrogols 400	1610001	32712	40
Euro OTC	Macrogols 400	1702024	33226	40
Euro OTC	Macrogols 400	1711029	33932	40
Euro OTC	Macrogols 400	1807027	34214	40
Euro OTC	Macrogols 400	1906024	34655	40
Euro OTC	Macrogols 400	2009008	35126	40
Euro OTC	Macrogols 400	2105008	35581	50
Euro OTC	Macrogols 400	2204010	36280	40
Euro OTC	Macrogols 400	2206026	36369	40

- 110 533 spectra from a total of 2647 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1962 spectra from 573 *Apo-Ident* customers from 275 batches from the substance/substance group *Macrogols 400*.

- Among them are spectra of independent samples from 271 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Macrogols 400	19010508	1
	Macrogols 400	19107501	1
AHD	Macrogols 400	13171106	1
AHD;19.06.15;3,34EUR	Macrogols 400	14352801	1
ALH	Macrogols 400	16128203	1
Alliance Health 14.04.2...	Macrogols 400	13272908	2
Allianz	Macrogols 400	180396802	1
Anzag	Macrogols 400	16128203	1
Anzag	Macrogols 400	17013701	1
Anzag	Macrogols 400	17110001	1
ApoIdent/ Phoenix	Macrogols 400	1711029-01	2
Audor Pharma	Macrogols 400	1911028-01	1
Bombastus	Macrogols 400	13F06-N11	3
Bombastus	Macrogols 400	14352814	2
Bombastus	Macrogols 400	160300801	1
Bombastus	Macrogols 400	20001803	1
Bombastus	Macrogols 400	3215E-03059	1
Caeasar & Loretz GmbH	Macrogols 400	20004258001	1
Caeelo	Macrogols 400	19010508	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogols 400		1
Caelo	Macrogols 400	11172705	1
Caelo	Macrogols 400	11293302	1
Caelo	Macrogols 400	11293304	1
Caelo	Macrogols 400	11293311	1
Caelo	Macrogols 400	12043301	3
Caelo	Macrogols 400	12043311	1
Caelo	Macrogols 400	12043312	2
Caelo	Macrogols 400	1206030-02	2
Caelo	Macrogols 400	1213M-03059	1
Caelo	Macrogols 400	12152601	1
Caelo	Macrogols 400	12152602	4
Caelo	Macrogols 400	12152607	1
Caelo	Macrogols 400	12152608	6
Caelo	Macrogols 400	12152611	3
Caelo	Macrogols 400	12152612	8
Caelo	Macrogols 400	12152613	3
Caelo	Macrogols 400	12152614	2
Caelo	Macrogols 400	12277603	1
Caelo	Macrogols 400	12277607	10
Caelo	Macrogols 400	12277608	1
Caelo	Macrogols 400	1314I-03059	1
Caelo	Macrogols 400	13171102	9
Caelo	Macrogols 400	13171103	4
Caelo	Macrogols 400	13171104	5
Caelo	Macrogols 400	13171106	4
Caelo	Macrogols 400	13171107	3
Caelo	Macrogols 400	13171109	2
Caelo	Macrogols 400	131711102	1
Caelo	Macrogols 400	13171112	5
Caelo	Macrogols 400	13171113	2
Caelo	Macrogols 400	13272901	4
Caelo	Macrogols 400	13272904	7
Caelo	Macrogols 400	13272906	2
Caelo	Macrogols 400	13272908	1
Caelo	Macrogols 400	13272909	3
Caelo	Macrogols 400	14(192940004)	1
Caelo	Macrogols 400	14009101	3
Caelo	Macrogols 400	14009102	4
Caelo	Macrogols 400	14009103	2
Caelo	Macrogols 400	14009107	8
Caelo	Macrogols 400	14009109	6
Caelo	Macrogols 400	14009110	1
Caelo	Macrogols 400	14009113	2
Caelo	Macrogols 400	140211-01	1
Caelo	Macrogols 400	1409103	1
Caelo	Macrogols 400	1412015-01	2
Caelo	Macrogols 400	14195601	12
Caelo	Macrogols 400	14195602	8
Caelo	Macrogols 400	14195603	15
Caelo	Macrogols 400	14195605	4
Caelo	Macrogols 400	14195613	1
Caelo	Macrogols 400	14352801	4
Caelo	Macrogols 400	14352803	15
Caelo	Macrogols 400	14352804	4
Caelo	Macrogols 400	14352805	2
Caelo	Macrogols 400	14352813	5
Caelo	Macrogols 400	14352814	18
Caelo	Macrogols 400	14352815	1
Caelo	Macrogols 400	15131401	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogols 400	15131406	4
Caelo	Macrogols 400	15131407	2
Caelo	Macrogols 400	15324001	6
Caelo	Macrogols 400	15324002	16
Caelo	Macrogols 400	15324003	2
Caelo	Macrogols 400	15324007	3
Caelo	Macrogols 400	15324008	4
Caelo	Macrogols 400	15H28-B11-313603	1
Caelo	Macrogols 400	16002201	24
Caelo	Macrogols 400	16002202	6
Caelo	Macrogols 400	16002203	7
Caelo	Macrogols 400	1607022-01	1
Caelo	Macrogols 400	16081807	1
Caelo	Macrogols 400	161258205	1
Caelo	Macrogols 400	161282	1
Caelo	Macrogols 400	16128201	2
Caelo	Macrogols 400	16128202	3
Caelo	Macrogols 400	16128203	34
Caelo	Macrogols 400	16128204	10
Caelo	Macrogols 400	16128204/170227M	1
Caelo	Macrogols 400	16128205	8
Caelo	Macrogols 400	162694102	1
Caelo	Macrogols 400	162941	1
Caelo	Macrogols 400	16294102	9
Caelo	Macrogols 400	16294106	10
Caelo	Macrogols 400	16294107	3
Caelo	Macrogols 400	17013701	23
Caelo	Macrogols 400	17013702	7
Caelo	Macrogols 400	17013705	12
Caelo	Macrogols 400	17013706	15
Caelo	Macrogols 400	17110001	41
Caelo	Macrogols 400	17110003	20
Caelo	Macrogols 400	17110006	4
Caelo	Macrogols 400	17110007	6
Caelo	Macrogols 400	17283301	33
Caelo	Macrogols 400	17283302	15
Caelo	Macrogols 400	17283303	12
Caelo	Macrogols 400	17J27-B02-344405	1
Caelo	Macrogols 400	18/229707	1
Caelo	Macrogols 400	18022801	1
Caelo	Macrogols 400	18038304	1
Caelo	Macrogols 400	18039602	1
Caelo	Macrogols 400	180398	3
Caelo	Macrogols 400	18039802	61
Caelo	Macrogols 400	18039803	35
Caelo	Macrogols 400	18039804	1
Caelo	Macrogols 400	18081505	1
Caelo	Macrogols 400	181294	16
Caelo	Macrogols 400	18129401	20
Caelo	Macrogols 400	18129402	1
Caelo	Macrogols 400	18129405	16
Caelo	Macrogols 400	182297	8
Caelo	Macrogols 400	18229702	6
Caelo	Macrogols 400	18229703	40
Caelo	Macrogols 400	18229704	2
Caelo	Macrogols 400	18229705	4
Caelo	Macrogols 400	18229706	42
Caelo	Macrogols 400	18229707	16
Caelo	Macrogols 400	18229708	2
Caelo	Macrogols 400	1822978	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogols 400	18244802	1
Caelo	Macrogols 400	190102508	1
Caelo	Macrogols 400	190105	24
Caelo	Macrogols 400	19010501	40
Caelo	Macrogols 400	19010502	11
Caelo	Macrogols 400	19010503	1
Caelo	Macrogols 400	19010505	20
Caelo	Macrogols 400	19010507	2
Caelo	Macrogols 400	19010508	34
Caelo	Macrogols 400	19010509	8
Caelo	Macrogols 400	1901051	1
Caelo	Macrogols 400	19010511	3
Caelo	Macrogols 400	1901051501	1
Caelo	Macrogols 400	190107507	1
Caelo	Macrogols 400	1910175	8
Caelo	Macrogols 400	191075001	10
Caelo	Macrogols 400	19107501	26
Caelo	Macrogols 400	19107502	18
Caelo	Macrogols 400	19107504	10
Caelo	Macrogols 400	19107506	19
Caelo	Macrogols 400	19107507	15
Caelo	Macrogols 400	19240004	2
Caelo	Macrogols 400	192940001	3
Caelo	Macrogols 400	192940004	36
Caelo	Macrogols 400	192940005	36
Caelo	Macrogols 400	192940006	12
Caelo	Macrogols 400	192940006-1	1
Caelo	Macrogols 400	192940006-2	4
Caelo	Macrogols 400	192940006-3	2
Caelo	Macrogols 400	19294004	2
Caelo	Macrogols 400	200001841001	1
Caelo	Macrogols 400	20001841001	17
Caelo	Macrogols 400	20001841002	35
Caelo	Macrogols 400	20001841004	7
Caelo	Macrogols 400	20001841007	1
Caelo	Macrogols 400	20001841008	13
Caelo	Macrogols 400	20001841009	5
Caelo	Macrogols 400	20001841010	9
Caelo	Macrogols 400	2000184109	1
Caelo	Macrogols 400	200018411001	1
Caelo	Macrogols 400	20003916001	1
Caelo	Macrogols 400	20003916004	9
Caelo	Macrogols 400	20003916005	1
Caelo	Macrogols 400	20003916007	10
Caelo	Macrogols 400	2000391604	1
Caelo	Macrogols 400	20004258001	10
Caelo	Macrogols 400	20004258002	6
Caelo	Macrogols 400	20004258003	26
Caelo	Macrogols 400	20004258003/210706	1
Caelo	Macrogols 400	2001841002	1
Caelo	Macrogols 400	20021306	1
Caelo	Macrogols 400	20190612-1	1
Caelo	Macrogols 400	21001935002	5
Caelo	Macrogols 400	21001935004	2
Caelo	Macrogols 400	21092015B	1
Caelo	Macrogols 400	2412U-03059	1
Caelo	Macrogols 400	27111309	1
Caelo	Macrogols 400	2917E-03059	1
Caelo	Macrogols 400	3790304	3
Caelo	Macrogols 400	3790310	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Macrogols 400	3790505	1
Caelo	Macrogols 400	38121-03059	1
Caelo	Macrogols 400	91075	1
Caelo	Macrogols 400	929400041	1
Caelo	Macrogols 400	B-19107506	1
Caelo	Macrogols 400	CH18229706	1
Caeolo/Sanacorp	Macrogols 400	18039802	1
Caeolo/Sanacorp	Macrogols 400	19010509	1
Caesar & Loretz GmbH /...	Macrogols 400	192940004	1
Caesar & Loretz GmbH / ...	Macrogols 400	192940006	2
Caesar & Loretz GmbH / ...	Macrogols 400	19010509	1
Caesar & Loretz GmbH / ...	Macrogols 400	18229707	1
Caesar & Loretz GmbH / ...	Macrogols 400	19107506	1
Caesar & Loretz GmbH / ...	Macrogols 400	19107501	1
Caesar & Loretz GmbH / ...	Macrogols 400	21001935002	2
Caesar & Loretz GmbH /	Macrogols 400	19107507	1
Caesar & Loretz GmbH/ A...	Macrogols 400	20003916004	1
Caesar & Loretz GmbH/ G...	Macrogols 400	19010511	1
Caesar & Loretz GmbH/ J...	Macrogols 400	20001841008	1
Caesar & Loretz GmbH/ K...	Macrogols 400	19107501	1
Caesar & Loretz GmbH/ p...	Macrogols 400	18229708	1
Caesar & Loretz GmbH/ P...	Macrogols 400	192940004	1
Caesar & Loretz GmbH/Fi...	Macrogols 400	20001841001	1
Caesar & Loretz GmbH/Fi...	Macrogols 400	20004258003	1
Caesar & Loretz GmbH/Gehe	Macrogols 400	18229706	1
Caesar & Loretz GmbH/Gehe	Macrogols 400	18229707	1
Caesar & Loretz GmbH/GEHE	Macrogols 400	20001841002	1
Caesar & Loretz GmbH/Gehe	Macrogols 400	20004258002	1
Caesar & Loretz GmbH/Gehe	Macrogols 400	21001935002	1
Caesar & Loretz GmbH/Ge...	Macrogols 400	19010507	1
Caesar & Loretz GmbH/Ge...	Macrogols 400	19107503	1
Caesar & Loretz GmbH/Ge...	Macrogols 400	19107509	3
Caesar & Loretz GmbH/Ge...	Macrogols 400	192940008	2
Caesar & Loretz GmbH/Je...	Macrogols 400	19010508	1
Caesar & Loretz GmbH/Je...	Macrogols 400	191075001	1
Caesar & Loretz GmbH/Kr...	Macrogols 400	19010505	2
Caesar & Loretz GmbH/Kr...	Macrogols 400	192940004	1
Caesar & Loretz GmbH/Kr...	Macrogols 400	20001841002	1
Caesar & Loretz GmbH/Kr...	Macrogols 400	20003916004	1
Caesar & Loretz GmbH/Kr...	Macrogols 400	20004258001	2
Caesar & Loretz GmbH/No...	Macrogols 400	191075001	1
Caesar & Loretz GmbH/No...	Macrogols 400	192940006	2
Caesar & Loretz GmbH/No...	Macrogols 400	200018410002	1
Caesar & Loretz GmbH/No...	Macrogols 400	20001841002	2
Caesar & Loretz GmbH/No...	Macrogols 400	3790310	1
Caesar & Loretz GmbH/Ph...	Macrogols 400	20004258001	2
Caesar & Loretz GmbH/Ph...	Macrogols 400	18229707	1
Caesar & Loretz GmbH/Ph...	Macrogols 400	1929400	1
Caesar & Loretz GmbH/Ph...	Macrogols 400	20001481002	1
Caesar & Loretz GmbH/Ph...	Macrogols 400	20001841008	1
Caesar & Loretz GmbH/Ph...	Macrogols 400	20001841010	1
Caesar & Loretz GmbH/Sa...	Macrogols 400	19010501	1
Caesar & Loretz GmbH/Sa...	Macrogols 400	19107501	2
Caesar & Loretz GmbH/Sa...	Macrogols 400	192940004	1
Caesar & Loretz GmbH/Sa...	Macrogols 400	192940005	1
Caesar & Loretz GmbH/Sa...	Macrogols 400	20001841002	1
Caesar & Loretz GmbH/Sa...	Macrogols 400	20004258003	1
Caesar & Loretz GmbH	Macrogols 400	14195603	1
Caesar & Loretz GmbH	Macrogols 400	18039802	1
Caesar & Loretz GmbH	Macrogols 400	18129405	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Macrogols 400	18229702	1
Caesar & Loretz GmbH	Macrogols 400	18229703	3
Caesar & Loretz GmbH	Macrogols 400	18229704	2
Caesar & Loretz GmbH	Macrogols 400	18229706	12
Caesar & Loretz GmbH	Macrogols 400	18229707	6
Caesar & Loretz GmbH	Macrogols 400	18229708	1
Caesar & Loretz GmbH	Macrogols 400	19010501	16
Caesar & Loretz GmbH	Macrogols 400	19010502	1
Caesar & Loretz GmbH	Macrogols 400	19010505	3
Caesar & Loretz GmbH	Macrogols 400	19010508	8
Caesar & Loretz GmbH	Macrogols 400	19010509	2
Caesar & Loretz GmbH	Macrogols 400	19010511	1
Caesar & Loretz GmbH	Macrogols 400	191075001	2
Caesar & Loretz GmbH	Macrogols 400	19107501	10
Caesar & Loretz GmbH	Macrogols 400	19107502	2
Caesar & Loretz GmbH	Macrogols 400	19107506	9
Caesar & Loretz GmbH	Macrogols 400	19107507	4
Caesar & Loretz GmbH	Macrogols 400	19107509	1
Caesar & Loretz GmbH	Macrogols 400	192940	3
Caesar & Loretz GmbH	Macrogols 400	192940001	1
Caesar & Loretz GmbH	Macrogols 400	192940004	11
Caesar & Loretz GmbH	Macrogols 400	192940005	8
Caesar & Loretz GmbH	Macrogols 400	192940006	3
Caesar & Loretz GmbH	Macrogols 400	19294001	1
Caesar & Loretz GmbH	Macrogols 400	19294004	1
Caesar & Loretz GmbH	Macrogols 400	19294005	1
Caesar & Loretz GmbH	Macrogols 400	20001841001	4
Caesar & Loretz GmbH	Macrogols 400	20001841002	8
Caesar & Loretz GmbH	Macrogols 400	20001841004	3
Caesar & Loretz GmbH	Macrogols 400	20001841005	2
Caesar & Loretz GmbH	Macrogols 400	20001841007	1
Caesar & Loretz GmbH	Macrogols 400	20001841008	2
Caesar & Loretz GmbH	Macrogols 400	20001841009	5
Caesar & Loretz GmbH	Macrogols 400	20001841010	11
Caesar & Loretz GmbH	Macrogols 400	20003916001	1
Caesar & Loretz GmbH	Macrogols 400	20003916004	3
Caesar & Loretz GmbH	Macrogols 400	20003916005	1
Caesar & Loretz GmbH	Macrogols 400	20003916006	1
Caesar & Loretz GmbH	Macrogols 400	20003916007	6
Caesar & Loretz GmbH	Macrogols 400	20004258001	10
Caesar & Loretz GmbH	Macrogols 400	20004258002	1
Caesar & Loretz GmbH	Macrogols 400	20004258003	7
Caesar & Loretz GmbH	Macrogols 400	2004258001	1
Caesar & Loretz GmbH	Macrogols 400	21001935002	3
Caesar & Loretz GmbH-ph...	Macrogols 400	21001935002	1
Caesar & Loretz Hilden/...	Macrogols 400	192940004	1
Caesar & Loretz Hilden/...	Macrogols 400	19107506	1
Caesar Loretz	Macrogols 400	20001841010	1
Caesar&Loretz GmbH/ San...	Macrogols 400	18039802	2
Caesar&Loretz GmbH/Anzag	Macrogols 400	14352803	2
Caesar/Noweda	Macrogols 400	13171106	1
calo	Macrogols 400	18039804	1
Canea/Phönix	Macrogols 400	14352805	1
Cealo/Gehe	Macrogols 400	12043311	1
Euro OTC	Macrogols 400	1206030-01	4
Euro OTC	Macrogols 400	1206030-02	4
Euro OTC	Macrogols 400	1304030	1
Euro OTC	Macrogols 400	130403001	1
Euro OTC	Macrogols 400	1304030-01	10
Euro OTC	Macrogols 400	1402011-01	14

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Macrogols 400	1402011-11	1
Euro OTC	Macrogols 400	1412015-01	7
Euro OTC	Macrogols 400	1412015-02	1
Euro OTC	Macrogols 400	1510042-01	4
Euro OTC	Macrogols 400	1603008-01	4
Euro OTC	Macrogols 400	1607022-01	7
Euro OTC	Macrogols 400	1610001-01	1
Euro OTC	Macrogols 400	16128201	1
Euro OTC	Macrogols 400	16128205	1
Euro OTC	Macrogols 400	1702024-01	1
Euro OTC	Macrogols 400	1702024-02	4
Euro OTC	Macrogols 400	171102901	1
Euro OTC	Macrogols 400	1711029-01	6
Euro OTC	Macrogols 400	17112019-01	1
Euro OTC	Macrogols 400	180308M/1711029-01	1
Euro OTC	Macrogols 400	18039802	1
Euro OTC	Macrogols 400	1807027_01	1
Euro OTC	Macrogols 400	1807027-01	11
Euro OTC	Macrogols 400	18229706	1
Euro OTC	Macrogols 400	190602-01	1
Euro OTC	Macrogols 400	190602401	2
Euro OTC	Macrogols 400	1906024-01	7
Euro OTC	Macrogols 400	1911028-01	7
Euro OTC	Macrogols 400	1911028-28	1
Euro OTC	Macrogols 400	20001841001	3
Euro OTC	Macrogols 400	2009008	1
Euro OTC	Macrogols 400	2009008-01	6
Euro OTC	Macrogols 400	2105008-02	2
Euro OTC	Macrogols 400	9309522	1
Fafron/Anzag	Macrogols 400	1014E-03059	1
Fagron	Macrogols 400	11/45	1
Fagron	Macrogols 400	11F07-N01	1
Fagron	Macrogols 400	11I13-N04	1
Fagron	Macrogols 400	12c21-n10	1
Fagron	Macrogols 400	12C21-N10	7
Fagron	Macrogols 400	12H02-N05	4
Fagron	Macrogols 400	12H02-N05	1
Fagron	Macrogols 400	13126-N21	1
Fagron	Macrogols 400	13A25-N02	6
Fagron	Macrogols 400	13F06-B40-289978	1
Fagron	Macrogols 400	13F06-N11	4
Fagron	Macrogols 400	13I26-N21	1
Fagron	Macrogols 400	14B05-B04	1
Fagron	Macrogols 400	14B05-B04-294688	5
Fagron	Macrogols 400	14G10-B05	1
Fagron	Macrogols 400	14G10-B05_300393	1
Fagron	Macrogols 400	14G10-B05-300393	2
Fagron	Macrogols 400	14G10-B05-300394	2
Fagron	Macrogols 400	14K26-B01	2
Fagron	Macrogols 400	14K26-B01-301176	1
Fagron	Macrogols 400	15B16-02-B02-308528	1
Fagron	Macrogols 400	15B16-B02-308528	2
Fagron	Macrogols 400	16D07-B09-322539	1
Fagron	Macrogols 400	16K14-B01-331740	4
Fagron	Macrogols 400	17110001	1
Fagron	Macrogols 400	17J27-B02	1
Fagron	Macrogols 400	17J27-B02-344405	2
Fagron	Macrogols 400	18039802	1
Fagron	Macrogols 400	19B11-B02-191384	1
Fagron	Macrogols 400	19H08-B02-195104	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Macrogols 400	20001841009	1
Fagron	Macrogols 400	20B24-B03-200340	1
Fagron	Macrogols 400	2314A-03059	1
Fagron	Macrogols 400	B03-2003400	1
FEJ	Macrogols 400	15324004	1
Fiebig	Macrogols 400	15131407	1
Fiebig	Macrogols 400	15324003	1
Fiebig	Macrogols 400	16002203	1
Fiebig	Macrogols 400	161628204	1
Fiebig	Macrogols 400	166128204	1
Fiebig	Macrogols 400	18039803	1
Finteler Apotheke	Macrogols 400	17013701	1
Finteler Apotheke	Macrogols 400	17110001	1
Galderma	Macrogols 400	17283301	1
Gatt-Koller	Macrogols 400	1701872	1
Gatt-Koller	Macrogols 400	1802331	1
Gehe	Macrogols 400	13272908	1
Gehe	Macrogols 400	14195603	1
Gehe	Macrogols 400	14352801	1
Gehe	Macrogols 400	14352814	2
Gehe	Macrogols 400	16002201	2
Gehe	Macrogols 400	16K14-B01-331740	1
GEHE	Macrogols 400	19010502	1
Gehe	Macrogols 400	19107501	1
Gehe	Macrogols 400	192940005	1
Gehe	Macrogols 400	2009008-01	1
Hedinger/Phönix	Macrogols 400	20161B	1
Hedinger	Macrogols 400	13F06-N11	1
Hedinger	Macrogols 400	18229707	4
Henry Lamotte/AHD	Macrogols 400	18039802	1
Henry Lamotte	Macrogols 400	18229703	3
Ichthyol/Alliance	Macrogols 400	17110001	1
JENNE	Macrogols 400	170013706	1
Jenne	Macrogols 400	19010509	1
Kehr	Macrogols 400	17013701	2
Kehr	Macrogols 400	17283302	1
Kögl	Macrogols 400	1700723	1
KÖGL	Macrogols 400	1803626	1
Kögl	Macrogols 400	267208163416	1
Krieger	Macrogols 400	17013706	1
L12	Macrogols 400	16294106	2
L12	Macrogols 400	17110001	2
L30	Macrogols 400	17283301	2
L30	Macrogols 400	18229703	1
Maros Arznei	Macrogols 400	18039802	1
Nachprüfung	Macrogols 400	123456	1
Nachprüfung	Macrogols 400	AP210507-08	1
Noveda	Macrogols 400	18229706	1
Noweda	Macrogols 400	12043312	1
Noweda	Macrogols 400	12152614	3
Noweda	Macrogols 400	1215614	1
Noweda	Macrogols 400	15131406	1
Noweda	Macrogols 400	15324008	1
Noweda	Macrogols 400	18229706	1
Noweda	Macrogols 400	2009008-01	1
OTG/Phönix	Macrogols 400	1412015-01	1
Phoenix	Macrogols 400	12152611	1
Phoenix	Macrogols 400	16002203	1
Phoenix	Macrogols 400	18229706	1
Phoenix	Macrogols 400	19010501	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Macrogols 400	20003916004	1
Phönix Gotha	Macrogols 400	12277607	1
Phönix	Macrogols 400	1206030-01	1
Phönix	Macrogols 400	12152601	1
Phönix	Macrogols 400	14009109	1
Phönix	Macrogols 400	14352814	1
phönix	Macrogols 400	16128205	1
PHÖNIX	Macrogols 400	17283303	1
Phönix	Macrogols 400	18039802	1
PHÖNIX	Macrogols 400	18129401	1
Phönix	Macrogols 400	19010501	1
Phönix	Macrogols 400	19107501	1
Phönix	Macrogols 400	192940004	1
PHÖNIX	Macrogols 400	192940004	1
sanacorp, 3,43EUR, 20.09....	Macrogols 400	16128201	1
Sanacorp	Macrogols 400	1412015-01	1
Sanacorp	Macrogols 400	16128203	3
Sanacorp	Macrogols 400	17110006	1
Sanacorp	Macrogols 400	17283301	3
Sanacorp	Macrogols 400	17283302	1
Sanacorp	Macrogols 400	18229706	3
Sanacorp	Macrogols 400	191075001	4
Sanacorp	Macrogols 400	20001841001	1
VDL 16.04.14	Macrogols 400	13272906//05R06	1
WE:Sanacorp 19.10.2016 ...	Macrogols 400	16128203	1

- 295 496 spectra from 1324 *Apo-Ident* customers from a total of 52 716 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Macrogols 400* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Macrogols 400* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	260	0	68 239
Type B	0	780	0	110 533
Type C	0	1951	11	295 496

The substance/substance group *Macrogols 400* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.6923 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.2308 %)
Type C	100.0000 % (> 99.6875 %)	99.4393 % (> 99.2864 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Macrogols 400* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Macrogols 300	18.01	–
Macrogol ointment	20.03	–
Polysorbate 20	69.75	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Macrogols 400* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31149	31149	0.00	24.78
31367	33057	8.28	21.13
31814	31814	0.00	25.71
32714	32714	0.00	23.32
33057	33057	0.00	23.86
34812	34812	0.00	27.84

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Mandarin oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31747-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Mandarin oil; Citri reticulatae aetheroleum

Special notes

When selecting the *Mandarin oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Mandarin oil	2	3	12

Second-stage model

For differentiation of the substance/substance group *Mandarin oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Mandarin oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Mandarin oil	14064103	31747	60	1602210
Caelo	Mandarin oil	15398001	31863	60	20151127

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 120 spectra of 2 reference samples from the substance/substance group *Mandarin oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 2 different batches.
- 68 379 spectra from a total of 1411 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Mandarin oil*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Mandarin oil	170368	33074	40
Caelo	Mandarin oil	180923	34055	40
Caelo	Mandarin oil	20004127001	35736	50

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 41 spectra from 10 *Apo-Ident* customers from 13 batches from the substance/substance group *Mandarin oil*.
- Among them are spectra of independent samples from 12 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Mandarin oil	15011601	12
Caelo	Mandarin oil	15398001	1
Caelo	Mandarin oil	15398003	2
Caelo	Mandarin oil	17036801	4
Caelo	Mandarin oil	17361201	6
Caelo	Mandarin oil	18092301	3
Caelo	Mandarin oil	18092305	3
Caelo	Mandarin oil	19000597003	1
Caelo	Mandarin oil	19000597004	3
Caelo	Mandarin oil	20004127001	2
Primavera	Mandarin oil	190A28	1
Taoasis	Mandarin oil	412011-124957	1
Taoasis	Mandarin oil	776-4175	2

- 297 417 spectra from 1324 *Apo-Ident* customers from a total of 52 974 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Mandarin oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Mandarin oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	120	0	68 379
Type B	0	130	0	111 183
Type C	0	41	0	297 417

The substance/substance group *Mandarin oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6877 %)	100.0000 % (> 85.3659 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Mandarin oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Bitter orange oil	12.20	–
Grapefruit oil	21.69	–
Sweet orange oil	22.78	–
Citric oil	24.53	–
Caraway oil	49.43	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Mandarin oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31747	31747	0.00	20.67
31863	31747	4.29	19.61

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Matricaria oil, rich in (-)-alpha-bisabolol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30738-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Matricaria oil, rich in (-)-alpha-bisabolol; Oleum chamomillae

Special notes

When selecting the *Matricaria oil, rich in (-)-alpha-bisabolol* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Matricaria oil, rich in (-)-alpha-bisabolol	5	3	29

Second-stage model

For differentiation of the substance/substance group *Matricaria oil, rich in (-)-alpha-bisabolol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Matricaria oil, rich in (-)-alpha-bisabolol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Matricaria oil, ...	11221206	30738	40	20110810
Caelo	Matricaria oil, ...	13195103	31239	30	1504133
Caelo	Matricaria oil, ...	13334702	31427	60	20131009
Caelo	Matricaria oil, ...	13334702	31428	60	20131009
Caelo	Matricaria oil, ...	190925	34442	40	20190405*
Caelo	Matricaria oil, ...	19000642	35726	50	20191216*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 280 spectra of 6 reference samples from the substance/substance group *Matricaria oil, rich in (-)-alpha-bisabolol*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.

- 68 219 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 100 spectra of 3 reference samples from the substance/substance group *Matricaria oil, rich in (-)-alpha-bisabolol*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Matricaria oil, rich in (-)-...	13195101	31160	20
Caelo	Matricaria oil, rich in (-)-...	163310	33081	40
Caelo	Matricaria oil, rich in (-)-...	181173	34072	40

- 111 213 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 44 spectra from 18 *Apo-Ident* customers from 29 batches from the substance/substance group *Matricaria oil, rich in (-)-alpha-bisabolol*.

- Among them are spectra of independent samples from 29 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
ASAV	Matricaria oil, rich in (-)-...	10816315857	1
Caelo	Matricaria oil, rich in (-)-...	15080505	2
Caelo	Matricaria oil, rich in (-)-...	15137801	2
Caelo	Matricaria oil, rich in (-)-...	16048901	1
Caelo	Matricaria oil, rich in (-)-...	16048910	5
Caelo	Matricaria oil, rich in (-)-...	16331005	3
Caelo	Matricaria oil, rich in (-)-...	17353504	5
Caelo	Matricaria oil, rich in (-)-...	17353505	1
Caelo	Matricaria oil, rich in (-)-...	17353506	1
Caelo	Matricaria oil, rich in (-)-...	18091401	1
Caelo	Matricaria oil, rich in (-)-...	18117302	1
Caelo	Matricaria oil, rich in (-)-...	18117304	1
Caelo	Matricaria oil, rich in (-)-...	18117306	1
Caelo	Matricaria oil, rich in (-)-...	19000642002	1
Caelo	Matricaria oil, rich in (-)-...	19000642003	1
Caelo	Matricaria oil, rich in (-)-...	19000642006	1
Caelo	Matricaria oil, rich in (-)-...	19000642008	1
Caelo	Matricaria oil, rich in (-)-...	19092502	1
Caelo	Matricaria oil, rich in (-)-...	20003048001	1
Caelo	Matricaria oil, rich in (-)-...	20004197004	1
Caelo	Matricaria oil, rich in (-)-...	4916E-03052	1
Caesar & Loretz GmbH	Matricaria oil, rich in (-)-...	18117302	1
Caesar & Loretz GmbH	Matricaria oil, rich in (-)-...	18117306	1
Caesar & Loretz GmbH	Matricaria oil, rich in (-)-...	20004197001	1
Max Jenne /G436	Matricaria oil, rich in (-)-...	20003048001	1
Taoasis	Matricaria oil, rich in (-)-...	16266-119132	1
Taoasis	Matricaria oil, rich in (-)-...	2017100477-128584	1
Taoasis	Matricaria oil, rich in (-)-...	6181024-121466	1
Taoasis	Matricaria oil, rich in (-)-...	6181024-122141	1
Taoasis	Matricaria oil, rich in (-)-...	6181024-123496	1
Taoasis	Matricaria oil, rich in (-)-...	6181024-123770	1
Taoasis	Matricaria oil, rich in (-)-...	929-115334	1

- 297 414 spectra from 1324 *Apo-Ident* customers from a total of 52 958 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Matricaria oil, rich in (-)-alpha-bisabolol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Matricaria oil, rich in (-)-alpha-bisabolol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	280	0	68 219
Type B	0	100	0	111 213
Type C	0	44	0	297 414

The substance/substance group *Matricaria oil, rich in (-)-alpha-bisabolol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.8571 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 94.0000 %)
Type C	100.0000 % (> 99.6877 %)	100.0000 % (> 86.3636 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Matricaria oil, rich in (-)-alpha-bisabolol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Verbena oil, nature-identical	30.55	–
Geranium oil, genuine	34.48	–
Tea tree oil	46.50	–
Acorus oil	51.19	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Matricaria oil, rich in (-)-alpha-bisabolol* is separated from critical neighbours

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30738	34442	3.88	23.83
31239	31239	0.00	27.15
31427	31239	6.27	21.64
31428	31239	6.46	21.53
34442	34442	0.00	21.27
35726	35726	0.00	26.28

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Melissa oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30207-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Melissa oil

Special notes

When selecting the *Melissa oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Melissa oil	4	3	78

Second-stage model

For differentiation of the substance/substance group *Melissa oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Melissa oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Melissa oil	13086306	31163	40	1403319
Caelo	Melissa oil	13354110	31403	40	20131028
Caelo	Melissa oil	163349	33080	40	20161215*
Caelo	Melissa oil	183300	34641	40	20181221*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 160 spectra of 4 reference samples from the substance/substance group *Melissa oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 339 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Melissa oil*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Melissa oil	16053609	33784	40
Caelo	Melissa oil	180973	34084	40
Caelo	Melissa oil	20000819011	35857	50

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 281 spectra from 116 *Apo-Ident* customers from 81 batches from the substance/substance group *Melissa oil*.
- Among them are spectra of independent samples from 78 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Alte Apotheke	Melissa oil	16053601	1
Anzag 27.02.13 ek: 8.17EUR	Melissa oil	122833801	1
Caelo	Melissa oil		1
Caelo	Melissa oil	10019704	1
Caelo	Melissa oil	11287407	1
Caelo	Melissa oil	11323902	3
Caelo	Melissa oil	11323903	1
Caelo	Melissa oil	11323909	1
Caelo	Melissa oil	11323911	1
Caelo	Melissa oil	122283804	1
Caelo	Melissa oil	1228380	1
Caelo	Melissa oil	12283801	1
Caelo	Melissa oil	12283804	5
Caelo	Melissa oil	12283805	2
Caelo	Melissa oil	12283809	9
Caelo	Melissa oil	13086303	1
Caelo	Melissa oil	13086304	1
Caelo	Melissa oil	13086306	4
Caelo	Melissa oil	13086308	6
Caelo	Melissa oil	13086310	3
Caelo	Melissa oil	13086311	7
Caelo	Melissa oil	13354105	2
Caelo	Melissa oil	13354108	1
Caelo	Melissa oil	13354110	3
Caelo	Melissa oil	13354113	6
Caelo	Melissa oil	13354114	1
Caelo	Melissa oil	14332501	8
Caelo	Melissa oil	14332502	2
Caelo	Melissa oil	14332504	2
Caelo	Melissa oil	14332508	2
Caelo	Melissa oil	14332511	14
Caelo	Melissa oil	14332512	1
Caelo	Melissa oil	1512303	1
Caelo	Melissa oil	15172303	20
Caelo	Melissa oil	15172304	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Melissa oil	15172308	10
Caelo	Melissa oil	15172310	1
Caelo	Melissa oil	15172313	5
Caelo	Melissa oil	16053601	14
Caelo	Melissa oil	16053602	1
Caelo	Melissa oil	16053609	13
Caelo	Melissa oil	16053610	1
Caelo	Melissa oil	16334905	20
Caelo	Melissa oil	16334906	3
Caelo	Melissa oil	16334912	6
Caelo	Melissa oil	17012014	1
Caelo	Melissa oil	17091201	1
Caelo	Melissa oil	171207OM/16053609	1
Caelo	Melissa oil	18081501	1
Caelo	Melissa oil	18087301	1
Caelo	Melissa oil	18097301	16
Caelo	Melissa oil	18097306	2
Caelo	Melissa oil	18097308	7
Caelo	Melissa oil	183300003	1
Caelo	Melissa oil	18330002	1
Caelo	Melissa oil	18330004	6
Caelo	Melissa oil	18330007	5
Caelo	Melissa oil	18330008	1
Caelo	Melissa oil	190412	1
Caelo	Melissa oil	200000819009	1
Caelo	Melissa oil	20000819002	1
Caelo	Melissa oil	20000819003	2
Caelo	Melissa oil	20000819008	3
Caelo	Melissa oil	20000819009	1
Caelo	Melissa oil	20000819011	1
Caelo	Melissa oil	20000819013	2
Caelo	Melissa oil	2000819011	1
Caelo	Melissa oil	20230712-7	1
Caelo	Melissa oil	21002240002	1
Caelo	Melissa oil	21041715	1
Caelo	Melissa oil	21111303	1
Caelo	Melissa oil	25(18097301)	1
Caelo	Melissa oil	26(2000081908	1
Caelo	Melissa oil	28051311	1
Caelo	Melissa oil	4110I-01993	1
Caelo	Melissa oil	5211R-01993	1
Caeolo	Melissa oil	14332501	1
Caesar & Loretz GmbH, 4...	Melissa oil	11323910	1
Caesar & Loretz GmbH/ G...	Melissa oil	21002240002	1
Caesar & Loretz GmbH/Je...	Melissa oil	20000819002	1
Caesar & Loretz GmbH/No...	Melissa oil	18330007	1
Caesar & Loretz GmbH	Melissa oil	18097308	2
Caesar & Loretz GmbH	Melissa oil	18330003	1
Caesar & Loretz GmbH	Melissa oil	20000819003	1
Caesar&loretz,Anzag	Melissa oil	11323902	1
Caleo/Phönix	Melissa oil	16053609	1
celo/phönix	Melissa oil	12283805	1
Fiebig	Melissa oil	16334906	1
GEHE Kassel 07.01.2019	Melissa oil	18097301	1
Gehe	Melissa oil	1517203	1
GEHE	Melissa oil	18097301	1
Nachprüfung	Melissa oil	130863060	1
P&M Cosmetics GmbH&Co.KG	Melissa oil	200419	1
Phoenix	Melissa oil	18097306	1
Phönix	Melissa oil	12283809	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Melissa oil	13086306	1
Sanacorp	Melissa oil	1334110	1
Spangro 7.11.18	Melissa oil	18097301	1

- 297 177 spectra from 1324 *Apo-Ident* customers from a total of 52 911 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Melissa oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Melissa oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive/negative*) and the validation spectrum type (*A/B/C*).

	False positive	True positive	False negative	True negative
Type A	0	160	0	68 339
Type B	0	130	0	111 183
Type C	0	279	2	297 177

The substance/substance group *Melissa oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.2500 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6875 %)	99.2883 % (> 98.2206 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Melissa oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Citronella oil	38.28	–
Tea tree oil	45.43	–
Bitter orange oil	50.22	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Melissa oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31163	31163	0.00	49.65
31403	31163	4.83	47.37
33080	33080	0.00	50.55
34641	34641	0.00	50.74

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Methyl salicylate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31038-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Methyl salicylate; Methylis salicylas

Special notes

When selecting the *Methyl salicylate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Methyl salicylate	4	3	71

Second-stage model

For differentiation of the substance/substance group *Methyl salicylate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Methyl salicylate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Methyl salicylate	12215217	31038	40	1403162
Caelo	Methyl salicylate	15409810	33280	40	20160118
Fagron	Methyl salicylate	14D03-B04-294169	31607	60	20140414
Fagron	Methyl salicylate	16E23-B05-332971	33275	40	20160608

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 180 spectra of 4 reference samples from the substance/substance group *Methyl salicylate*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 319 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Methyl salicylate*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Methyl salicylate	192086	34728	40
Fagron	Methyl salicylate	18B19-B06-346255	34047	40
Fagron	Methyl salicylate	20C03-F04-374159	35460	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 119 spectra from 73 *Apo-Ident* customers from 75 batches from the substance/substance group *Methyl salicylate*.

- Among them are spectra of independent samples from 71 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
ACM	Methyl salicylate	KNC1794J14	1
Alliance Health 10.06.2...	Methyl salicylate	RMS1332311	1
Alliance Health 18.11.2...	Methyl salicylate	13185102	1
Bomb/ Noweda	Methyl salicylate	RMS1332311	1
Caelo	Methyl salicylate	10313708	3
Caelo	Methyl salicylate	1219Q-01867	1
Caelo	Methyl salicylate	12215215	1
Caelo	Methyl salicylate	12308307	1
Caelo	Methyl salicylate	12308313	1
Caelo	Methyl salicylate	13-11-n06	1
Caelo	Methyl salicylate	13185101	3
Caelo	Methyl salicylate	13189308	1
Caelo	Methyl salicylate	13189309	2
Caelo	Methyl salicylate	13I11-N06	1
Caelo	Methyl salicylate	14D03-B04-294169	1
Caelo	Methyl salicylate	15117904	3
Caelo	Methyl salicylate	15117910	3
Caelo	Methyl salicylate	15409807	1
Caelo	Methyl salicylate	15B09-B04	1
Caelo	Methyl salicylate	15B09-B04303941	1
Caelo	Methyl salicylate	17071301	1
Caelo	Methyl salicylate	17360503	2
Caelo	Methyl salicylate	17H21B04338848	1
Caelo	Methyl salicylate	18039003	3
Caelo	Methyl salicylate	3917E-01867	1
Caelo	Methyl salicylate	7111203	1
Caelo	Methyl salicylate	90328419	1
Caesar & Loretz GmbH, 4...	Methyl salicylate	12215215	1
Caesar & Loretz GmbH	Methyl salicylate	17360510	1
Euro OTC	Methyl salicylate	18B19-B06-346255	1
Fagron	Methyl salicylate	1139	1
Fagron	Methyl salicylate	11D08-N07	3
Fagron	Methyl salicylate	11H30-N14	1
Fagron	Methyl salicylate	12C02-No2	1
Fagron	Methyl salicylate	12D24-N09	1
Fagron	Methyl salicylate	12D27-n05	1
Fagron	Methyl salicylate	12D27-N05	5
Fagron	Methyl salicylate	13/11-N06	4
Fagron	Methyl salicylate	13/11-N060013/364	1
Fagron	Methyl salicylate	13/11-N060025/364	1
Fagron	Methyl salicylate	13D24-N09	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Methyl salicylate	13d24-no9	1
Fagron	Methyl salicylate	13I11-N06	1
Fagron	Methyl salicylate	14D03-B04	1
Fagron	Methyl salicylate	14D03-B04-292643	1
Fagron	Methyl salicylate	14D03-B04-294169	4
Fagron	Methyl salicylate	14D03-B04-294170	1
Fagron	Methyl salicylate	14D03B04301825	2
Fagron	Methyl salicylate	14D03-B04-301825	1
Fagron	Methyl salicylate	15809-B04	1
Fagron	Methyl salicylate	15B09-04-309068	1
Fagron	Methyl salicylate	15B09-B04	1
Fagron	Methyl salicylate	15B09-B04_303941	1
Fagron	Methyl salicylate	15B09-B04-303941	1
Fagron	Methyl salicylate	15H04-B01	2
Fagron	Methyl salicylate	15H04-B01-326798	1
Fagron	Methyl salicylate	16E23-B05	1
Fagron	Methyl salicylate	16e23-b05-332971	1
Fagron	Methyl salicylate	172650-0002	2
Fagron	Methyl salicylate	17H21-B04-338848	1
Fagron	Methyl salicylate	18/01-B01-358359	1
Fagron	Methyl salicylate	18/01-B01-359363	1
Fagron	Methyl salicylate	18B19-B06	1
Fagron	Methyl salicylate	18b19-b06-346255	1
Fagron	Methyl salicylate	18B19-B06-346255	2
Fagron	Methyl salicylate	18I01-B01-354337	1
Fagron	Methyl salicylate	18J01-B01	1
Fagron	Methyl salicylate	18J01-B01-359363	1
Fagron	Methyl salicylate	19061309	1
Fagron	Methyl salicylate	24061714	1
Fagron	Methyl salicylate	30121414	1
Fagron	Methyl salicylate	303941	1
Fagron	Methyl salicylate	711Q-01867	1
Fagron	Methyl salicylate	B03-3646400	1
Fagron	Methyl salicylate	B03-3671005	1
Fagron	Methyl salicylate	RMS1332311	1
Fagron	Methyl salicylate	RMS13332311	1
Fagron	Methyl salicylate	RMS1409712	2
Fargon/Sanacorp	Methyl salicylate	18J01-B01-354337	1
Kögl	Methyl salicylate	157905164116	1
Kögl	Methyl salicylate	1800961	1
Kögl	Methyl salicylate	36202170817	1
L12	Methyl salicylate	18J01-B01-354337	1
PHOENIX 08.05.2014	Methyl salicylate	13I11-N06	1
Phönix	Methyl salicylate	13D24-N09	1

- 297 339 spectra from 1324 *Apo-Ident* customers from a total of 52 914 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Methyl salicylate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Methyl salicylate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	180	0	68 319
Type B	0	120	0	111 193
Type C	0	119	0	297 339

The substance/substance group *Methyl salicylate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.6667 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 94.9580 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Methyl salicylate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Hydroxyethyl salicylate	105.17	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Methyl salicylate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31038	31038	0.00	153.08
31607	31038	5.89	154.57
33275	31038	2.31	154.19
33280	31038	2.72	153.22

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Metronidazole 25% in white petrolatum**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30663-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Metronidazole 25% in white petrolatum

Special notes

When selecting the *Metronidazole 25% in white petrolatum* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Metronidazole 25% in white petrolatum	4	1	13

Second-stage model

For differentiation of the substance/substance group *Metronidazole 25% in white petrolatum* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Metronidazole 25% in white petrolatum*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Metronidazole 25...	12266401	30663	40	1405100
Caelo	Metronidazole 25...	14116801	31316	40	20140411
Caelo	Metronidazole 25...	16063101	32456	40	20160229
Caelo	Metronidazole 25...	16063101	32768	40	20160229
Caelo	Metronidazole 25...	21003218001	35909	50	20211119

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 210 spectra of 5 reference samples from the substance/substance group *Metronidazole 25% in white petrolatum*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.

- 68 289 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Metronidazole 25% in white petrolatum*.

- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Metronidazole 25% in white p...	16249701	33272	40

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 60 spectra from 21 *Apo-Ident* customers from 15 batches from the substance/substance group *Metronidazole 25% in white petrolatum*.

- Among them are spectra of independent samples from 13 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Cael Sanacorp 05.02.2016	Metronidazole 25% in white p...	15207101	1
Caelo	Metronidazole 25% in white p...	1285301	1
Caelo	Metronidazole 25% in white p...	13002801	2
Caelo	Metronidazole 25% in white p...	13077601	3
Caelo	Metronidazole 25% in white p...	13109801	4
Caelo	Metronidazole 25% in white p...	13188901	2
Caelo	Metronidazole 25% in white p...	13296501	3
Caelo	Metronidazole 25% in white p...	14024301	4
Caelo	Metronidazole 25% in white p...	14116801	3
Caelo	Metronidazole 25% in white p...	14209301	1
Caelo	Metronidazole 25% in white p...	14247201	3
Caelo	Metronidazole 25% in white p...	15207101	6
Caelo	Metronidazole 25% in white p...	16063101	10
Caelo	Metronidazole 25% in white p...	16249701	11
celo/Jenne	Metronidazole 25% in white p...	13077601	1
GEHE/26.02.2013	Metronidazole 25% in white p...	12306601	1
Gehe	Metronidazole 25% in white p...	14209301	1
Noweda 20.02.2015	Metronidazole 25% in white p...	14247301	1
Phoenix	Metronidazole 25% in white p...	16249701	1
Sanacorp	Metronidazole 25% in white p...	12306601	1

- 297 398 spectra from 1324 *Apo-Ident* customers from a total of 52 972 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Metronidazole 25% in white petrolatum* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Metronidazole 25% in white petrolatum* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and

incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	210	0	68 289
Type B	0	40	0	111 273
Type C	0	60	0	297 398

The substance/substance group *Metronidazole 25% in white petrolatum* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.1429 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6876 %)	100.0000 % (> 90.0000 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Metronidazole 25% in white petrolatum* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Permethrin 25% solution	39.84	–
Pasta Cordes®	40.56	–
Shea butter, refined	47.43	–
Isopropyl palmitate	55.27	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Metronidazole 25% in white petrolatum* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30663	30663	0.00	47.18
31316	30663	10.45	47.09

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
32456	30663	15.85	48.96
32768	30663	18.85	48.62
35909	30663	25.23	49.71

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Mint oil / Peppermint oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30856-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Mint oil / Peppermint oil; Menthae arvensis aetheroleum partim mentholum depletum; Menthae piperitae aetheroleum; Mint oil; Peppermint oil

Special notes

When selecting the *Mint oil / Peppermint oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Mint oil / Peppermint oil	11	12	395

Second-stage model

For differentiation of the substance/substance group *Mint oil / Peppermint oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Mint oil / Peppermint oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Mint oil	16053503	32474	40	1701393
Caelo	Mint oil	15380507	32476	40	1701394
Caelo	Mint oil	15380507	32484	40	20151116
Caelo	Mint oil	16053503	32780	40	20160309
Caelo	Mint oil	190224	34647	40	20190226*
Bombastus	Peppermint oil	22000609	36193	40	20220203
Caelo	Peppermint oil	12114206	30856	40	20120424
Caelo	Peppermint oil	13303915	31410	40	1502136
Caelo	Peppermint oil	191136	34443	40	20190515*
Euro OTC	Peppermint oil	1312009-01	31294	40	20140130
Euro OTC	Peppermint oil	1512011	31811	60	20151214*
Euro OTC	Peppermint oil	2005001	35063	40	20200615*
Euro OTC	Peppermint oil	2011012	35135	40	20201126*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 540 spectra of 13 reference samples from the substance/substance group *Mint oil / Peppermint oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 11 different batches.

- 67 959 spectra from a total of 1402 batches from further 227 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 490 spectra of 12 reference samples from the substance/substance group *Mint oil / Peppermint oil*.
- Among them are spectra of independent samples from 12 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Mint oil	21001562	36217	40
Caelo	Mint oil	15380509	32781	40
Caelo	Mint oil	16053508	32845	40
Caelo	Mint oil	20003595001	35843	50
Caelo	Peppermint oil	161904	32333	40
Caelo	Peppermint oil	172919	33699	40
Caelo	Peppermint oil	191359	34620	40
Caelo	Peppermint oil	20000648	35023	40
Euro OTC	Peppermint oil	1607018	32468	40
Euro OTC	Peppermint oil	1703032	33229	40
Euro OTC	Peppermint oil	1804008	34089	40
Euro OTC	Peppermint oil	2207007	36364	40

- 110 823 spectra from a total of 2654 batches from further 349 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1512 spectra from 645 *Apo-Ident* customers from 401 batches from the substance/substance group *Mint oil / Peppermint oil*.
- Among them are spectra of independent samples from 391 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Peppermint oil	9183299	1
ACM	Peppermint oil	407000718901021	1
AHD, 29.11.13	Peppermint oil	282542	1
Alliance Healthcare	Peppermint oil	16F01-B03-322190	1
Alliance Healthcare	Peppermint oil	6423-19307	1
Alliance Healthcare	Peppermint oil	I9004746	1
Alliance	Peppermint oil	18000796	1
Alliance	Peppermint oil	56335	1
Allianz Healthcare	Peppermint oil	18221716	1
Anzag ek:13.70EUR 15.08.12	Peppermint oil	270566	1
Anzag	Peppermint oil	11G19N07	1
Anzag	Peppermint oil	16114611	1
Anzag	Peppermint oil	283491	1
Bio-Diät / Phönix	Peppermint oil	20553	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
bombaßtus	Peppermint oil	20004136	1
Bombastus	Peppermint oil	1001311995	1
Bombastus	Peppermint oil	110(18003400)	1
Bombastus	Peppermint oil	14150216	1
Bombastus	Peppermint oil	16114611	1
Bombastus	Peppermint oil	17000387	1
Bombastus	Peppermint oil	17002163	6
Bombastus	Peppermint oil	18000796	6
Bombastus	Peppermint oil	18004277	2
Bombastus	Peppermint oil	18005114	4
Bombastus	Peppermint oil	18006214	2
Bombastus	Peppermint oil	18006246	1
Bombastus	Peppermint oil	18006685	9
Bombastus	Peppermint oil	19000237	1
Bombastus	Peppermint oil	19001155	6
Bombastus	Peppermint oil	19003147	1
Bombastus	Peppermint oil	19003525	1
Bombastus	Mint oil	19003993	1
Bombastus	Mint oil	19004624	1
Bombastus	Peppermint oil	19004746	7
Bombastus	Peppermint oil	19005885	2
Bombastus	Peppermint oil	20001394	1
Bombastus	Peppermint oil	20001965	1
Bombastus	Peppermint oil	20001977	2
Bombastus	Peppermint oil	20004131	3
Bombastus	Peppermint oil	20004136	6
Bombastus	Peppermint oil	21004165	1
Bombastus	Peppermint oil	211227(21004165)	1
Bombastus	Peppermint oil	271257	1
Bombastus	Peppermint oil	274804	1
Bombastus	Peppermint oil	275481	2
Bombastus	Peppermint oil	277504	4
Bombastus	Peppermint oil	277817	2
Bombastus	Peppermint oil	278812	2
Bombastus	Peppermint oil	279930	4
Bombastus	Peppermint oil	280894	1
Bombastus	Peppermint oil	282542	1
Bombastus	Peppermint oil	283491	4
Bombastus	Peppermint oil	283734	1
Bombastus	Peppermint oil	284588	1
Bombastus	Peppermint oil	285571	2
Bombastus	Peppermint oil	285715	2
Bombastus	Peppermint oil	286204	3
Bombastus	Peppermint oil	286376	1
Bombastus	Peppermint oil	287325	1
Bombastus	Peppermint oil	287528	3
Bombastus	Peppermint oil	288086	1
Bombastus	Peppermint oil	288864	2
Bombastus	Peppermint oil	289595	1
Bombastus	Peppermint oil	289675	1
Bombastus	Peppermint oil	290301	6
Bombastus	Peppermint oil	290394	2
Bombastus	Peppermint oil	292138	6
Bombastus	Peppermint oil	292472	7
Bombastus	Peppermint oil	294293	4
Bombastus	Peppermint oil	294802	1
Bombastus	Peppermint oil	295599	3
Bombastus	Peppermint oil	295737	5
Bombastus	Peppermint oil	295985	4
Bombastus	Peppermint oil	296017	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Peppermint oil	297256	6
Bombastus	Peppermint oil	297946	1
Bombastus	Peppermint oil	298969	1
Bombastus	Peppermint oil	299058	4
Bombastus	Peppermint oil	300468	3
Bombastus	Peppermint oil	300843	5
Bombastus	Peppermint oil	302909	1
Bombastus	Peppermint oil	303064	2
Bombastus	Peppermint oil	304515	10
Bombastus	Peppermint oil	305627	2
Bombastus	Peppermint oil	307810	2
Bombastus	Peppermint oil	307854	3
Bombastus	Peppermint oil	309390	3
Bombastus	Peppermint oil	311274	1
Bombastus	Peppermint oil	311547	6
Bombastus	Peppermint oil	60012008	1
Bombastus	Peppermint oil	80312004	1
Bombstus/Sanacorp	Peppermint oil	18006685	1
Caelo	Peppermint oil		2
Caelo	Peppermint oil	10235308	1
Caelo	Peppermint oil	10235317	1
Caelo	Mint oil	1061802	1
Caelo	Peppermint oil	11071312	1
Caelo	Peppermint oil	11124706	1
Caelo	Peppermint oil	11124709	3
Caelo	Peppermint oil	11124710	2
Caelo	Peppermint oil	1118Q-01995	1
Caelo	Peppermint oil	1124709	1
Caelo	Peppermint oil	11287407	6
Caelo	Peppermint oil	11287416	9
Caelo	Peppermint oil	11287419	1
Caelo	Peppermint oil	11287421	5
Caelo	Peppermint oil	12020812	1
Caelo	Peppermint oil	12020815	1
Caelo	Peppermint oil	12114206	17
Caelo	Peppermint oil	12114211	2
Caelo	Peppermint oil	12114219	4
Caelo	Peppermint oil	12114224	2
Caelo	Peppermint oil	12114225	15
Caelo	Peppermint oil	1214206	1
Caelo	Peppermint oil	12180024	1
Caelo	Peppermint oil	12D10-N04	1
Caelo	Peppermint oil	13/04-N01	1
Caelo	Peppermint oil	13105306	1
Caelo	Peppermint oil	13105801	12
Caelo	Peppermint oil	13105905	2
Caelo	Peppermint oil	13241303	8
Caelo	Peppermint oil	1324302	1
Caelo	Peppermint oil	13303903	5
Caelo	Peppermint oil	13303904	6
Caelo	Peppermint oil	13303912	2
Caelo	Peppermint oil	13303914	2
Caelo	Peppermint oil	13303915	14
Caelo	Peppermint oil	1330394904	1
Caelo	Peppermint oil	13318004	4
Caelo	Peppermint oil	13A10-N08	2
Caelo	Peppermint oil	13I04-N01	1
Caelo	Peppermint oil	14150209	7
Caelo	Peppermint oil	14150211	1
Caelo	Peppermint oil	14150214	20

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Peppermint oil	14150215	2
Caelo	Peppermint oil	14150218	2
Caelo	Peppermint oil	14150220	6
Caelo	Peppermint oil	14150221	4
Caelo	Peppermint oil	14150225	12
Caelo	Peppermint oil	14369909	14
Caelo	Peppermint oil	14369910	3
Caelo	Peppermint oil	14369911	3
Caelo	Peppermint oil	1469910	1
Caelo	Peppermint oil	14B03-B40	1
Caelo	Peppermint oil	150415A	1
Caelo	Peppermint oil	15112908	1
Caelo	Peppermint oil	15112909	2
Caelo	Peppermint oil	15126904	1
Caelo	Peppermint oil	15127004	2
Caelo	Peppermint oil	15235504	2
Caelo	Peppermint oil	152555801	1
Caelo	Peppermint oil	15255801	39
Caelo	Peppermint oil	15255805	4
Caelo	Peppermint oil	15255806	1
Caelo	Peppermint oil	15255807	1
Caelo	Peppermint oil	15255811	15
Caelo	Peppermint oil	15255816	30
Caelo	Peppermint oil	15255817	8
Caelo	Peppermint oil	15255829	1
Caelo	Peppermint oil	15363201	3
Caelo	Peppermint oil	15363207	1
Caelo	Peppermint oil	15363214	9
Caelo	Peppermint oil	153663207	1
Caelo	Mint oil	15380512	1
Caelo	Peppermint oil	15383704	2
Caelo	Peppermint oil	15383707	1
Caelo	Peppermint oil	15383713	1
Caelo	Peppermint oil	1538707	1
Caelo	Peppermint oil	15B11-B08-308854	1
Caelo	Mint oil	16053508	1
Caelo	Mint oil	16053514	2
Caelo	Peppermint oil	16114601	1
Caelo	Peppermint oil	16114602	20
Caelo	Peppermint oil	16114603	8
Caelo	Peppermint oil	16114604	2
Caelo	Peppermint oil	16114605	1
Caelo	Peppermint oil	16114607	2
Caelo	Peppermint oil	16114611	29
Caelo	Peppermint oil	16114613	1
Caelo	Peppermint oil	16114619	5
Caelo	Peppermint oil	16114620	1
Caelo	Peppermint oil	16114625	10
Caelo	Peppermint oil	16114627	14
Caelo	Peppermint oil	16114628	5
Caelo	Peppermint oil	16114629	1
Caelo	Peppermint oil	1611602	1
Caelo	Peppermint oil	16190405	6
Caelo	Peppermint oil	17023004	1
Caelo	Peppermint oil	1703032-01	1
Caelo	Peppermint oil	1703032-02	2
Caelo	Mint oil	17134803	1
Caelo	Peppermint oil	1718610	1
Caelo	Peppermint oil	17188609	58
Caelo	Peppermint oil	171886095683	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Peppermint oil	17188610	8
Caelo	Peppermint oil	17188611	2
Caelo	Peppermint oil	17188612	2
Caelo	Peppermint oil	17291901	3
Caelo	Peppermint oil	17364301	2
Caelo	Peppermint oil	17F08-B07-342991	1
Caelo	Peppermint oil	18000796	1
Caelo	Peppermint oil	180009905	1
Caelo	Peppermint oil	1800990	1
Caelo	Peppermint oil	18009905	7
Caelo	Peppermint oil	18009906	1
Caelo	Peppermint oil	18009908	1
Caelo	Peppermint oil	18009909	2
Caelo	Peppermint oil	18009910	24
Caelo	Peppermint oil	18009912	1
Caelo	Peppermint oil	18009914	1
Caelo	Peppermint oil	18047501	5
Caelo	Peppermint oil	1820401	1
Caelo	Peppermint oil	18208401	8
Caelo	Peppermint oil	18208405	4
Caelo	Peppermint oil	18208412	3
Caelo	Peppermint oil	18221702	33
Caelo	Peppermint oil	18221703	12
Caelo	Peppermint oil	18221707	1
Caelo	Peppermint oil	18221712	8
Caelo	Peppermint oil	18221716	16
Caelo	Peppermint oil	18221718	1
Caelo	Peppermint oil	18221719	4
Caelo	Peppermint oil	18221723	10
Caelo	Peppermint oil	18221725	1
Caelo	Peppermint oil	1822179	1
Caelo	Peppermint oil	1891359008	1
Caelo	Peppermint oil	19000776001	4
Caelo	Peppermint oil	19000776002	2
Caelo	Peppermint oil	19000776006	3
Caelo	Peppermint oil	19000776010	3
Caelo	Peppermint oil	19004746	1
Caelo	Mint oil	19022401	2
Caelo	Peppermint oil	191136001	2
Caelo	Peppermint oil	19113601	1
Caelo	Peppermint oil	19113603	3
Caelo	Peppermint oil	191359005	6
Caelo	Peppermint oil	191359006	3
Caelo	Peppermint oil	191359007	32
Caelo	Peppermint oil	19135902	4
Caelo	Peppermint oil	19135903	1
Caelo	Peppermint oil	19135904	1
Caelo	Peppermint oil	19135905	25
Caelo	Peppermint oil	19135907	1
Caelo	Peppermint oil	19135908	2
Caelo	Peppermint oil	20000648	1
Caelo	Peppermint oil	20000648005	1
Caelo	Peppermint oil	20000648006	2
Caelo	Peppermint oil	20000648007	6
Caelo	Peppermint oil	20000648008	16
Caelo	Peppermint oil	20003483001	1
Caelo	Peppermint oil	20003483006	3
Caelo	Peppermint oil	20003483009	1
Caelo	Peppermint oil	20003483014	2
Caelo	Peppermint oil	20003589001	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Peppermint oil	20003589005	1
Caelo	Peppermint oil	20003589006	1
Caelo	Peppermint oil	2000383014	1
Caelo	Peppermint oil	20003991001	4
Caelo	Peppermint oil	20111417	1
Caelo	Peppermint oil	20151112-6	1
Caelo	Peppermint oil	20C16-B07-201867	1
Caelo	Peppermint oil	2112E-01995	1
Caelo	Peppermint oil	2115E-01995	1
Caelo	Peppermint oil	220628(21004165)	1
Caelo	Peppermint oil	22091805	1
Caelo	Peppermint oil	26051806	1
Caelo	Peppermint oil	269560	1
Caelo	Peppermint oil	294293	1
Caelo	Peppermint oil	295985	1
Caelo	Peppermint oil	297256	1
Caelo	Peppermint oil	298969	1
Caelo	Peppermint oil	307839	1
Caelo	Peppermint oil	311547	5
Caelo	Peppermint oil	36/20	1
Caelo	Peppermint oil	3913I-01995	1
Caelo	Peppermint oil	4214U-01995	1
Caelo	Peppermint oil	4517A-01995	1
Caelo	Peppermint oil	46/AD1	1
Caelo	Peppermint oil	5170717	1
Caelo	Peppermint oil	52/AKD15	1
Caelo	Peppermint oil	688901	2
Caelo	Peppermint oil	8061701	1
Caelo	Peppermint oil	8092001	1
Caelo	Peppermint oil	9322703	1
Caelo	Peppermint oil	C101761	1
Caeo	Peppermint oil	14150209	1
Caesar & Loretz GmbH / ...	Peppermint oil	18221702	1
Caesar & Loretz GmbH, 4...	Peppermint oil	12184601	2
Caesar & Loretz GmbH/ K...	Peppermint oil	20000648008	1
Caesar & Loretz GmbH/ P...	Peppermint oil	18208401	1
Caesar & Loretz GmbH/ P...	Peppermint oil	18208405	1
Caesar & Loretz GmbH/ P...	Peppermint oil	19000776001	1
Caesar & Loretz GmbH/Fi...	Peppermint oil	18221716	1
Caesar & Loretz GmbH/Gehe	Peppermint oil	19135905	1
Caesar & Loretz GmbH/Gehe	Peppermint oil	20003589001	1
Caesar & Loretz GmbH/Gö...	Peppermint oil	19113603	1
Caesar & Loretz GmbH/Je...	Peppermint oil	18221702	2
Caesar & Loretz GmbH/No...	Peppermint oil	18221723	1
Caesar & Loretz GmbH/No...	Peppermint oil	19113601	1
Caesar & Loretz GmbH/No...	Peppermint oil	20000648008	1
Caesar & Loretz GmbH/No...	Peppermint oil	20003795008	1
Caesar & Loretz GmbH/phö	Peppermint oil	19000776002	1
Caesar & Loretz GmbH/Ph...	Peppermint oil	18221712	2
Caesar & Loretz GmbH/Ph...	Peppermint oil	18221716	1
Caesar & Loretz GmbH/Ph...	Peppermint oil	19135905	1
Caesar & Loretz GmbH/Ph...	Peppermint oil	20003795005	1
Caesar & Loretz GmbH/Sa...	Peppermint oil	191359005	1
Caesar & Loretz GmbH/Sa...	Peppermint oil	20000648008	2
Caesar & Loretz GmbH	Peppermint oil	18208405	2
Caesar & Loretz GmbH	Peppermint oil	18208412	1
Caesar & Loretz GmbH	Peppermint oil	18221702	14
Caesar & Loretz GmbH	Peppermint oil	18221703	3
Caesar & Loretz GmbH	Peppermint oil	18221716	6
Caesar & Loretz GmbH	Peppermint oil	18221718	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Peppermint oil	18221722	1
Caesar & Loretz GmbH	Peppermint oil	18221723	3
Caesar & Loretz GmbH	Peppermint oil	18221724	1
Caesar & Loretz GmbH	Peppermint oil	19000776006	1
Caesar & Loretz GmbH	Peppermint oil	19000776010	2
Caesar & Loretz GmbH	Mint oil	190494002	1
Caesar & Loretz GmbH	Peppermint oil	19113601	1
Caesar & Loretz GmbH	Peppermint oil	19113603	1
Caesar & Loretz GmbH	Peppermint oil	191359007	3
Caesar & Loretz GmbH	Peppermint oil	19135902	2
Caesar & Loretz GmbH	Peppermint oil	19135905	5
Caesar & Loretz GmbH	Peppermint oil	19135909	1
Caesar & Loretz GmbH	Peppermint oil	20000648007	2
Caesar & Loretz GmbH	Peppermint oil	20000648008	11
Caesar & Loretz GmbH	Peppermint oil	20003483006	5
Caesar & Loretz GmbH	Peppermint oil	20003483009	1
Caesar & Loretz GmbH	Peppermint oil	20003589001	3
Caesar & Loretz	Peppermint oil	16114602	1
Caesar/Noweda	Peppermint oil	13303915	1
Caesar/Noweda	Peppermint oil	15255811	1
Canea Pharma/ Anzag	Mint oil	140519	1
Cealo/Noweda	Peppermint oil	1804008-01	1
Eigenherstellung Defektur	Peppermint oil	6082101	1
EuRho/Noweda	Peppermint oil	17291901	1
EuRho	Peppermint oil	1404038-01	1
Euro OTC	Peppermint oil	1069396	2
Euro OTC	Peppermint oil	1303015-01	2
Euro OTC	Peppermint oil	1404038-01	2
Euro OTC	Peppermint oil	1410005-01	1
Euro OTC	Peppermint oil	1504017-01	3
Euro OTC	Peppermint oil	1512011-01	5
Euro OTC	Peppermint oil	15255816	1
Euro OTC	Peppermint oil	1607018-01	3
Euro OTC	Peppermint oil	1607018-02	2
Euro OTC	Peppermint oil	16114627	1
Euro OTC	Peppermint oil	170303	1
Euro OTC	Peppermint oil	1703030-02	1
Euro OTC	Peppermint oil	1703032-01	3
Euro OTC	Peppermint oil	1703032-02	1
Euro OTC	Peppermint oil	1804008	1
Euro OTC	Peppermint oil	1804008-01	3
Euro OTC	Peppermint oil	1804008-02	2
Euro OTC	Peppermint oil	1904746	1
Euro OTC	Peppermint oil	190920309	1
Euro OTC	Peppermint oil	2005001-01	2
Euro OTC	Peppermint oil	2005001-02	1
Euro OTC	Peppermint oil	2011012-01	1
Euro OTC	Peppermint oil	909185	1
Euro/Phönix	Peppermint oil	1703032-02	1
Euro/Sana	Peppermint oil	2005001-01	1
Fagron	Peppermint oil		1
Fagron	Peppermint oil	100030-N05	1
Fagron	Peppermint oil	1008442	3
Fagron	Peppermint oil	1057683	2
Fagron	Peppermint oil	1142326	2
Fagron	Peppermint oil	1192556	1
Fagron	Peppermint oil	11A05-N02	1
Fagron	Peppermint oil	11C14-N06	2
Fagron	Peppermint oil	11F09-N12	1
Fagron	Peppermint oil	11G19-N07	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Peppermint oil	12114206	1
Fagron	Peppermint oil	1275880	1
Fagron	Peppermint oil	12D10-N04	7
Fagron	Peppermint oil	12I19-N09	1
Fagron	Peppermint oil	13/04-N10	2
Fagron	Peppermint oil	1304-N01	2
Fagron	Peppermint oil	13A10N08	2
Fagron	Peppermint oil	13A10-N08	5
Fagron	Peppermint oil	13A10-N8	1
Fagron	Peppermint oil	13I04-N01	7
Fagron	Peppermint oil	13i04-N10	1
Fagron	Peppermint oil	13I04-N10	4
Fagron	Peppermint oil	13l04-N10	1
Fagron	Peppermint oil	14B03B40	1
Fagron	Peppermint oil	14B03-B40	3
Fagron	Peppermint oil	14B03-B40-295665	3
Fagron	Peppermint oil	1512011-01	1
Fagron	Peppermint oil	15255801	1
Fagron	Peppermint oil	15363207	1
Fagron	Peppermint oil	15B11-B08	1
Fagron	Peppermint oil	15B11-B08-304115	1
Fagron	Peppermint oil	15B11B08304117	1
Fagron	Peppermint oil	15B11-B08-304117	1
Fagron	Peppermint oil	15B11-B08-308854	1
Fagron	Peppermint oil	15G08-B99-312672	1
Fagron	Peppermint oil	15K27-B01	1
Fagron	Peppermint oil	15K27-B01-317773	4
Fagron	Peppermint oil	16F01-B03	1
Fagron	Peppermint oil	16F01-B03-322189	1
Fagron	Peppermint oil	16F01-B03-322190	3
Fagron	Peppermint oil	16F01-B03-322818	4
Fagron	Peppermint oil	16F01-B03-326341	1
Fagron	Peppermint oil	16F01-B03-326342	6
Fagron	Peppermint oil	17F08-B07	4
Fagron	Peppermint oil	17F08-B07-139332	1
Fagron	Peppermint oil	17F08-B07-336043	3
Fagron	Peppermint oil	17F08-B07-336086	1
Fagron	Peppermint oil	17F08-B07-337476	1
Fagron	Peppermint oil	17F08-B07-339333	1
Fagron	Peppermint oil	17F08-B07-342991	2
Fagron	Peppermint oil	17F0-B07-336043	1
Fagron	Peppermint oil	17Fo8-B07-336043	1
Fagron	Peppermint oil	18221702	1
Fagron	Peppermint oil	18B08-B06	2
Fagron	Peppermint oil	18B08-B06-352613	1
Fagron	Peppermint oil	18B08-B06-352613	1
Fagron	Peppermint oil	18B08-B06-353685	2
Fagron	Peppermint oil	18B08-B06-354448	1
Fagron	Peppermint oil	18B08-B06-354449	2
Fagron	Peppermint oil	18B0B8-B06-352613	1
Fagron	Peppermint oil	19C14-B12	1
Fagron	Peppermint oil	19C14B12191227	1
Fagron	Peppermint oil	19C14-B12-191227	6
Fagron	Peppermint oil	19C24B12191227	1
Fagron	Peppermint oil	19J21-B14-193446	5
Fagron	Peppermint oil	20A14-B01-197082	7
Fagron	Peppermint oil	20C16-B07-201867	1
Fagron	Peppermint oil	250214PJK02	1
Fagron	Peppermint oil	267849	1
Fagron	Peppermint oil	285571	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Peppermint oil	304515	1
Fagron	Peppermint oil	688901	1
Fagron	Peppermint oil	700599	1
Fagron	Peppermint oil	809007000	1
Fagron	Peppermint oil	8574769	1
Fagron	Peppermint oil	934920	1
Fagron	Peppermint oil	B01-1970802	2
Fargon	Peppermint oil		1
Fiebig	Peppermint oil	16114629	1
Fiebig	Peppermint oil	17188611	2
Fiebig	Peppermint oil	20004136	1
Fiebig	Peppermint oil	21004204	1
Fiebig	Peppermint oil	21022172/1	1
Gatt-Koller	Peppermint oil	1802889	1
GEHE 06.06.2014	Peppermint oil	283491	1
Gehe	Peppermint oil	13105801	1
Gehe	Peppermint oil	13303903	1
Gehe	Peppermint oil	16114602	1
GEHE	Peppermint oil	17188609	2
GEHE	Peppermint oil	17F08-B07-324991	2
Gehe	Peppermint oil	18009910	1
Gehe	Peppermint oil	287528	1
Gehe	Peppermint oil	292138	1
Gehe	Peppermint oil	299058	1
Gehe	Peppermint oil	305627	3
Gehe	Peppermint oil	60012008	1
Hänseler	Peppermint oil		4
Hedinger/Gehe	Peppermint oil	13105801	1
Hedinger	Peppermint oil	12114206	1
hochhaus-Apotheke	Peppermint oil	16114603	1
Ichthyol GmbH/Noweda	Peppermint oil	16114611	1
jenne	Peppermint oil	2011012	1
Kehr	Peppermint oil	17188609	1
Kögl	Peppermint oil	1801774	1
L12	Peppermint oil	16114602	2
L12	Peppermint oil	16114625	3
L30	Peppermint oil	17188609	2
Noweda 07.11.2019	Peppermint oil	18006685	1
Noweda 07.11.2019	Peppermint oil	18221723	1
Noweda	Peppermint oil	12114206	1
Noweda	Peppermint oil	15255801	1
Noweda	Peppermint oil	17188609	1
Noweda	Peppermint oil	18047501	1
Noweda	Peppermint oil	18208405	1
Noweda	Peppermint oil	18221702	3
Noweda	Peppermint oil	18221716	1
Noweda	Peppermint oil	191359005	1
Pharmadrog / Anzag	Mint oil	L005420	1
phoenix 27.2.12	Peppermint oil	267518	1
Phoenix	Peppermint oil	12114211	1
Phoenix	Peppermint oil	16F01-B03-326341	1
Phoenix	Peppermint oil	18221702	1
Phoenix	Peppermint oil	191359007	1
Phönix Gotha	Peppermint oil	14150225	1
phönix	Peppermint oil		1
Phönix	Peppermint oil	11124710	1
Phönix	Peppermint oil	13303915	1
Phönix	Peppermint oil	18000796	1
Phönix	Peppermint oil	191359005	1
Phönix	Peppermint oil	20003483014	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Primavera/Sanacorp	Peppermint oil	202C25	1
Primavera	Peppermint oil	367G26	1
Primavera	Peppermint oil	374826	1
Primavera	Peppermint oil	5409142	1
Primavera	Peppermint oil	649B25	1
Primavera	Peppermint oil	7703L22	1
Recordati Pharma GmbH	Mint oil	BS04	1
Rödler	Mint oil	G838	1
Sanacorp, 16.08.2016, 7...	Peppermint oil	15255816	2
Sanacorp	Peppermint oil	11287416	1
Sanacorp	Peppermint oil	12114206	1
Sanacorp	Peppermint oil	12114219	1
Sanacorp	Peppermint oil	13303915	3
sanacorp	Peppermint oil	13I04-N01	1
sanacorp	Peppermint oil	14150214	1
Sanacorp	Peppermint oil	16114625	2
Sanacorp	Peppermint oil	17002163	1
Sanacorp	Peppermint oil	17188609	3
Sanacorp	Peppermint oil	18003400	1
Sanacorp	Peppermint oil	18004277	1
Sanacorp	Peppermint oil	18005114	1
Sanacorp	Peppermint oil	18009908	2
Sanacorp	Peppermint oil	1804008-02	2
Sanacorp	Peppermint oil	18221702	2
Sanacorp	Peppermint oil	20000648008	1
Sanacorp	Peppermint oil	280894	1
Sanacorp	Peppermint oil	309390	2
Sanacorp	Peppermint oil	311547	1
Sanacorp	Peppermint oil	47/AKD19	1
Sanacrop	Peppermint oil	19135905	1
Sensient	Peppermint oil	C9982	1
Spangro 08.11.2018	Mint oil	17358002	2
Spangro 18.01.2019	Peppermint oil	18221702	1
Taoasis GmbH	Peppermint oil	534640-110874	1
Taoasis GmbH	Peppermint oil	6140-9015	1
Taoasis/Phönix	Peppermint oil	32724-118746	1
Taoasis	Peppermint oil	104959-411	1
Taoasis	Peppermint oil	13486-116309	1
Taoasis	Peppermint oil	31145-118741	1
Taoasis	Peppermint oil	37979-120290	1
Taoasis	Peppermint oil	501319-105273	1
Taoasis	Peppermint oil	512777-107965	1
Taoasis	Peppermint oil	515574-107811	1
Taoasis	Peppermint oil	525728-109630	1
Taoasis	Peppermint oil	539490-111157	2
Taoasis	Peppermint oil	548992-112346	3
Taoasis	Peppermint oil	6140-9015	1
Taoasis	Peppermint oil	6316-115825	1
Taoasis	Peppermint oil	75404-127882	1
Taoasis	Peppermint oil	79725-128653	3
Taoasis	Peppermint oil	88914-2568	1
Taomed	Peppermint oil		1

- 295 946 spectra from 1324 *Apo-Ident* customers from a total of 52 592 batches from a further 342 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Validation results

The validation runs checked whether the substance/substance group *Mint oil / Peppermint oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Mint oil / Peppermint oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	540	0	67 959
Type B	0	490	0	110 823
Type C	0	1498	14	295 946

The substance/substance group *Mint oil / Peppermint oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 98.8889 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.7755 %)
Type C	100.0000 % (> 99.6875 %)	99.0741 % (> 98.8757 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Mint oil / Peppermint oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Juniper oil	27.97	–
Petroleum ether DAB	30.75	–
Dwarf pine oil	31.85	–
Verbena oil, nature-identical	33.45	–
Turpentine oil	36.29	–
Cedar wood oil	36.53	–
Cypress oil	37.10	–
Tea tree oil	37.36	–
Myrtle oil	37.64	–
Matricaria oil, rich in (-)-alpha-bisa...	39.60	–
Citronella oil	41.72	–
Petroleum oil, not for internal use	41.87	–
Juniper wood oil	44.63	–
Geranium oil, genuine	46.53	–
Citric oil	46.61	–
Pine silvestris oil	48.12	–
Caraway oil	48.92	–
Acorus oil	49.55	–
all-rac-α-Tocopherol	50.25	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Mint oil / Peppermint oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30856	31410	11.41	63.84
31294	31811	1.96	56.35
31410	31410	0.00	65.52
31811	31811	0.00	56.64
32474	32474	0.00	53.88
32476	32476	0.00	54.69
32484	32476	3.81	55.64
32780	32474	3.89	51.68
34443	34443	0.00	32.88
34647	34647	0.00	57.67
35063	35063	0.00	62.30
35135	35135	0.00	54.07
36193	32474	8.55	53.47

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Myrtle oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31836-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Myrtle oil

Special notes

When selecting the *Myrtle oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Myrtle oil	4	3	6

Second-stage model

For differentiation of the substance/substance group *Myrtle oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Myrtle oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Myrtle oil	15225102	31836	60	1606483
Caelo	Myrtle oil	15225103	32182	40	20150721
Caelo	Myrtle oil	15225102	32349	40	20150721
Caelo	Myrtle oil	182822	34449	40	20181030*
Caelo	Myrtle oil	183298	34458	40	20190122*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 220 spectra of 5 reference samples from the substance/substance group *Myrtle oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 279 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Myrtle oil*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Myrtle oil	17227302	33879	40
Caelo	Myrtle oil	173184	34082	40
Caelo	Myrtle oil	21001956003	35910	50

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 6 spectra from 4 *Apo-Ident* customers from 6 batches from the substance/substance group *Myrtle oil*.
- Among them are spectra of independent samples from 6 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Myrtle oil	15225104	1
Caelo	Myrtle oil	16296202	1
Caelo	Myrtle oil	183298001	1
Caelo	Myrtle oil	20000370001	1
Taoasis	Myrtle oil	2018101113-9208	1
Taoasis	Myrtle oil	2019109716-13378	1

- 297 452 spectra from 1324 *Apo-Ident* customers from a total of 52 981 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Myrtle oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Myrtle oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	220	0	68 279
Type B	0	130	0	111 183
Type C	0	5	1	297 452

The substance/substance group *Myrtle oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.2727 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6889 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Myrtle oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Turpentine oil	17.21	–
Rosemary oil	20.55	–
Juniper wood oil	21.30	–
Eucalyptus oil	22.99	–
Cypress oil	24.38	–
Cajeput (essentiel oil)	25.41	–
Sage oil	29.04	–
Verbena oil, nature-identical	34.79	–
Spruce needle oil	42.78	–
Dwarf pine oil	43.83	–
Juniper oil	44.55	–
Cineole	46.06	–
Acorus oil	46.22	–
Peppermint oil	49.14	–
Cedar wood oil	52.69	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Myrtle oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31836	31836	0.00	24.72
32182	31836	2.36	26.42
32349	31836	2.82	26.56

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
34449	34449	0.00	24.38
34458	34458	0.00	25.00

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Non-ionic hydrophil ointment**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30463-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Non-ionic hydrophil ointment; Non-ionic hydrophil ointment, conserved; Unguentum emulsificans nonionicum aquosum DAB

Special notes

When selecting the *Non-ionic hydrophil ointment* substance/substance group, the following information is displayed to the user:

- Advice for the identification of Non-ionic hydrophil ointment DAB: Improper storage of samples can result in identification problems. Please homogenises the sample and let it adapt to room temperature before the measurement.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Non-ionic hydrophil ointment	17	30	324

Second-stage model

For differentiation of the substance/substance group *Non-ionic hydrophil ointment* the following second-stage model is used:

- Submodel 06

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Non-ionic hydrophil ointment*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Non-ionic hydrop...	295368	31749	60	20150625
Bombastus	Non-ionic hydrop...	300481	32105	40	20160225
Bombastus	Non-ionic hydrop...	300481	32726	40	20160225
Caelo	Non-ionic hydrop...	13138001	31001	40	20130531
Caelo	Non-ionic hydrop...	13332901	31227	40	20131104
Caelo	Non-ionic hydrop...	13333101	31451	40	1509156
Caelo	Non-ionic hydrop...	15151601	31748	60	9129
Caelo	Non-ionic hydrop...	161042	32088	40	20160411*
Caelo	Non-ionic hydrop...	170744	33360	40	20170413*
Caelo	Non-ionic hydrop...	172006	34010	40	20170810*
Caelo	Non-ionic hydrop...	20001244	34856	40	20200504*
Caelo	Non-ionic hydrop...	19000474	34857	40	20191211*
Caelo	Non-ionic hydrop...	20001755	35100	40	20200710*
Caelo	Non-ionic hydrop...	20003450	35159	40	20210106*
Caelo	Non-ionic hydrop...	21001432	35526	50	20210518*
Caelo	Non-ionic hydrop...	21002019	35663	50	20210803*
Caelo	Non-ionic hydrop...	21003146	35912	40	20211203*
Caelo	Non-ionic hydrop...	21003814	35913	40	20211203*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 780 spectra of 18 reference samples from the substance/substance group *Non-ionic hydrophil ointment*. These samples are listed above in the *calibration samples* section. The reference samples come from 17 different batches.

- 67 719 spectra from a total of 1396 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 1520 spectra of 39 reference samples from the substance/substance group *Non-ionic hydrophil ointment*.

- Among them are spectra of independent samples from 30 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Non-ionic hydrophil ointment	22001261	36205	40
Caelo	Non-ionic hydrophil ointment	153446	32077	40
Caelo	Non-ionic hydrophil ointment	153447	32078	40
Caelo	Non-ionic hydrophil ointment	153463	32084	40
Caelo	Non-ionic hydrophil ointment	161045	32085	40
Caelo	Non-ionic hydrophil ointment	161041	32087	40
Caelo	Non-ionic hydrophil ointment	153465	32106	40
Caelo	Non-ionic hydrophil ointment	160438	32107	40
Caelo	Non-ionic hydrophil ointment	161043	32110	40
Caelo	Non-ionic hydrophil ointment	161044	32112	40
Caelo	Non-ionic hydrophil ointment	161735	32417	40
Caelo	Non-ionic hydrophil ointment	161736	32418	40
Caelo	Non-ionic hydrophil ointment	161793	32419	40
Caelo	Non-ionic hydrophil ointment	161794	32421	40
Caelo	Non-ionic hydrophil ointment	162348	32488	40
Caelo	Non-ionic hydrophil ointment	162349	32489	40
Caelo	Non-ionic hydrophil ointment	162350	32490	40
Caelo	Non-ionic hydrophil ointment	170866	33361	40
Caelo	Non-ionic hydrophil ointment	170745	33362	40
Caelo	Non-ionic hydrophil ointment	170865	33363	40
Caelo	Non-ionic hydrophil ointment	170742	33366	40
Caelo	Non-ionic hydrophil ointment	170746	33367	40
Caelo	Non-ionic hydrophil ointment	170743	33369	40
Caelo	Non-ionic hydrophil ointment	171510	34009	40
Caelo	Non-ionic hydrophil ointment	172946	34011	40
Caelo	Non-ionic hydrophil ointment	181079	34154	40
Caelo	Non-ionic hydrophil ointment	182536	34358	40
Caelo	Non-ionic hydrophil ointment	22000338	36255	40
Caelo	Non-ionic hydrophil ointment	22002104	36412	40
Caelo	Non-ionic hydrophil ointment	22002105	36413	10
Caelo	Non-ionic hydrophil ointment	161041	32108	40
Caelo	Non-ionic hydrophil ointment	161042	32109	30
Caelo	Non-ionic hydrophil ointment	161043	32111	40
Caelo	Non-ionic hydrophil ointment	161044	32113	40
Caelo	Non-ionic hydrophil ointment	161045	32114	40
Caelo	Non-ionic hydrophil ointment	161793	32420	40
Caelo	Non-ionic hydrophil ointment	170744	33364	40
Caelo	Non-ionic hydrophil ointment	170865	33365	40
Caelo	Non-ionic hydrophil ointment	170866	33368	40

- 109 793 spectra from a total of 2634 batches from further 350 substances. These spectra were

recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1984 spectra from 588 *Apo-Ident* customers from 333 batches from the substance/substance group *Non-ionic hydrophil ointment*.
- Among them are spectra of independent samples from 324 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
aeloc	Non-ionic hydrophil ointment	19177503	1
AHD	Non-ionic hydrophil ointment	14069001	3
AHD	Non-ionic hydrophil ointment	16104201	1
AHD	Non-ionic hydrophil ointment	20001244002	1
AHD	Non-ionic hydrophil ointment	308111	1
Alliance Healthcare	Non-ionic hydrophil ointment	18107901	1
Berkel AHK	Non-ionic hydrophil ointment	13332901	3
Berkel AHK	Non-ionic hydrophil ointment	13333101	2
Berkel AHK	Non-ionic hydrophil ointment	14068601	2
Berkel AHK	Non-ionic hydrophil ointment	15002901	6
bom	Non-ionic hydrophil ointment	286003	1
Bomb/Gehe	Non-ionic hydrophil ointment	301280	1
BOMBAST/Noweda	Non-ionic hydrophil ointment	21001478	1
Bombastu/Sanacorp	Non-ionic hydrophil ointment	303640	1
Bombastus	Non-ionic hydrophil ointment		1
Bombastus	Non-ionic hydrophil ointment	160905UEN	1
Bombastus	Non-ionic hydrophil ointment	161220NHC/301280	1
Bombastus	Non-ionic hydrophil ointment	17001324	1
Bombastus	Non-ionic hydrophil ointment	17001326	15
Bombastus	Non-ionic hydrophil ointment	17086701	1
Bombastus	Non-ionic hydrophil ointment	170905NHC/308112	1
Bombastus	Non-ionic hydrophil ointment	171114NHC/308111	1
Bombastus	Non-ionic hydrophil ointment	171128NHC/308111	1
Bombastus	Non-ionic hydrophil ointment	17200601	2
Bombastus	Non-ionic hydrophil ointment	172946002	1
Bombastus	Non-ionic hydrophil ointment	18001523	3
Bombastus	Non-ionic hydrophil ointment	18001524	16
Bombastus	Non-ionic hydrophil ointment	18002338	1
Bombastus	Non-ionic hydrophil ointment	18002339	14
Bombastus	Non-ionic hydrophil ointment	18003691	3
Bombastus	Non-ionic hydrophil ointment	18004046	1
Bombastus	Non-ionic hydrophil ointment	18004817	3
Bombastus	Non-ionic hydrophil ointment	18004818	9
Bombastus	Non-ionic hydrophil ointment	18006046	4
Bombastus	Non-ionic hydrophil ointment	180308NHC/308108	1
Bombastus	Non-ionic hydrophil ointment	18200801	1
Bombastus	Non-ionic hydrophil ointment	19000785	1
Bombastus	Non-ionic hydrophil ointment	19000786	4
Bombastus	Non-ionic hydrophil ointment	19000787	8
Bombastus	Non-ionic hydrophil ointment	190022323	1
Bombastus	Non-ionic hydrophil ointment	19002322	4
Bombastus	Non-ionic hydrophil ointment	19002323	8
Bombastus	Non-ionic hydrophil ointment	19004155	3
Bombastus	Non-ionic hydrophil ointment	19004156	12

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Non-ionic hydrophil ointment	19005022	6
Bombastus	Non-ionic hydrophil ointment	19005914	7
Bombastus	Non-ionic hydrophil ointment	20001176	2
Bombastus	Non-ionic hydrophil ointment	20001177	11
Bombastus	Non-ionic hydrophil ointment	20002609	3
Bombastus	Non-ionic hydrophil ointment	20002610	3
Bombastus	Non-ionic hydrophil ointment	20002611	5
Bombastus	Non-ionic hydrophil ointment	20002612	5
Bombastus	Non-ionic hydrophil ointment	20002612r	1
Bombastus	Non-ionic hydrophil ointment	20003239	7
Bombastus	Non-ionic hydrophil ointment	20003240	6
Bombastus	Non-ionic hydrophil ointment	20004288	9
Bombastus	Non-ionic hydrophil ointment	20004876	2
Bombastus	Non-ionic hydrophil ointment	20004877	5
Bombastus	Non-ionic hydrophil ointment	21001476	6
Bombastus	Non-ionic hydrophil ointment	21001477	1
Bombastus	Non-ionic hydrophil ointment	21001478	4
Bombastus	Non-ionic hydrophil ointment	21002584	4
Bombastus	Non-ionic hydrophil ointment	21002585	3
Bombastus	Non-ionic hydrophil ointment	21002586	2
Bombastus	Non-ionic hydrophil ointment	21004565	4
Bombastus	Non-ionic hydrophil ointment	22001261	1
Bombastus	Non-ionic hydrophil ointment	22001262	1
Bombastus	Non-ionic hydrophil ointment	266631	2
Bombastus	Non-ionic hydrophil ointment	267625	3
Bombastus	Non-ionic hydrophil ointment	268754	2
Bombastus	Non-ionic hydrophil ointment	271973	1
Bombastus	Non-ionic hydrophil ointment	271976	1
Bombastus	Non-ionic hydrophil ointment	271977	1
Bombastus	Non-ionic hydrophil ointment	271981	2
Bombastus	Non-ionic hydrophil ointment	272063	3
Bombastus	Non-ionic hydrophil ointment	275256	1
Bombastus	Non-ionic hydrophil ointment	275259	2
Bombastus	Non-ionic hydrophil ointment	275260	2
Bombastus	Non-ionic hydrophil ointment	278694	2
Bombastus	Non-ionic hydrophil ointment	280909	3
Bombastus	Non-ionic hydrophil ointment	282902	1
Bombastus	Non-ionic hydrophil ointment	282903	4
Bombastus	Non-ionic hydrophil ointment	282904	3
Bombastus	Non-ionic hydrophil ointment	286001	1
Bombastus	Non-ionic hydrophil ointment	286002	2
Bombastus	Non-ionic hydrophil ointment	286003	6
Bombastus	Non-ionic hydrophil ointment	288042	3
Bombastus	Non-ionic hydrophil ointment	288043	6
Bombastus	Non-ionic hydrophil ointment	288044	6
Bombastus	Non-ionic hydrophil ointment	290281	1
Bombastus	Non-ionic hydrophil ointment	290283	7
Bombastus	Non-ionic hydrophil ointment	293401	1
Bombastus	Non-ionic hydrophil ointment	293402	3
Bombastus	Non-ionic hydrophil ointment	293403	3
Bombastus	Non-ionic hydrophil ointment	295367	2
Bombastus	Non-ionic hydrophil ointment	295368	6
Bombastus	Non-ionic hydrophil ointment	296801	4
Bombastus	Non-ionic hydrophil ointment	296802	2
Bombastus	Non-ionic hydrophil ointment	296803	7
Bombastus	Non-ionic hydrophil ointment	297178	1
Bombastus	Non-ionic hydrophil ointment	297633	2
Bombastus	Non-ionic hydrophil ointment	297634	3
Bombastus	Non-ionic hydrophil ointment	300479	6
Bombastus	Non-ionic hydrophil ointment	300480	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Non-ionic hydrophil ointment	300481	8
Bombastus	Non-ionic hydrophil ointment	301279	3
Bombastus	Non-ionic hydrophil ointment	301280	8
Bombastus	Non-ionic hydrophil ointment	303640	14
Bombastus	Non-ionic hydrophil ointment	303641	4
Bombastus	Non-ionic hydrophil ointment	303642	8
Bombastus	Non-ionic hydrophil ointment	303643	5
Bombastus	Non-ionic hydrophil ointment	303644	4
Bombastus	Non-ionic hydrophil ointment	306522	12
Bombastus	Non-ionic hydrophil ointment	308108	7
Bombastus	Non-ionic hydrophil ointment	308109	2
Bombastus	Non-ionic hydrophil ointment	308110	1
Bombastus	Non-ionic hydrophil ointment	308111	11
Bombastus	Non-ionic hydrophil ointment	308112	9
Bombastus	Non-ionic hydrophil ointment	311097	6
Bombastus	Non-ionic hydrophil ointment	311098	18
Bombastus	Non-ionic hydrophil ointment	314098	1
Bombastus	Non-ionic hydrophil ointment	600807	1
Bombastus	Non-ionic hydrophil ointment	60080702	1
Bombastus	Non-ionic hydrophil ointment	6861335	1
Bombastus	Non-ionic hydrophil ointment	U-070920-2	1
Bombasus, Noweda	Non-ionic hydrophil ointment	272063	1
Caelo	Non-ionic hydrophil ointment		3
Caelo	Non-ionic hydrophil ointment	11273001	1
Caelo	Non-ionic hydrophil ointment	11273303	1
Caelo	Non-ionic hydrophil ointment	11357801	1
Caelo	Non-ionic hydrophil ointment	12086802	1
Caelo	Non-ionic hydrophil ointment	12086901	2
Caelo	Non-ionic hydrophil ointment	12086902	1
Caelo	Non-ionic hydrophil ointment	12087001	3
Caelo	Non-ionic hydrophil ointment	12155801	1
Caelo	Non-ionic hydrophil ointment	12155901	5
Caelo	Non-ionic hydrophil ointment	12156101	2
Caelo	Non-ionic hydrophil ointment	12223301	1
Caelo	Non-ionic hydrophil ointment	12223501	4
Caelo	Non-ionic hydrophil ointment	12223601	3
Caelo	Non-ionic hydrophil ointment	12223602	1
Caelo	Non-ionic hydrophil ointment	12352801	6
Caelo	Non-ionic hydrophil ointment	12352901	3
Caelo	Non-ionic hydrophil ointment	12353001	1
Caelo	Non-ionic hydrophil ointment	130450401	1
Caelo	Non-ionic hydrophil ointment	13045102	1
Caelo	Non-ionic hydrophil ointment	13045201	3
Caelo	Non-ionic hydrophil ointment	13045401	4
Caelo	Non-ionic hydrophil ointment	13045501	3
Caelo	Non-ionic hydrophil ointment	13045601	2
Caelo	Non-ionic hydrophil ointment	13137801	1
Caelo	Non-ionic hydrophil ointment	13137901	1
Caelo	Non-ionic hydrophil ointment	13138001	14
Caelo	Non-ionic hydrophil ointment	13138101	8
Caelo	Non-ionic hydrophil ointment	13138201	4
Caelo	Non-ionic hydrophil ointment	1318001	1
Caelo	Non-ionic hydrophil ointment	13263301	2
Caelo	Non-ionic hydrophil ointment	13263401	1
Caelo	Non-ionic hydrophil ointment	13263501	7
Caelo	Non-ionic hydrophil ointment	13263601	3
Caelo	Non-ionic hydrophil ointment	13263701	4
Caelo	Non-ionic hydrophil ointment	13263801	2
Caelo	Non-ionic hydrophil ointment	13263902	3
Caelo	Non-ionic hydrophil ointment	1326501	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Non-ionic hydrophil ointment	1333101	1
Caelo	Non-ionic hydrophil ointment	13332901	8
Caelo	Non-ionic hydrophil ointment	13333001	3
Caelo	Non-ionic hydrophil ointment	13333101	10
Caelo	Non-ionic hydrophil ointment	13333201	2
Caelo	Non-ionic hydrophil ointment	13333301	3
Caelo	Non-ionic hydrophil ointment	13333401	4
Caelo	Non-ionic hydrophil ointment	13333501	5
Caelo	Non-ionic hydrophil ointment	14051806	1
Caelo	Non-ionic hydrophil ointment	14068401	1
Caelo	Non-ionic hydrophil ointment	14068601	8
Caelo	Non-ionic hydrophil ointment	14068701	2
Caelo	Non-ionic hydrophil ointment	14068801	2
Caelo	Non-ionic hydrophil ointment	14068901	2
Caelo	Non-ionic hydrophil ointment	14069001	1
Caelo	Non-ionic hydrophil ointment	14176502	1
Caelo	Non-ionic hydrophil ointment	14221301	1
Caelo	Non-ionic hydrophil ointment	14221401	6
Caelo	Non-ionic hydrophil ointment	14221501	3
Caelo	Non-ionic hydrophil ointment	14258901	6
Caelo	Non-ionic hydrophil ointment	14259001	5
Caelo	Non-ionic hydrophil ointment	14259101	4
Caelo	Non-ionic hydrophil ointment	14259201	2
Caelo	Non-ionic hydrophil ointment	14259301	1
Caelo	Non-ionic hydrophil ointment	15002601	4
Caelo	Non-ionic hydrophil ointment	15002801	3
Caelo	Non-ionic hydrophil ointment	15002901	7
Caelo	Non-ionic hydrophil ointment	15007402	4
Caelo	Non-ionic hydrophil ointment	15027801	20
Caelo	Non-ionic hydrophil ointment	15105001	3
Caelo	Non-ionic hydrophil ointment	15105101	10
Caelo	Non-ionic hydrophil ointment	15105201	1
Caelo	Non-ionic hydrophil ointment	15105301	1
Caelo	Non-ionic hydrophil ointment	15151601	10
Caelo	Non-ionic hydrophil ointment	15151801	5
Caelo	Non-ionic hydrophil ointment	15286601	3
Caelo	Non-ionic hydrophil ointment	15286701	8
Caelo	Non-ionic hydrophil ointment	15286801	7
Caelo	Non-ionic hydrophil ointment	15286901	4
Caelo	Non-ionic hydrophil ointment	15287001	14
Caelo	Non-ionic hydrophil ointment	15344701	1
Caelo	Non-ionic hydrophil ointment	15346301	1
Caelo	Non-ionic hydrophil ointment	15346401	11
Caelo	Non-ionic hydrophil ointment	15346501	2
Caelo	Non-ionic hydrophil ointment	16043801	5
Caelo	Non-ionic hydrophil ointment	16104101	20
Caelo	Non-ionic hydrophil ointment	16104201	5
Caelo	Non-ionic hydrophil ointment	16104401	1
Caelo	Non-ionic hydrophil ointment	16104501	2
Caelo	Non-ionic hydrophil ointment	16173401	5
Caelo	Non-ionic hydrophil ointment	16173501	11
Caelo	Non-ionic hydrophil ointment	16173601	2
Caelo	Non-ionic hydrophil ointment	16179301	1
Caelo	Non-ionic hydrophil ointment	16179302	18
Caelo	Non-ionic hydrophil ointment	16179303	7
Caelo	Non-ionic hydrophil ointment	16179401	34
Caelo	Non-ionic hydrophil ointment	16179402	4
Caelo	Non-ionic hydrophil ointment	16179603	1
Caelo	Non-ionic hydrophil ointment	162334801	1
Caelo	Non-ionic hydrophil ointment	16234801	20

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Non-ionic hydrophil ointment	16234901	15
Caelo	Non-ionic hydrophil ointment	16235001	5
Caelo	Non-ionic hydrophil ointment	16258501	1
Caelo	Non-ionic hydrophil ointment	1700601	1
Caelo	Non-ionic hydrophil ointment	170328UENA303640	1
Caelo	Non-ionic hydrophil ointment	170729183	1
Caelo	Non-ionic hydrophil ointment	17074201	11
Caelo	Non-ionic hydrophil ointment	17074301	4
Caelo	Non-ionic hydrophil ointment	17074401	14
Caelo	Non-ionic hydrophil ointment	170744015335	1
Caelo	Non-ionic hydrophil ointment	17074501	10
Caelo	Non-ionic hydrophil ointment	17074601	22
Caelo	Non-ionic hydrophil ointment	17086501	9
Caelo	Non-ionic hydrophil ointment	170865015315	1
Caelo	Non-ionic hydrophil ointment	17086601	10
Caelo	Non-ionic hydrophil ointment	17086701	3
Caelo	Non-ionic hydrophil ointment	17112014A	1
Caelo	Non-ionic hydrophil ointment	17151001	10
Caelo	Non-ionic hydrophil ointment	17151101	6
Caelo	Non-ionic hydrophil ointment	17151201	2
Caelo	Non-ionic hydrophil ointment	17151301	3
Caelo	Non-ionic hydrophil ointment	17151302	1
Caelo	Non-ionic hydrophil ointment	17194601	1
Caelo	Non-ionic hydrophil ointment	17200601	17
Caelo	Non-ionic hydrophil ointment	17200603	7
Caelo	Non-ionic hydrophil ointment	1720603	1
Caelo	Non-ionic hydrophil ointment	17294601	39
Caelo	Non-ionic hydrophil ointment	17294602	17
Caelo	Non-ionic hydrophil ointment	17294603	11
Caelo	Non-ionic hydrophil ointment	17342202	1
Caelo	Non-ionic hydrophil ointment	179294601	1
Caelo	Non-ionic hydrophil ointment	18002339	1
Caelo	Non-ionic hydrophil ointment	18006046	1
Caelo	Non-ionic hydrophil ointment	181007902	1
Caelo	Non-ionic hydrophil ointment	18107901	18
Caelo	Non-ionic hydrophil ointment	18107902	32
Caelo	Non-ionic hydrophil ointment	18107903	8
Caelo	Non-ionic hydrophil ointment	18121708	1
Caelo	Non-ionic hydrophil ointment	18200801	44
Caelo	Non-ionic hydrophil ointment	18200802	16
Caelo	Non-ionic hydrophil ointment	18200803	6
Caelo	Non-ionic hydrophil ointment	182200801	1
Caelo	Non-ionic hydrophil ointment	18253602	12
Caelo	Non-ionic hydrophil ointment	18253603	9
Caelo	Non-ionic hydrophil ointment	18253604	9
Caelo	Non-ionic hydrophil ointment	1900047001	1
Caelo	Non-ionic hydrophil ointment	19000473001	13
Caelo	Non-ionic hydrophil ointment	19000474001	23
Caelo	Non-ionic hydrophil ointment	19000474003	3
Caelo	Non-ionic hydrophil ointment	19000474004	22
Caelo	Non-ionic hydrophil ointment	19000802	12
Caelo	Non-ionic hydrophil ointment	19000803	12
Caelo	Non-ionic hydrophil ointment	19000804	4
Caelo	Non-ionic hydrophil ointment	19021813	1
Caelo	Non-ionic hydrophil ointment	19081505	1
Caelo	Non-ionic hydrophil ointment	19083602	19
Caelo	Non-ionic hydrophil ointment	19083603	19
Caelo	Non-ionic hydrophil ointment	19083604	4
Caelo	Non-ionic hydrophil ointment	19176501	1
Caelo	Non-ionic hydrophil ointment	19177502	21

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Non-ionic hydrophil ointment	19177503	20
Caelo	Non-ionic hydrophil ointment	19177504	6
Caelo	Non-ionic hydrophil ointment	200001244003	1
Caelo	Non-ionic hydrophil ointment	200003450001	1
Caelo	Non-ionic hydrophil ointment	20001244001	15
Caelo	Non-ionic hydrophil ointment	20001244002	15
Caelo	Non-ionic hydrophil ointment	20001244003	10
Caelo	Non-ionic hydrophil ointment	20001755001	3
Caelo	Non-ionic hydrophil ointment	20001755002	20
Caelo	Non-ionic hydrophil ointment	20001755003	15
Caelo	Non-ionic hydrophil ointment	20003450001	13
Caelo	Non-ionic hydrophil ointment	20003450003	6
Caelo	Non-ionic hydrophil ointment	20003450004	1
Caelo	Non-ionic hydrophil ointment	2000345003	1
Caelo	Non-ionic hydrophil ointment	2000345004	1
Caelo	Non-ionic hydrophil ointment	20004877	1
Caelo	Non-ionic hydrophil ointment	20061406	1
Caelo	Non-ionic hydrophil ointment	21000658001	11
Caelo	Non-ionic hydrophil ointment	21000658002	13
Caelo	Non-ionic hydrophil ointment	21000658004	3
Caelo	Non-ionic hydrophil ointment	2100143001	2
Caelo	Non-ionic hydrophil ointment	21001432001	12
Caelo	Non-ionic hydrophil ointment	21001432002	18
Caelo	Non-ionic hydrophil ointment	21001432003	4
Caelo	Non-ionic hydrophil ointment	21001476	1
Caelo	Non-ionic hydrophil ointment	21002019002	7
Caelo	Non-ionic hydrophil ointment	21002019003	2
Caelo	Non-ionic hydrophil ointment	21002019004	8
Caelo	Non-ionic hydrophil ointment	21002585	1
Caelo	Non-ionic hydrophil ointment	21003146001	1
Caelo	Non-ionic hydrophil ointment	21003146002	3
Caelo	Non-ionic hydrophil ointment	21003814002	4
Caelo	Non-ionic hydrophil ointment	21003814003	1
Caelo	Non-ionic hydrophil ointment	21003814004	5
Caelo	Non-ionic hydrophil ointment	21041721	1
Caelo	Non-ionic hydrophil ointment	21081202	1
Caelo	Non-ionic hydrophil ointment	21111203	1
Caelo	Non-ionic hydrophil ointment	27071704	1
Caelo	Non-ionic hydrophil ointment	2766	1
Caelo	Non-ionic hydrophil ointment	278694	1
Caelo	Non-ionic hydrophil ointment	288043	1
Caelo	Non-ionic hydrophil ointment	288044	1
Caelo	Non-ionic hydrophil ointment	290283	1
Caelo	Non-ionic hydrophil ointment	297633	2
Caelo	Non-ionic hydrophil ointment	297634	1
Caelo	Non-ionic hydrophil ointment	300481	2
Caelo	Non-ionic hydrophil ointment	303640	1
Caelo	Non-ionic hydrophil ointment	308111	2
Caelo	Non-ionic hydrophil ointment	308112	1
Caelo	Non-ionic hydrophil ointment	3290	1
Caelo	Non-ionic hydrophil ointment	3339	1
Caelo	Non-ionic hydrophil ointment	3718Q-02543	1
Caelo	Non-ionic hydrophil ointment	4(17151101)	1
Caelo	Non-ionic hydrophil ointment	4812I-02543	1
Caelo	Non-ionic hydrophil ointment	5016I-02543	1
Caelo	Non-ionic hydrophil ointment	5017A-02543	1
Caelo	Non-ionic hydrophil ointment	5052015B	1
Caelo	Non-ionic hydrophil ointment	5112l-02543	1
Caelo	Non-ionic hydrophil ointment	513Q-02543	1
Caelo	Non-ionic hydrophil ointment	6(18253604)	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Non-ionic hydrophil ointment	60115A	1
Caelo	Non-ionic hydrophil ointment	6061305	1
Caelo	Non-ionic hydrophil ointment	80983602	1
Caelo	Non-ionic hydrophil ointment	9639838	1
Caelo	Non-ionic hydrophil ointment	CHB13263501	1
Caeolo ,	Non-ionic hydrophil ointment	17086601	1
Caesar & Loretz GmbH / ...	Non-ionic hydrophil ointment	20001244001	2
Caesar & Loretz GmbH Sa...	Non-ionic hydrophil ointment	20001244001	2
Caesar & Loretz GmbH/ G...	Non-ionic hydrophil ointment	19000474004	1
Caesar & Loretz GmbH/ G...	Non-ionic hydrophil ointment	20003450003	1
Caesar & Loretz GmbH/ P...	Non-ionic hydrophil ointment	20001755002	1
Caesar & Loretz GmbH/AHD	Non-ionic hydrophil ointment	19000803	1
Caesar & Loretz GmbH/Al...	Non-ionic hydrophil ointment	19000474003	1
Caesar & Loretz GmbH/An...	Non-ionic hydrophil ointment	19177503	2
Caesar & Loretz GmbH/GEHE	Non-ionic hydrophil ointment	19000802	1
Caesar & Loretz GmbH/Gehe	Non-ionic hydrophil ointment	19083602	1
Caesar & Loretz GmbH/Gehe	Non-ionic hydrophil ointment	20001244001	2
Caesar & Loretz GmbH/Gehe	Non-ionic hydrophil ointment	21003814003	1
Caesar & Loretz GmbH/Ge...	Non-ionic hydrophil ointment	19000804	1
Caesar & Loretz GmbH/Je...	Non-ionic hydrophil ointment	19005914	2
Caesar & Loretz GmbH/je...	Non-ionic hydrophil ointment	21000658001	1
Caesar & Loretz GmbH/Kr...	Non-ionic hydrophil ointment	19000474001	1
Caesar & Loretz GmbH/Kr...	Non-ionic hydrophil ointment	19177502	1
Caesar & Loretz GmbH/No...	Non-ionic hydrophil ointment	20001244001	1
Caesar & Loretz GmbH/No...	Non-ionic hydrophil ointment	19000474001	1
Caesar & Loretz GmbH/No...	Non-ionic hydrophil ointment	19177502	1
Caesar & Loretz GmbH/No...	Non-ionic hydrophil ointment	20001755003	2
Caesar & Loretz GmbH/Ph...	Non-ionic hydrophil ointment	21002019002	1
Caesar & Loretz GmbH/Ph...	Non-ionic hydrophil ointment	22000338001	1
Caesar & Loretz GmbH/Ph...	Non-ionic hydrophil ointment	21000658001	1
Caesar & Loretz GmbH/Ph...	Non-ionic hydrophil ointment	21000658002	1
Caesar & Loretz GmbH/Ph...	Non-ionic hydrophil ointment	21001432001	1
Caesar & Loretz GmbH/Ph...	Non-ionic hydrophil ointment	21001432002	1
Caesar & Loretz GmbH/Ph...	Non-ionic hydrophil ointment	21003146002	2
Caesar & Loretz GmbH/Sa...	Non-ionic hydrophil ointment	19177502	1
Caesar & Loretz GmbH/Sa...	Non-ionic hydrophil ointment	20001244001	3
Caesar & Loretz GmbH/Sa...	Non-ionic hydrophil ointment	20001755002	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	18107902	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	18200801	2
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	18253603	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	18253604	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19000473001	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19000474001	9
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19000474003	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19000474004	13
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19000802	2
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19000803	2
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19083602	4
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19083603	2
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19083604	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19177502	6
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19177503	7
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	19177504	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	20001244001	2
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	20001244002	4
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	20001244003	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	20001755001	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	20001755002	8
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	20001755003	4
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	20003450003	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	20003450004	2
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21000658001	4
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21000658002	6
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21000658004	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21001432001	4
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21001432002	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21002019002	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21002019003	2
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21003146002	4
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21003814002	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	21003814003	1
Caesar & Loretz GmbH	Non-ionic hydrophil ointment	22000338001	1
Caesar & Loretz Hilden	Non-ionic hydrophil ointment	18200801	1
Caesar & Loretz	Non-ionic hydrophil ointment	19083604	1
Caesar &Loretz GmbH /Gehe	Non-ionic hydrophil ointment	21001432001	2
Caesar &Loretz GmbH	Non-ionic hydrophil ointment	12352901	1
Caesar&Lorenz	Non-ionic hydrophil ointment	21000658004	1
Caesar/Noweda	Non-ionic hydrophil ointment	15346401	1
Caesar-Loretz/Fiebig	Non-ionic hydrophil ointment	17294601	1
Cealo/ Phoenix	Non-ionic hydrophil ointment	18200801	2
Cealo	Non-ionic hydrophil ointment	13138101	1
Cealo	Non-ionic hydrophil ointment	16179302	1
Ebert & Jacobi	Non-ionic hydrophil ointment	17294601	1
Ebert und Jacobi	Non-ionic hydrophil ointment	18200801	1
Euro OTC	Non-ionic hydrophil ointment	14068601	3
Euro OTC	Non-ionic hydrophil ointment	17151301	1
Euro OTC	Non-ionic hydrophil ointment	17200603	1
Euro OTC	Non-ionic hydrophil ointment	18253602	1
Euro OTC	Non-ionic hydrophil ointment	19000802	1
Euro OTC	Non-ionic hydrophil ointment	266631	1
Euro OTC	Non-ionic hydrophil ointment	311098	1
Fagron	Non-ionic hydrophil ointment	12223301	3
Fagron	Non-ionic hydrophil ointment	13045301	1
Fagron	Non-ionic hydrophil ointment	182053603	1
Fagron	Non-ionic hydrophil ointment	290282	1
Fiebig	Non-ionic hydrophil ointment	17200601	1
Fiebig	Non-ionic hydrophil ointment	17294602	1
Fiebig	Non-ionic hydrophil ointment	18107901	1
Fiebig	Non-ionic hydrophil ointment	18200801	1
GEHE 10.03.2014	Non-ionic hydrophil ointment	13137901	1
GEHE 23.09.2014	Non-ionic hydrophil ointment	14221301	1
Gehe	Non-ionic hydrophil ointment	15027801	1
Gehe	Non-ionic hydrophil ointment	16104401	1
Gehe	Non-ionic hydrophil ointment	16179302	1
Gehe	Non-ionic hydrophil ointment	17200603	1
GEHE	Non-ionic hydrophil ointment	17200603	1
Gehe	Non-ionic hydrophil ointment	18200802	1
GEHE	Non-ionic hydrophil ointment	18253602	1
GEHE	Non-ionic hydrophil ointment	18253604	1
Gehe	Non-ionic hydrophil ointment	19083602	1
GEHE	Non-ionic hydrophil ointment	19083602	1
GUMO	Non-ionic hydrophil ointment	19005914	1
Henry Lamotte/AHD	Non-ionic hydrophil ointment	17086501	1
Ichthyol/Phoenix	Non-ionic hydrophil ointment	16179402	1
Infetopharm	Non-ionic hydrophil ointment	18253604	1
Jenne 12.10.21 EK:3,91	Non-ionic hydrophil ointment	211019NHC	1
Kehr	Non-ionic hydrophil ointment	17294601	1
Kehr	Non-ionic hydrophil ointment	18107902	1
Kehr	Non-ionic hydrophil ointment	18253602	1
Martinus-Apotheke	Non-ionic hydrophil ointment	13138001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Non-ionic hydrophil ointment	13138101	1
Noweda	Non-ionic hydrophil ointment	16179302	1
Noweda	Non-ionic hydrophil ointment	16234801	1
Noweda	Non-ionic hydrophil ointment	17001326	1
Noweda	Non-ionic hydrophil ointment	17074601	1
Noweda	Non-ionic hydrophil ointment	17994601	1
Noweda	Non-ionic hydrophil ointment	18001523	1
Noweda	Non-ionic hydrophil ointment	18002338	1
Noweda	Non-ionic hydrophil ointment	18003691	5
Noweda	Non-ionic hydrophil ointment	1812U-02543	1
noweda	Non-ionic hydrophil ointment	20002611	1
Noweda	Non-ionic hydrophil ointment	20003238	1
Noweda	Non-ionic hydrophil ointment	2122013c	1
Noweda	Non-ionic hydrophil ointment	271980	1
Noweda08.06.2015	Non-ionic hydrophil ointment	15027801	1
Phoenix	Non-ionic hydrophil ointment	16104501	2
Phoenix	Non-ionic hydrophil ointment	17294601	1
Phoenix	Non-ionic hydrophil ointment	20001755003	1
Phoenix	Non-ionic hydrophil ointment	2001755002	1
Phönix/Bionorica	Non-ionic hydrophil ointment	17200601	1
Phönix	Non-ionic hydrophil ointment	13045501	1
PHÖNIX	Non-ionic hydrophil ointment	17151302	1
Phönix	Non-ionic hydrophil ointment	21000658001	1
Phönix	Non-ionic hydrophil ointment	21002019002	1
Phönix	Non-ionic hydrophil ointment	3033640	1
Post-Apotheke	Non-ionic hydrophil ointment	13263701	2
Röntgen	Non-ionic hydrophil ointment	18002339	3
Röntgen	Non-ionic hydrophil ointment	19000787	1
Röntgen	Non-ionic hydrophil ointment	19004156	1
Röntgen	Non-ionic hydrophil ointment	2000612	1
Röntgen	Non-ionic hydrophil ointment	60080701	1
Sanacop	Non-ionic hydrophil ointment	15105101	1
Sanacorp	Non-ionic hydrophil ointment	13045401	1
Sanacorp	Non-ionic hydrophil ointment	13138001	1
Sanacorp	Non-ionic hydrophil ointment	14068601	1
Sanacorp	Non-ionic hydrophil ointment	15002901	1
Sanacorp	Non-ionic hydrophil ointment	17086501	2
Sanacorp	Non-ionic hydrophil ointment	17151301	1
Sanacorp	Non-ionic hydrophil ointment	18200802	1
Sanacorp	Non-ionic hydrophil ointment	18253603	1
Sanacorp	Non-ionic hydrophil ointment	19000474001	1
Sanacorp	Non-ionic hydrophil ointment	21001477	1
Sanacorp	Non-ionic hydrophil ointment	271980	1
Sanacorp	Non-ionic hydrophil ointment	271981	1
Sanacorp	Non-ionic hydrophil ointment	288043	1
vdl	Non-ionic hydrophil ointment	11357601	2
VDL	Non-ionic hydrophil ointment	13332901	1
VDL	Non-ionic hydrophil ointment	19000802	1
VDL	Non-ionic hydrophil ointment	1977503	1

- 295 474 spectra from 1324 *Apo-Ident* customers from a total of 52 666 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Validation results

The validation runs checked whether the substance/substance group *Non-ionic hydrophil ointment* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Non-ionic hydrophil ointment* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	780	0	67 719
Type B	0	1507	13	109 793
Type C	0	1950	34	295 474

The substance/substance group *Non-ionic hydrophil ointment* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.2308 %)
Type B	100.0000 % (> 99.9678 %)	99.1447 % (> 98.9474 %)
Type C	100.0000 % (> 99.6875 %)	98.2863 % (> 98.1351 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Non-ionic hydrophil ointment* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Base cream DAC	5.03	12.35
Psorisol base cream Audor®	15.37	–
Anionic hydrophilic cream DAB	17.32	–
Lanette® ointment (conserved)	19.60	19.50
Base cream, hydrophobic DAC	19.81	–
Anionic hydrophilic cream with propyle...	20.63	–
Eucerin® cum Aqua	24.55	16.76
Wool alcohol cream SR	25.23	10.04
Skin care ointment W/L SR	25.67	–
Skin care ointment W/L SR (without pre...	29.56	–
Anionic hydrophlic cream without prese...	29.68	–
Anionic hydrophilic cream SR (NRF p.27)	30.49	–
Hydrophilic cream, non-ionic without p...	39.81	–
Hydrophilic cream, non-ionic SR (NRF p...	43.82	–
Wool alcohol cream DAB	44.13	19.08
Glycolic acid 70%	49.51	–
⋮	⋮	⋮
2-ethylhexyl laurate	>50	138.72
Squalane	>50	175.05

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Non-ionic hydrophil ointment* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31001	31748	6.38	15.73
31227	35663	2.86	15.42
31451	31451	0.00	15.50
31748	31748	0.00	12.96
31749	31748	3.59	15.39
32088	32088	0.00	14.60
32105	31748	4.82	15.05
32726	35159	4.61	19.27
33360	33360	0.00	22.63
34010	34010	0.00	12.63
34856	34856	0.00	19.37
34857	34857	0.00	16.29
35100	35100	0.00	24.63
35159	35159	0.00	23.73
35526	35526	0.00	20.15
35663	35663	0.00	19.35
35912	35912	0.00	23.08
35913	35913	0.00	21.47

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Octyldodecanol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30867-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Octyldodecanol; Octyldodecanolum

Special notes

When selecting the *Octyldodecanol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Octyldodecanol	7	5	313

Second-stage model

For differentiation of the substance/substance group *Octyldodecanol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Octyldodecanol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Octyldodecanol	12165509	30867	40	20120711
Caelo	Octyldodecanol	13360010	31330	40	AR-15-FG-000314-01
Caelo	Octyldodecanol	15135212	31753	60	20150506
Caelo	Octyldodecanol	16095507	32958	40	20160421
Caelo	Octyldodecanol	163127	33093	40	20161219*
Caelo	Octyldodecanol	190136	34468	40	20190211*
Caelo	Octyldodecanol	190961	34471	40	20190521*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 300 spectra of 7 reference samples from the substance/substance group *Octyldodecanol*. These samples are listed above in the *calibration samples* section. The reference samples come from 7 different batches.
- 68 199 spectra from a total of 1406 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 200 spectra of 5 reference samples from the substance/substance group *Octyldodecanol*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 5 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Octyldodecanol	171381	34052	40
Caelo	Octyldodecanol	181120	34220	40
Caelo	Octyldodecanol	192693	34804	40
Caelo	Octyldodecanol	21004149	36301	40
Caelo	Octyldodecanol	22001648	36508	40

- 111 113 spectra from a total of 2661 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 4438 spectra from 947 *Apo-Ident* customers from 326 batches from the substance/substance group *Octyldodecanol*.

- Among them are spectra of independent samples from 312 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Octyldodecanol		1
	Octyldodecanol	1410207	1
A.H.D.	Octyldodecanol	13044007	1
AHD 09.04.2013	Octyldodecanol	12165521	1
AHD 30.5 preis:6,07	Octyldodecanol	13360011//05R06	1
AHD, 09.10.2013	Octyldodecanol	13044016	1
AHD/Caesar & Loretz GmbH	Octyldodecanol	192693005	1
AHD	Octyldodecanol	16312701	1
AHD	Octyldodecanol	18112008	1
AHD	Octyldodecanol	192693001	1
ALH	Octyldodecanol	16095503	1
ALH	Octyldodecanol	16095507	2
ALH	Octyldodecanol	16099503	1
ALH	Octyldodecanol	16312701	2
Alliance healthcare	Octyldodecanol	13044013	1
Alliance Healthcare	Octyldodecanol	18112006	1
Alliance Healthcare	Octyldodecanol	18112008	1
Alliance	Octyldodecanol	20001252001	1
Allianz	Octyldodecanol	17273001	1
Allianz	Octyldodecanol	18112001	3
Anzag/Henry Lamotte	Octyldodecanol	14371711	1
Anzag	Octyldodecanol	12165519	1
Anzag	Octyldodecanol	15383005	1
Anzag	Octyldodecanol	16095503	2
Anzag	Octyldodecanol	16095507	1
Anzag	Octyldodecanol	16312701	1
Anzag	Octyldodecanol	18112001	1
Anzag	Octyldodecanol	19096105	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf/Anzag	Octyldodecanol	13044007	1
Bombastus	Octyldodecanol	11060318	1
Bombastus	Octyldodecanol	14371703	1
Bombastus	Octyldodecanol	15383008	1
Bombastus	Octyldodecanol	16095506	1
Bombastus	Octyldodecanol	18112001	1
BTC (BASF)	Octyldodecanol	22035655	5
BTC Ch.Lief.: 0020304728	Octyldodecanol	41905Probe1/4	1
BTC Ch.Lief.: 0020304728	Octyldodecanol	41905Probe2/4	1
BTC Ch.Lief.: 0020304728	Octyldodecanol	41905Probe3/4	1
BTC Ch.Lief.: 0020304728	Octyldodecanol	41905Probe4/4	1
Caelo	Octyldodecanol		4
Caelo	Octyldodecanol	1/2/3002	1
Caelo	Octyldodecanol	1002182006	1
Caelo	Octyldodecanol	10281907	1
Caelo	Octyldodecanol	1098722	2
Caelo	Octyldodecanol	11012014A	1
Caelo	Octyldodecanol	11052015A	1
Caelo	Octyldodecanol	11060305	1
Caelo	Octyldodecanol	11060317	1
Caelo	Octyldodecanol	11060319	2
Caelo	Octyldodecanol	1136017	1
Caelo	Octyldodecanol	11369003	7
Caelo	Octyldodecanol	11369004	3
Caelo	Octyldodecanol	11369012	2
Caelo	Octyldodecanol	11369014	2
Caelo	Octyldodecanol	11369016	8
Caelo	Octyldodecanol	11369017	5
Caelo	Octyldodecanol	11369021	3
Caelo	Octyldodecanol	12011401	1
Caelo	Octyldodecanol	12091304	1
Caelo	Octyldodecanol	12091806	1
Caelo	Octyldodecanol	12111303	1
Caelo	Octyldodecanol	12165506	3
Caelo	Octyldodecanol	12165509	7
Caelo	Octyldodecanol	12165511	9
Caelo	Octyldodecanol	12165514	4
Caelo	Octyldodecanol	12165515	13
Caelo	Octyldodecanol	12165517	2
Caelo	Octyldodecanol	12165519	8
Caelo	Octyldodecanol	12165520	9
Caelo	Octyldodecanol	12165521	10
Caelo	Octyldodecanol	1265515	1
Caelo	Octyldodecanol	1273001	1
Caelo	Octyldodecanol	13044002	9
Caelo	Octyldodecanol	13044005	13
Caelo	Octyldodecanol	13044007	8
Caelo	Octyldodecanol	13044009	14
Caelo	Octyldodecanol	13044010	12
Caelo	Octyldodecanol	13044013	18
Caelo	Octyldodecanol	13044015	9
Caelo	Octyldodecanol	13044016	17
Caelo	Octyldodecanol	13044040	1
Caelo	Octyldodecanol	13092013A	1
Caelo	Octyldodecanol	1314I-02875	1
Caelo	Octyldodecanol	1322005	1
Caelo	Octyldodecanol	13222001	1
Caelo	Octyldodecanol	13222002	13
Caelo	Octyldodecanol	13222003	17
Caelo	Octyldodecanol	13222005	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Octyldodecanol	13222008	19
Caelo	Octyldodecanol	13222010	1
Caelo	Octyldodecanol	13222011	9
Caelo	Octyldodecanol	13222013	1
Caelo	Octyldodecanol	133360010	1
Caelo	Octyldodecanol	13360001	3
Caelo	Octyldodecanol	13360002	13
Caelo	Octyldodecanol	13360003	8
Caelo	Octyldodecanol	13360005	7
Caelo	Octyldodecanol	13360006	15
Caelo	Octyldodecanol	13360008	14
Caelo	Octyldodecanol	13360009	2
Caelo	Octyldodecanol	13360010	16
Caelo	Octyldodecanol	13360011	15
Caelo	Octyldodecanol	13360012	14
Caelo	Octyldodecanol	13E07-N03	1
Caelo	Octyldodecanol	13L02-B05-288974	1
Caelo	Octyldodecanol	14130202	1
Caelo	Octyldodecanol	14130204	5
Caelo	Octyldodecanol	14130205	17
Caelo	Octyldodecanol	14130206	18
Caelo	Octyldodecanol	14130207	30
Caelo	Octyldodecanol	14135206	1
Caelo	Octyldodecanol	14158401	2
Caelo	Octyldodecanol	14158402	19
Caelo	Octyldodecanol	14158407	2
Caelo	Octyldodecanol	14158410	11
Caelo	Octyldodecanol	14158411	6
Caelo	Octyldodecanol	1431707	1
Caelo	Octyldodecanol	143710706	1
Caelo	Octyldodecanol	14371703	1
Caelo	Octyldodecanol	14371705	4
Caelo	Octyldodecanol	14371706	17
Caelo	Octyldodecanol	14371707	6
Caelo	Octyldodecanol	14371710	5
Caelo	Octyldodecanol	14371711	26
Caelo	Octyldodecanol	14371712	1
Caelo	Octyldodecanol	14371714	7
Caelo	Octyldodecanol	14371715	3
Caelo	Octyldodecanol	14371716	12
Caelo	Octyldodecanol	1471714	1
Caelo	Octyldodecanol	15092014B	1
Caelo	Octyldodecanol	1513202	1
Caelo	Octyldodecanol	15135026	1
Caelo	Octyldodecanol	1513513	1
Caelo	Octyldodecanol	151352	1
Caelo	Octyldodecanol	15135203	17
Caelo	Octyldodecanol	15135205	1
Caelo	Octyldodecanol	15135206	38
Caelo	Octyldodecanol	15135207	9
Caelo	Octyldodecanol	15135211	11
Caelo	Octyldodecanol	15135212	21
Caelo	Octyldodecanol	15135213	79
Caelo	Octyldodecanol	1535203	1
Caelo	Octyldodecanol	1538003	1
Caelo	Octyldodecanol	1538004	3
Caelo	Octyldodecanol	1538005	2
Caelo	Octyldodecanol	1538009	1
Caelo	Octyldodecanol	153830	3
Caelo	Octyldodecanol	153830004	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Octyldodecanol	15383002	3
Caelo	Octyldodecanol	15383003	10
Caelo	Octyldodecanol	15383004	28
Caelo	Octyldodecanol	15383005	54
Caelo	Octyldodecanol	15383008	37
Caelo	Octyldodecanol	15383009	32
Caelo	Octyldodecanol	1583004	1
Caelo	Octyldodecanol	1583009	1
Caelo	Octyldodecanol	160112-01	1
Caelo	Octyldodecanol	160955	2
Caelo	Octyldodecanol	1609550	1
Caelo	Octyldodecanol	16095501	3
Caelo	Octyldodecanol	16095502	26
Caelo	Octyldodecanol	16095503	51
Caelo	Octyldodecanol	16095506	54
Caelo	Octyldodecanol	16095507	69
Caelo	Octyldodecanol	16095508	5
Caelo	Octyldodecanol	1609551	1
Caelo	Octyldodecanol	16095511	81
Caelo	Octyldodecanol	163112701	1
Caelo	Octyldodecanol	163122701	1
Caelo	Octyldodecanol	163127	1
Caelo	Octyldodecanol	16312701	86
Caelo	Octyldodecanol	16312704	5
Caelo	Octyldodecanol	16312706	36
Caelo	Octyldodecanol	16312707	29
Caelo	Octyldodecanol	16312710	12
Caelo	Octyldodecanol	1695511	1
Caelo	Octyldodecanol	1707701	3
Caelo	Octyldodecanol	17077701	25
Caelo	Octyldodecanol	1707771	1
Caelo	Octyldodecanol	17082015C	1
Caelo	Octyldodecanol	17138102	102
Caelo	Octyldodecanol	17138103	12
Caelo	Octyldodecanol	17138105	52
Caelo	Octyldodecanol	17138109	32
Caelo	Octyldodecanol	17138110	4
Caelo	Octyldodecanol	1716I-02875	1
Caelo	Octyldodecanol	1718102	1
Caelo	Octyldodecanol	1727001	1
Caelo	Octyldodecanol	17273001	103
Caelo	Octyldodecanol	17273002	141
Caelo	Octyldodecanol	17273003	16
Caelo	Octyldodecanol	17273006	1
Caelo	Octyldodecanol	17273008	74
Caelo	Octyldodecanol	17273038	1
Caelo	Octyldodecanol	1738102	2
Caelo	Octyldodecanol	180119OD/17138109	1
Caelo	Octyldodecanol	180208OD/17138109	1
Caelo	Octyldodecanol	18112001	101
Caelo	Octyldodecanol	18112001P-180820-1	1
Caelo	Octyldodecanol	18112001P-190312-4	1
Caelo	Octyldodecanol	18112002	69
Caelo	Octyldodecanol	18112004	10
Caelo	Octyldodecanol	18112006	105
Caelo	Octyldodecanol	18112008	63
Caelo	Octyldodecanol	18112010	58
Caelo	Octyldodecanol	18112011	90
Caelo	Octyldodecanol	18112012	2
Caelo	Octyldodecanol	18112020	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Octyldodecanol	1812001	1
Caelo	Octyldodecanol	1812010	1
Caelo	Octyldodecanol	187273002	1
Caelo	Octyldodecanol	188112001	1
Caelo	Octyldodecanol	190113602	2
Caelo	Octyldodecanol	1901360	1
Caelo	Octyldodecanol	19013601	2
Caelo	Octyldodecanol	19013602	69
Caelo	Octyldodecanol	19013603	120
Caelo	Octyldodecanol	19013604	9
Caelo	Octyldodecanol	19013609	53
Caelo	Octyldodecanol	19013610	52
Caelo	Octyldodecanol	190136202	1
Caelo	Octyldodecanol	190136404	1
Caelo	Octyldodecanol	1901610	1
Caelo	Octyldodecanol	19061001	1
Caelo	Octyldodecanol	19066105	1
Caelo	Octyldodecanol	190696102	1
Caelo	Octyldodecanol	190960105	1
Caelo	Octyldodecanol	190961001	43
Caelo	Octyldodecanol	190961007	1
Caelo	Octyldodecanol	19096102	58
Caelo	Octyldodecanol	19096103	7
Caelo	Octyldodecanol	19096105	95
Caelo	Octyldodecanol	1926930002	1
Caelo	Octyldodecanol	1926930005	1
Caelo	Octyldodecanol	192693001	70
Caelo	Octyldodecanol	192693002	111
Caelo	Octyldodecanol	192693004	9
Caelo	Octyldodecanol	192693005	24
Caelo	Octyldodecanol	192693009	6
Caelo	Octyldodecanol	19693001	1
Caelo	Octyldodecanol	198013609	1
Caelo	Octyldodecanol	198693001	1
Caelo	Octyldodecanol	200003742004	1
Caelo	Octyldodecanol	2000125001	3
Caelo	Octyldodecanol	20001252001	57
Caelo	Octyldodecanol	20001252002	26
Caelo	Octyldodecanol	200012522001	1
Caelo	Octyldodecanol	20002152002	1
Caelo	Octyldodecanol	20003742002	1
Caelo	Octyldodecanol	20003742003	14
Caelo	Octyldodecanol	20003742004	29
Caelo	Octyldodecanol	20003742006	28
Caelo	Octyldodecanol	20003742007	1
Caelo	Octyldodecanol	2000374206	1
Caelo	Octyldodecanol	2001252001	3
Caelo	Octyldodecanol	2001252002	1
Caelo	Octyldodecanol	2003742006	1
Caelo	Octyldodecanol	21000064004	37
Caelo	Octyldodecanol	21000064006	17
Caelo	Octyldodecanol	21000064007	1
Caelo	Octyldodecanol	21000064009	3
Caelo	Octyldodecanol	2100006404	1
Caelo	Octyldodecanol	2100064004	2
Caelo	Octyldodecanol	2100064009	1
Caelo	Octyldodecanol	2100218002	1
Caelo	Octyldodecanol	21002182002	23
Caelo	Octyldodecanol	21002182003	4
Caelo	Octyldodecanol	21002182004	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Octyldodecanol	21002182006	5
Caelo	Octyldodecanol	21002182007	8
Caelo	Octyldodecanol	21004149004	1
Caelo	Octyldodecanol	21004149006	3
Caelo	Octyldodecanol	210826	1
Caelo	Octyldodecanol	24062014B	1
Caelo	Octyldodecanol	250918A	1
Caelo	Octyldodecanol	2513A-02875	1
Caelo	Octyldodecanol	26071208	1
Caelo	Octyldodecanol	2613M-02875	2
Caelo	Octyldodecanol	27101712	1
Caelo	Octyldodecanol	29(17077701)	1
Caelo	Octyldodecanol	2xa13360002	1
Caelo	Octyldodecanol	30(17273001)	1
Caelo	Octyldodecanol	31(17273001)	1
Caelo	Octyldodecanol	31101416	1
Caelo	Octyldodecanol	32(18112001)	1
Caelo	Octyldodecanol	33(18112001)	1
Caelo	Octyldodecanol	3313	1
Caelo	Octyldodecanol	3314E-02875	1
Caelo	Octyldodecanol	34(19013602)	1
Caelo	Octyldodecanol	3406200037426	1
Caelo	Octyldodecanol	35(19013602)	1
Caelo	Octyldodecanol	4111712	1
Caelo	Octyldodecanol	4113A2875	1
Caelo	Octyldodecanol	4214U-02875	1
Caelo	Octyldodecanol	4817E-02875	1
Caelo	Octyldodecanol	4913M-02875	1
Caelo	Octyldodecanol	4916Q-02875	1
Caelo	Octyldodecanol	516A-02875	1
Caelo	Octyldodecanol	7138109	1
Caelo	Octyldodecanol	717Q-02875	1
Caelo	Octyldodecanol	8012015B	1
Caelo	Octyldodecanol	82695089	1
Caelo	Octyldodecanol	9013603	1
Caelo	Octyldodecanol	9013609	1
Caelo	Octyldodecanol	9096105	1
Caelo	Octyldodecanol	90961051	1
Caelo	Octyldodecanol	B11060317	1
Caelo	Octyldodecanol	CE11350022	2
Caelo	Octyldodecanol	CHB19096105	1
Caeo	Octyldodecanol	14130205	1
Caeol/Noweda	Octyldodecanol	17273008	1
Caeol/Phoenix	Octyldodecanol	15383005	1
Caeol/Phönix	Octyldodecanol	16312706	1
Caeol	Octyldodecanol	6022014B	1
Caeolo / Phönix	Octyldodecanol	16312707	1
Caeolo/Noweda	Octyldodecanol	15383008	1
Caeolo/Phoenix	Octyldodecanol	18112008	1
Caeolo/Sanacorp	Octyldodecanol	18112006	1
Caesar & Lorenz GmbH	Octyldodecanol	17273002	2
Caesar & Lorenz GmbH	Octyldodecanol	17273008	2
Caesar & Lorenz GmbH	Octyldodecanol	19013603	1
Caesar & Lorenz GmbH	Octyldodecanol	190961001	1
Caesar & Lorenz GmbH	Octyldodecanol	19096102	1
Caesar & Lorenz GmbH	Octyldodecanol	192693002	2
Caesar & Loretz GmbH /...	Octyldodecanol	192693002	2
Caesar & Loretz GmbH / ...	Octyldodecanol	17138105	1
Caesar & Loretz GmbH / ...	Octyldodecanol	17273008	1
Caesar & Loretz GmbH / ...	Octyldodecanol	18112002	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH / ...	Octyldodecanol	190961001	1
Caesar & Loretz GmbH / ...	Octyldodecanol	20001252001	1
Caesar & Loretz GmbH / ...	Octyldodecanol	18112010	1
Caesar & Loretz GmbH / ...	Octyldodecanol	20003742006	1
Caesar & Loretz GmbH / ...	Octyldodecanol	16095507	1
Caesar & Loretz GmbH / ...	Octyldodecanol	17273002	1
Caesar & Loretz GmbH / ...	Octyldodecanol	19013603	1
Caesar & Loretz GmbH / ...	Octyldodecanol	19096102	3
Caesar & Loretz GmbH / ...	Octyldodecanol	19096102	2
Caesar & Loretz GmbH / ...	Octyldodecanol	20001252001	1
Caesar & Loretz GmbH / ...	Octyldodecanol	19096105	1
Caesar & Loretz GmbH Ph...	Octyldodecanol	21000064006	1
Caesar & Loretz GmbH, P...	Octyldodecanol	18112002	1
Caesar & Loretz GmbH/ G...	Octyldodecanol	20003742004	1
Caesar & Loretz GmbH/ P...	Octyldodecanol	21002182003	1
Caesar & Loretz GmbH/AHD	Octyldodecanol	20003772003	1
Caesar & Loretz GmbH/Al...	Octyldodecanol	19013610	1
Caesar & Loretz GmbH/Al...	Octyldodecanol	20001252001	1
Caesar & Loretz GmbH/An...	Octyldodecanol	19096105	1
Caesar & Loretz GmbH/Fi...	Octyldodecanol	19013601	1
Caesar & Loretz GmbH/Fi...	Octyldodecanol	19013603	1
Caesar & Loretz GmbH/Fi...	Octyldodecanol	19096102	1
Caesar & Loretz GmbH/Fi...	Octyldodecanol	20003742004	4
Caesar & Loretz GmbH/Gehe	Octyldodecanol	19013609	1
Caesar & Loretz GmbH/Gehe	Octyldodecanol	19013610	1
Caesar & Loretz GmbH/Gehe	Octyldodecanol	19096102	2
Caesar & Loretz GmbH/Gehe	Octyldodecanol	19096105	1
Caesar & Loretz GmbH/Gehe	Octyldodecanol	192693001	2
Caesar & Loretz GmbH/Gehe	Octyldodecanol	192693002	1
Caesar & Loretz GmbH/Gehe	Octyldodecanol	192693005	1
Caesar & Loretz GmbH/Gehe	Octyldodecanol	20001252001	1
Caesar & Loretz GmbH/Gehe	Octyldodecanol	20003742006	2
Caesar & Loretz GmbH/Gehe	Octyldodecanol	21000064004	1
Caesar & Loretz GmbH/GEHE	Octyldodecanol	21000064004	1
Caesar & Loretz GmbH/Gehe	Octyldodecanol	21002182006	1
Caesar & Loretz GmbH/Gehe	Octyldodecanol	21002182007	1
Caesar & Loretz GmbH/Ge...	Octyldodecanol	20001252001	1
Caesar & Loretz GmbH/Je...	Octyldodecanol	190961001	3
Caesar & Loretz GmbH/Je...	Octyldodecanol	192693002	2
Caesar & Loretz GmbH/Kehr	Octyldodecanol	190961001	2
Caesar & Loretz GmbH/Kehr	Octyldodecanol	192693002	3
Caesar & Loretz GmbH/Kehr	Octyldodecanol	20001252001	1
Caesar & Loretz GmbH/kehr	Octyldodecanol	20003742004	1
Caesar & Loretz GmbH/Kr...	Octyldodecanol	19013603	1
Caesar & Loretz GmbH/Kr...	Octyldodecanol	19013604	2
Caesar & Loretz GmbH/NO...	Octyldodecanol	18112008	1
Caesar & Loretz GmbH/No...	Octyldodecanol	19013602	2
Caesar & Loretz GmbH/No...	Octyldodecanol	19013603	3
Caesar & Loretz GmbH/No...	Octyldodecanol	19013609	1
Caesar & Loretz GmbH/No...	Octyldodecanol	19096105	2
Caesar & Loretz GmbH/No...	Octyldodecanol	192693001	1
Caesar & Loretz GmbH/No...	Octyldodecanol	20001252001	2
Caesar & Loretz GmbH/No...	Octyldodecanol	20003742004	1
Caesar & Loretz GmbH/P	Octyldodecanol	190961001	1
Caesar & Loretz GmbH/P	Octyldodecanol	192693002	2
Caesar & Loretz GmbH/Ph...	Octyldodecanol	20003742004	1
Caesar & Loretz GmbH/Ph...	Octyldodecanol	192693002	1
Caesar & Loretz GmbH/Ph...	Octyldodecanol	21000064004	1
Caesar & Loretz GmbH/Ph...	Octyldodecanol	21002182002	1
Caesar & Loretz GmbH/Ph...	Octyldodecanol	19096102	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Ph...	Octyldodecanol	19013602	2
Caesar & Loretz GmbH/Ph...	Octyldodecanol	19096105	1
Caesar & Loretz GmbH/Ph...	Octyldodecanol	192693002	2
Caesar & Loretz GmbH/Ph...	Octyldodecanol	20001252002	1
Caesar & Loretz GmbH/Ph...	Octyldodecanol	20003742003	2
Caesar & Loretz GmbH/Ph...	Octyldodecanol	20003742004	1
Caesar & Loretz GmbH/Ph...	Octyldodecanol	21000064006	2
Caesar & Loretz GmbH/Ph...	Octyldodecanol	21002182006	1
Caesar & Loretz GmbH/Ph...	Octyldodecanol	21002182007	1
Caesar & Loretz GmbH/Sa...	Octyldodecanol	192693005	1
Caesar & Loretz GmbH/Sa...	Octyldodecanol	20003742006	1
Caesar & Loretz GmbH/Sa...	Octyldodecanol	21002182003	1
Caesar & Loretz GmbH	Octyldodecanol	13222008	1
Caesar & Loretz GmbH	Octyldodecanol	13360010	1
Caesar & Loretz GmbH	Octyldodecanol	15135206	1
Caesar & Loretz GmbH	Octyldodecanol	16095511	1
Caesar & Loretz GmbH	Octyldodecanol	16312701	1
Caesar & Loretz GmbH	Octyldodecanol	17138105	1
Caesar & Loretz GmbH	Octyldodecanol	17273002	1
Caesar & Loretz GmbH	Octyldodecanol	18112001	2
Caesar & Loretz GmbH	Octyldodecanol	18112002	1
Caesar & Loretz GmbH	Octyldodecanol	18112006	5
Caesar & Loretz GmbH	Octyldodecanol	18112008	2
Caesar & Loretz GmbH	Octyldodecanol	18112010	3
Caesar & Loretz GmbH	Octyldodecanol	18112011	13
Caesar & Loretz GmbH	Octyldodecanol	18112012	2
Caesar & Loretz GmbH	Octyldodecanol	19013601	2
Caesar & Loretz GmbH	Octyldodecanol	19013602	16
Caesar & Loretz GmbH	Octyldodecanol	19013603	23
Caesar & Loretz GmbH	Octyldodecanol	19013604	3
Caesar & Loretz GmbH	Octyldodecanol	19013609	8
Caesar & Loretz GmbH	Octyldodecanol	19013610	13
Caesar & Loretz GmbH	Octyldodecanol	190961001	8
Caesar & Loretz GmbH	Octyldodecanol	19096102	16
Caesar & Loretz GmbH	Octyldodecanol	19096103	1
Caesar & Loretz GmbH	Octyldodecanol	19096105	28
Caesar & Loretz GmbH	Octyldodecanol	19132603	1
Caesar & Loretz GmbH	Octyldodecanol	192693001	21
Caesar & Loretz GmbH	Octyldodecanol	192693002	39
Caesar & Loretz GmbH	Octyldodecanol	192693004	10
Caesar & Loretz GmbH	Octyldodecanol	192693005	9
Caesar & Loretz GmbH	Octyldodecanol	192693009	3
Caesar & Loretz GmbH	Octyldodecanol	2000125002	1
Caesar & Loretz GmbH	Octyldodecanol	20001252001	16
CAESAR & LORETZ GMBH	Octyldodecanol	20001252001	2
Caesar & Loretz GmbH	Octyldodecanol	20001252002	8
Caesar & Loretz GmbH	Octyldodecanol	20003742003	10
Caesar & Loretz GmbH	Octyldodecanol	20003742004	14
Caesar & Loretz GmbH	Octyldodecanol	20003742006	9
Caesar & Loretz GmbH	Octyldodecanol	20003742007	1
Caesar & Loretz GmbH	Octyldodecanol	21000064004	10
Caesar & Loretz GmbH	Octyldodecanol	21000064006	2
Caesar & Loretz GmbH	Octyldodecanol	21000064009	3
Caesar & Loretz GmbH	Octyldodecanol	21002182002	4
Caesar & Loretz GmbH	Octyldodecanol	21002182003	4
Caesar & Loretz GmbH	Octyldodecanol	21002182006	6
Caesar & Loretz GmbH	Octyldodecanol	21002182007	5
Caesar & Loretz GmbHAnzag	Octyldodecanol	20003742006	1
Caesar & Loretz GmbH-Ph...	Octyldodecanol	19096102	1
Caesar & Loretz Hilden/...	Octyldodecanol	192693001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz/ Noweda	Octyldodecanol	13044009	1
Caesar & Loretz/AHC	Octyldodecanol	16095503	1
Caesar & Loretz/Noweda	Octyldodecanol	16095503	2
Caesar & Loretz	Octyldodecanol	16095508	1
Caesar & Loretz	Octyldodecanol	16312707	1
Caesar & Loretz	Octyldodecanol	17273008	1
Caesar Loretz	Octyldodecanol	192693002	2
Caesar und Loretz GmbH	Octyldodecanol	19013602	2
Caesar&Lorenz / Gehe	Octyldodecanol	1900961001	1
Caesar&Loretz GmbH,09.0...	Octyldodecanol	16095507	1
Caesar&Loretz GmbH	Octyldodecanol	15383004	1
Caesar&Loretz GmbH	Octyldodecanol	18112006	1
Caesar&Loretz GmbH	Octyldodecanol	20001252002	1
Caesar&loretz,Phoenix	Octyldodecanol	13044016	1
Caesar&loretz,Phoenix	Octyldodecanol	13360006	1
Caesar&loretz,Phoenix	Octyldodecanol	14371711	1
caesar&loretz,Phönix	Octyldodecanol	15135206	1
Caesar&Loretz/Phönix	Octyldodecanol		1
Caesar&Loretz	Octyldodecanol	16095502	1
Caesar/Lorenz	Octyldodecanol	13044009	1
Caesar/Noweda	Octyldodecanol	13044009	1
Caesar/Noweda	Octyldodecanol	13222010	1
Caesar/Noweda	Octyldodecanol	15135207	1
Caolo	Octyldodecanol	15383005	1
Cealo / Noweda	Octyldodecanol	13222008	1
Cealo/Anzag	Octyldodecanol	16312701	2
Cealo/Noweda	Octyldodecanol	17138102	1
Cealo/Noweda	Octyldodecanol	17273008	1
Cealo/Phoenix	Octyldodecanol	19013609	1
Cealo	Octyldodecanol	16095503	1
Cealo	Octyldodecanol	18112002	1
E-Plus	Octyldodecanol	18112001	1
Euro OTC	Octyldodecanol		1
Euro OTC	Octyldodecanol	13044015	1
Euro OTC	Octyldodecanol	15383004	1
Euro OTC	Octyldodecanol	16095506	1
Euro OTC	Octyldodecanol	16095511	1
Euro OTC	Octyldodecanol	16312701	1
Euro OTC	Octyldodecanol	17273003	3
Euro OTC	Octyldodecanol	19013602	2
Euro/Phönix	Octyldodecanol	15383009	1
Fagron	Octyldodecanol	10598578	1
Fagron	Octyldodecanol	11J13-N05	5
Fagron	Octyldodecanol	12C21-N03	3
Fagron	Octyldodecanol	12C31-N03	1
Fagron	Octyldodecanol	12J04-N01	3
Fagron	Octyldodecanol	13E07-N03	3
Fagron	Octyldodecanol	13L02-B05	2
Fagron	Octyldodecanol	13L02-B05-288975	1
Fagron	Octyldodecanol	14E06-B02	5
Fagron	Octyldodecanol	14e06-b02-293745	1
Fagron	Octyldodecanol	14E06-B02-293745	1
Fagron	Octyldodecanol	14E06-B02-293746	1
Fagron	Octyldodecanol	14E06-B02-30170	1
Fagron	Octyldodecanol	14E06-B02-301705	2
Fagron	Octyldodecanol	14E06-B02-301706	1
Fagron	Octyldodecanol	15135213	1
Fagron	Octyldodecanol	15383004	1
Fagron	Octyldodecanol	15383008	1
Fagron	Octyldodecanol	15E06-B02-30170	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Octyldodecanol	16095502	1
Fagron	Octyldodecanol	16312701	1
Fagron	Octyldodecanol	16G20-B99-324356	12
Fagron	Octyldodecanol	17138102	1
Fagron	Octyldodecanol	17273002	3
Fagron	Octyldodecanol	17273008	1
Fagron	Octyldodecanol	18112004	1
Fagron	Octyldodecanol	18112008	1
Fagron	Octyldodecanol	18112011	2
Fagron	Octyldodecanol	200714112-2	1
Fagron	Octyldodecanol	21J29-T02-088479	1
Fagron	Octyldodecanol	24835459	1
Fagron	Octyldodecanol	CE11350022	1
Fargon	Octyldodecanol	11C14-N14	1
Fiebig	Octyldodecanol	17273008	1
Fiebig	Octyldodecanol	18112002	1
Fiebig	Octyldodecanol	18112011	2
Fresenius	Octyldodecanol	300615100	1
Gehe amax	Octyldodecanol	15135211	1
GEHE	Octyldodecanol	1098685	1
Gehe	Octyldodecanol	11369012	1
Gehe	Octyldodecanol	11369021	1
Gehe	Octyldodecanol	12165506	1
Gehe	Octyldodecanol	12165515	1
Gehe	Octyldodecanol	12165519	1
Gehe	Octyldodecanol	13044013	1
Gehe	Octyldodecanol	13360003	1
Gehe	Octyldodecanol	13360006	1
Gehe	Octyldodecanol	13360012	1
Gehe	Octyldodecanol	14371711	1
Gehe	Octyldodecanol	15135213	3
Gehe	Octyldodecanol	15383009	1
Gehe	Octyldodecanol	16095502	1
Gehe	Octyldodecanol	16095503	1
GEHE	Octyldodecanol	16095507	1
Gehe	Octyldodecanol	16312701	3
GEHE	Octyldodecanol	16312701	1
Gehe	Octyldodecanol	17077701	1
Gehe	Octyldodecanol	17138102	2
Gehe	Octyldodecanol	17138105	2
gehe	Octyldodecanol	17138109	1
Gehe	Octyldodecanol	17138109	2
Gehe	Octyldodecanol	17273001	6
Gehe	Octyldodecanol	17273002	1
GEHE	Octyldodecanol	17273002	1
Gehe	Octyldodecanol	17273008	2
GEHE	Octyldodecanol	17273008	3
Gehe	Octyldodecanol	18112001	3
Gehe	Octyldodecanol	18112002	3
Gehe	Octyldodecanol	18112008	1
Gehe	Octyldodecanol	18112010	2
Gehe	Octyldodecanol	18112011	1
Gehe	Octyldodecanol	19013602	7
GEHE	Octyldodecanol	19013603	1
Gehe	Octyldodecanol	19013609	2
GEHE	Octyldodecanol	19013609	1
Gehe	Octyldodecanol	190961001	1
Gehe	Octyldodecanol	19096101	1
gehe	Octyldodecanol	19096105	2
Gehe	Octyldodecanol	19096105	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Octyldodecanol	192693001	1
Gehe	Octyldodecanol	20001252001	1
Gehe	Octyldodecanol	20003742004	1
Gehe	Octyldodecanol	21000064006	1
Gehe	Octyldodecanol	21004149006	1
Gehe	Octyldodecanol	31002182007	1
Hedinger / Noweda	Octyldodecanol	17273001	1
Hedinger/Noweda	Octyldodecanol	17138102	3
Henry Lamotte/Noweda	Octyldodecanol	17273003	4
Ichthyol/Phönix	Octyldodecanol	16095503	1
Ichtyol-Gesellschaft	Octyldodecanol	16095501	1
Kehr	Octyldodecanol	1098722	1
Kehr	Octyldodecanol	16312707	1
Kehr	Octyldodecanol	17138102	1
Kehr	Octyldodecanol	17273008	3
Klenk	Octyldodecanol	13360003	1
Krieger	Octyldodecanol	13360006	1
Krieger	Octyldodecanol	16312701	1
L12	Octyldodecanol	16095507	1
Nachprüfung von Juni 2018	Octyldodecanol	14371716	1
Nachprüfung	Octyldodecanol	1018J-02875	1
Nachprüfung	Octyldodecanol	AP200611-01	1
Nachprüfung	Octyldodecanol	AP201218-15	1
Nachprüfung	Octyldodecanol	AP211105-07	1
Noweda 10.07.2015	Octyldodecanol	14371714	1
Noweda/ Caesar&Lorenz G...	Octyldodecanol	19013609	1
Noweda	Octyldodecanol	1216551	1
Noweda	Octyldodecanol	12165515	1
Noweda	Octyldodecanol	13044005	1
Noweda	Octyldodecanol	13044013	1
Noweda	Octyldodecanol	13044016	1
Noweda	Octyldodecanol	13222003	1
Noweda	Octyldodecanol	13222008	1
Noweda	Octyldodecanol	13360002	1
Noweda	Octyldodecanol	13360003	1
Noweda	Octyldodecanol	13360012	1
Noweda	Octyldodecanol	14371705	1
Noweda	Octyldodecanol	15135213	1
Noweda	Octyldodecanol	15383009	1
Noweda	Octyldodecanol	16095511	3
Noweda	Octyldodecanol	16312701	1
Noweda	Octyldodecanol	17138102	1
Noweda	Octyldodecanol	17138103	1
Noweda	Octyldodecanol	17138105	1
Noweda	Octyldodecanol	17273001	2
Noweda	Octyldodecanol	18112001	1
Noweda	Octyldodecanol	18112004	2
Noweda	Octyldodecanol	18112011	2
Noweda	Octyldodecanol	19096105	1
Noweda	Octyldodecanol	19263002	1
Noweda	Octyldodecanol	20003742003	1
Noweda	Octyldodecanol	21000064004	1
Noweda	Octyldodecanol	21022171/7	1
P.W.Beyvers	Octyldodecanol	18112001	1
Pharmamacher/Noweda	Octyldodecanol	18112001	1
PHOENIX 30.06.2014	Octyldodecanol	13360011	1
Phoenix WE 22.03.17 EK...	Octyldodecanol	16095511	1
Phoenix/Fargon	Octyldodecanol	12J04-N01	1
Phoenix	Octyldodecanol	13360006	1
Phoenix	Octyldodecanol	14130207	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Octyldodecanol	14158411	1
Phoenix	Octyldodecanol	15383009	1
Phoenix	Octyldodecanol	16095503	1
Phoenix	Octyldodecanol	16312701	3
Phoenix	Octyldodecanol	17138102	1
Phoenix	Octyldodecanol	17138109	1
Phoenix	Octyldodecanol	17273002	1
Phoenix	Octyldodecanol	17273008	1
Phoenix	Octyldodecanol	18112001	3
Phoenix	Octyldodecanol	18112006	1
Phoenix	Octyldodecanol	18112008	2
Phoenix	Octyldodecanol	19013602	2
Phoenix	Octyldodecanol	19013603	3
phoenix	Octyldodecanol	19096102	1
Phoenix	Octyldodecanol	19096102	1
Phoenix	Octyldodecanol	19096105	3
Phoenix	Octyldodecanol	192693002	1
Phoenix	Octyldodecanol	20001252001	1
Phönix 08.11.12	Octyldodecanol	11369021	1
Phönix Gotha	Octyldodecanol	13044002	1
Phönix Gotha	Octyldodecanol	18112008	1
Phönix Gotha	Octyldodecanol	19013603	1
Phönix W.E:27.02.18 E...	Octyldodecanol	17273001	1
Phönix	Octyldodecanol	1098722	1
Phönix	Octyldodecanol	12165521	3
Phönix	Octyldodecanol	12J04-N01	1
Phönix	Octyldodecanol	13044005	1
Phönix	Octyldodecanol	13222008	1
Phönix	Octyldodecanol	14130206	1
Phönix	Octyldodecanol	1538009	1
Phönix	Octyldodecanol	16095506	1
Phönix	Octyldodecanol	17077701	1
Phönix	Octyldodecanol	17138105	1
Phönix	Octyldodecanol	17138109	1
Phönix	Octyldodecanol	17273001	2
Phönix	Octyldodecanol	17273002	2
Phönix	Octyldodecanol	18112002	2
Phönix	Octyldodecanol	18112008	4
Phönix	Octyldodecanol	20001252001	1
Phönix	Octyldodecanol	20001252002	1
Phönix	Octyldodecanol	20003742004	1
Phönix	Octyldodecanol	20003742006	3
PHÖNIX	Octyldodecanol	21000064004	1
Phönix	Octyldodecanol	3175	1
sanacorb	Octyldodecanol	18112001	2
Sanacorp WE:09.11.17 10...	Octyldodecanol	17138105	1
Sanacorp WE:21.12.17 E...	Octyldodecanol	17138109	1
Sanacorp/ Caeser & Lore...	Octyldodecanol	19013603	3
Sanacorp	Octyldodecanol	12142726	1
Sanacorp	Octyldodecanol	12165514	2
Sanacorp	Octyldodecanol	13044002	1
Sanacorp	Octyldodecanol	13044005	2
Sanacorp	Octyldodecanol	13222002	1
Sanacorp	Octyldodecanol	13222003	4
Sanacorp	Octyldodecanol	13222008	1
Sanacorp	Octyldodecanol	13360006	1
Sanacorp	Octyldodecanol	13E07-N07	1
Sanacorp	Octyldodecanol	13102-b05-288974	1
sanacorp	Octyldodecanol	14130207	2
sanacorp	Octyldodecanol	14371706	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Octyldodecanol	14371706	1
Sanacorp	Octyldodecanol	14371711	1
Sanacorp	Octyldodecanol	14371716	1
Sanacorp	Octyldodecanol	15383005	1
Sanacorp	Octyldodecanol	16312701	1
Sanacorp	Octyldodecanol	17138102	4
Sanacorp	Octyldodecanol	17138105	1
Sanacorp	Octyldodecanol	17273001	1
Sanacorp	Octyldodecanol	18112002	1
Sanacorp	Octyldodecanol	18112006	1
Sanacorp	Octyldodecanol	18112008	1
Sanacorp	Octyldodecanol	19013602	1
Sanacorp	Octyldodecanol	19013603	1
Sanacorp	Octyldodecanol	19013609	2
Sanacorp	Octyldodecanol	19013610	1
Sanacorp	Octyldodecanol	192693009	1
Sanacorp	Octyldodecanol	21000064004	1
Sanacorp	Octyldodecanol	AKD31	1
Spangropharm	Octyldodecanol	11060317	1
Spangropharm	Octyldodecanol	20001252001	2
VDL 30.04.14_5.77 euro	Octyldodecanol	13360006	1
VDL,5,77EUR; 27.04.15	Octyldodecanol	14371711	2
VDL; 5,77EUR;21.01.2015	Octyldodecanol	14158402	1
VDL;15.3.16;5,75EUR	Octyldodecanol	15383005	1

- 293 020 spectra from 1324 *Apo-Ident* customers from a total of 52 674 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Octyldodecanol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Octyldodecanol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	300	0	68 199
Type B	0	200	0	111 113
Type C	0	4427	11	293 020

The substance/substance group *Octyldodecanol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 97.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.7521 % (> 99.6845 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several

new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Octyldodecanol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Macrogol-2-laurylether	30.01	–
Hydrophilic ointment DAB	31.59	–
Macrogol 8 stereate type I	32.32	–
Paraffin, white	37.01	–
Paraffin, yellow	38.84	–
Wool alcohol ointment SR with white pa…	38.98	–
Triglycerol diisostearate	42.05	–
Eye paraffin	43.58	–
Cetiol® HE	45.84	–
Permethrin 25% solution	46.23	–
Polysorbate 60	46.85	–
Softisan® 649	47.71	–
Wool alcohol ointment DAB	49.04	–
Unguentum Cordes®	49.62	–
Lauromacrogol 400	53.50	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Octyldodecanol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30867	31330	3.98	52.84
31330	31330	0.00	53.62
31753	33093	3.23	56.48
32958	33093	4.62	55.39
33093	33093	0.00	55.09
34468	34468	0.00	55.99
34471	34471	0.00	53.09

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Oleic acid**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`32471-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Oleic acid; Acidum oleicum

Special notes

When selecting the *Oleic acid* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Oleic acid	3	2	1

Second-stage model

For differentiation of the substance/substance group *Oleic acid* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Oleic acid*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Oleic acid	15298701	32471	40	1702061
Caelo	Oleic acid	163091	33076	40	20161212*
Caelo	Oleic acid	20001055	35037	40	20200506*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 120 spectra of 3 reference samples from the substance/substance group *Oleic acid*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.

- 68 379 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Oleic acid*.

- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Oleic acid	172741	33898	40
Caelo	Oleic acid	21000914	35283	40
Caelo	Oleic acid	15298701	32475	40
Caelo	Oleic acid	15298701	32747	40

- 111 153 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1 spectra from 1 *Apo-Ident* customers from 1 batches from the substance/substance group *Oleic acid*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Oleic acid	16309108	1

- 297 457 spectra from 1324 *Apo-Ident* customers from a total of 52 986 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Oleic acid* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Oleic acid* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	120	0	68 379
Type B	0	160	0	111 153
Type C	0	1	0	297 457

The substance/substance group *Oleic acid* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6963 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Oleic acid* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Pasta Cordes®	35.72	–
Metronidazole 25% in white petrolatum	40.24	–
Shea butter, refined	41.25	–
Permethrin 25% solution	42.25	–
Avocado oil, refined	58.90	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Oleic acid* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
32471	32471	0.00	58.05
33076	33076	0.00	62.52
35037	35037	0.00	62.59

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Oregano oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30669-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Oregano oil

Special notes

When selecting the *Oregano oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Oregano oil	6	2	21

Second-stage model

For differentiation of the substance/substance group *Oregano oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Oregano oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Oregano oil	11247605	30669	40	20110829
Caelo	Oregano oil	13354002	31196	40	1502253
Caelo	Oregano oil	13354007	31302	40	20131028
Caelo	Oregano oil	13354006	31406	40	20131028
Caelo	Oregano oil	14242905	31788	60	20140904
Caelo	Oregano oil	22001837002	36476	40	20220615

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 260 spectra of 6 reference samples from the substance/substance group *Oregano oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 239 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 150 spectra of 3 reference samples from the substance/substance group *Oregano oil*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Oregano oil	16011001	32070	60
Caelo	Oregano oil	20003985002	35858	50
Caelo	Oregano oil	16011001	33469	40

- 111 163 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 37 spectra from 13 *Apo-Ident* customers from 23 batches from the substance/substance group *Oregano oil*.
- Among them are spectra of independent samples from 21 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
/Anzag	Oregano oil	46027A-5558	1
Apotheker S Bauer&Comp	Oregano oil	90131-59-2	1
Caelo	Oregano oil	12347604	2
Caelo	Oregano oil	15248805	1
Caelo	Oregano oil	16011001	1
Caelo	Oregano oil	1601101	1
Caelo	Oregano oil	16269801	1
Caelo	Oregano oil	18068701	2
Caelo	Oregano oil	191553002	1
Caelo	Oregano oil	191553003	4
Caelo	Oregano oil	2000395001	1
Caelo	Oregano oil	20003985001	5
Caelo	Oregano oil	20004191002	4
Caelo	Oregano oil	20004191004	2
Caelo	Oregano oil	22001837001	1
Caelo	Oregano oil	22001837002	1
Caesar & Loretz GmbH	Oregano oil	20004191001	1
Euro OTC	Oregano oil	4431a-3102	1
Noweda/Taoasis	Oregano oil	43878A-123313	1
Taoasis / Phönix	Oregano oil	4431A-1967	1
Taoasis / Phönix	Oregano oil	4431A-3102	1
Taoasis	Oregano oil	124744	1
Taoasis	Oregano oil	43878A-123313	1
Taoasis	Oregano oil	43878A-127300	1

- 297 421 spectra from 1324 *Apo-Ident* customers from a total of 52 964 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Oregano oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Oregano oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	260	0	68 239
Type B	0	150	0	111 163
Type C	0	34	3	297 421

The substance/substance group *Oregano oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.6923 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.0000 %)
Type C	100.0000 % (> 99.6877 %)	91.8919 % (> 83.7838 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Oregano oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Thyme oil, thymol type	32.97	–
Coriander oil	113.10	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Oregano oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30669	31196	6.55	52.27
31196	31196	0.00	50.31
31302	31196	2.97	48.86
31406	31196	6.56	49.29
31788	31196	8.27	48.60
36476	31196	5.50	52.40

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Paraffin classification**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30932-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Paraffin classification; Abwaschbare Salbengrundlage (NRF S.31); Emulsifying hydrophobic base gel DAC; Eye ointment, emulsifying DAC; Eye paraffin; Gelatum basalis hydrophobicum; Gelatum basalis hydrophobicum emulsificans; Hydrophilic ointment DAB; Hydrophobic base gel DAC; Lanae alcoholum unguentum; Oculentum emulsificans DAC; Paraffin, light liquid; Paraffin, liquid; Paraffin, white; Paraffin, yellow; Paraffinum liquidum; Paraffinum perliquidum; Unguentum alcoholum lanae SR; Unguentum Alcoholum Lanae SR/DAC; Unguentum Cordes®; Unguentum Cordes®; Unguentum emulsificans DAB; Vaseline, white; Vaseline, yellow; Vaselinum album; Vaselinum album pro opthalmicum; Vaselinum flavum; Wool alcohol ointment DAB; Wool alcohol ointment SR with white paraffin; Wool alcohol ointment SR/DAC

Special notes

When selecting the *Paraffin classification* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Paraffin classification	95	187	4470

Second-stage model

For differentiation of the substance/substance group *Paraffin classification* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Paraffin classification*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Abwaschbare Salb...	180622	34160	40	20180215*
Caelo	Abwaschbare Salb...	19000678	34980	40	20191217*
Caelo	Abwaschbare Salb...	21000937	35378	40	20210323*
Caelo	Abwaschbare Salb...	21001433	35518	50	20210505*
Caelo	Abwaschbare Salb...	21002194	35607	50	20210730*
Caelo	Emulsifying hydr...	12343501	30933	40	1405098
Caelo	Emulsifying hydr...	14276401	31570	60	AR-15-FG-014916-01
Caelo	Emulsifying hydr...	153311	31920	60	20151006*
Caelo	Emulsifying hydr...	162259	32518	40	20160812*
Caelo	Emulsifying hydr...	162260	32519	40	20160812*
Caelo	Emulsifying hydr...	170321	33124	40	20170206*
Caelo	Emulsifying hydr...	170322	33132	40	20170206*
Caelo	Emulsifying hydr...	170323	33133	40	20170206*
Caelo	Emulsifying hydr...	171137	33396	40	20170426*
Caelo	Emulsifying hydr...	171253	33398	40	20170509*
Caelo	Emulsifying hydr...	171137	33399	40	20170426*
Caelo	Emulsifying hydr...	171979	33545	40	20170713*
Caelo	Emulsifying hydr...	183158	34545	40	20181212*
apomix	Eye ointment, em...	15B241013	31174	40	1405331
apomix	Eye ointment, em...	06A090516	32946	40	20160517
apomix	Eye ointment, em...	10A041016	32947	40	20161017
apomix	Eye ointment, em...	10A050919	34678	40	20190916
apomix	Eye ointment, em...	06B070621	35848	50	20210614
Caelo	Eye paraffin	13338710	31445	40	20131108
Caelo	Eye paraffin	13338711	31610	60	AR-15-FG-008217-01
Caelo	Eye paraffin	162718	32900	40	20161020*
Caelo	Eye paraffin	21003851	36155	40	20220207*
Caelo	Hydrophilic oint...	14024802	31456	40	AR-14-FG-012697-01
Caelo	Hydrophilic oint...	14024802	31567	60	20140129
Caelo	Hydrophilic oint...	13245302	31611	60	20131008
Caelo	Hydrophilic oint...	154164	31909	60	20151215*
Caelo	Hydrophilic oint...	154165	31910	60	20151215*
Caelo	Hydrophilic oint...	21003015	35986	40	20211201*
Caelo	Hydrophilic oint...	22001578	36409	40	20220713*
Fagron	Hydrophilic oint...	14G08-T08-013954	31612	60	20140829
Fagron	Hydrophilic oint...	19D25-T11-066650	34675	40	20190805
Caelo	Hydrophobic base...	12229003	30932	40	1405121
Caelo	Hydrophobic base...	13299604	31168	40	20130909
Caelo	Hydrophobic base...	14044601	31446	40	AR-15-FG-007940-01
Caelo	Hydrophobic base...	22000134	36140	40	20220302*
Caelo	Paraffin, light ...	13248007	34550	60	AR-15-FG-002534-01
Caelo	Paraffin, light ...	161710	34555	40	20160704*

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Euro OTC	Paraffin, light ...	1409007-01	34551	60	20140929
Euro OTC	Paraffin, light ...	1506021	34552	60	20150622*
Euro OTC	Paraffin, light ...	1511029	34553	60	20151208*
Fagron	Paraffin, light ...	15B18-B01-333364	34559	40	20150302
Caelo	Paraffin, liquid	12324307	34858	40	20121031
Caelo	Paraffin, liquid	13390602	34859	60	AR-15-FG-002530-01
Euro OTC	Paraffin, liquid	1509011	34860	60	20150918*
Euro OTC	Paraffin, liquid	1511030	34861	60	20151208*
Euro OTC	Paraffin, liquid	1607039	34865	40	20160826*
Fagron	Paraffin, liquid	16E30-B05-327577	34867	40	20160614
Bombastus	Paraffin, white	290271	31601	60	20140929
Bombastus	Paraffin, white	19001675	34509	40	20190322
Caelo	Paraffin, white	12374502	31009	40	20130102
Caelo	Paraffin, white	12032413	31010	40	20120203
Caelo	Paraffin, white	13341601	31437	40	20131108
Caelo	Paraffin, white	13268421	31468	40	20130823
Caelo	Paraffin, white	153276	31916	60	20151001*
Caelo	Paraffin, white	153368	31917	60	20151012*
Caelo	Paraffin, white	153368	31918	60	20151012*
Caelo	Paraffin, white	162274	32495	40	20160804*
Euro OTC	Paraffin, white	1405014-01	31590	60	20140702
Euro OTC	Paraffin, white	1509019	31736	70	20150929*
Fagron	Paraffin, white	18K01-T06-063753	34510	40	20190227
Fagron	Paraffin, white	17E02-T01-049359	34511	40	20171123
Caelo	Paraffin, yellow	12321908	31473	40	AR-15-FG-002511-01
Caelo	Paraffin, yellow	153304	31940	60	20151001*
Caelo	Paraffin, yellow	153305	31941	60	20151001*
Caelo	Paraffin, yellow	22002082	36432	40	20220728*
Euro OTC	Paraffin, yellow	1401017-01	31541	60	20140210
Euro OTC	Paraffin, yellow	1401017-01	31586	60	20140210
Euro OTC	Paraffin, yellow	1811024-01	34433	40	20190122
Euro OTC	Paraffin, yellow	1904027	34498	40	20190527*
Ichthyol	Unguentum Cordes®	13A067	31602	60	1507406
Ichthyol	Unguentum Cordes®	15A137	31807	60	20150804
Ichthyol	Unguentum Cordes®	15A150	31954	60	20150930
Ichthyol	Unguentum Cordes®	20A0125	34838	40	20200525
Ichthyol	Unguentum Cordes®	20A0126	34844	40	20200526
Ichthyol	Unguentum Cordes®	20A0049	35103	40	20200324
Caelo	Wool alcohol oin...	12244302	31228	70	AR-15-FG-001376-01
Caelo	Wool alcohol oin...	14067001	31441	40	20140307
Caelo	Wool alcohol oin...	153421	31999	40	20151012*
Caelo	Wool alcohol oin...	153562	32017	60	20151028*
Caelo	Wool alcohol oin...	20001899	35324	40	20200622*
Euro OTC	Wool alcohol oin...	1211017-01	31522	60	AR-14-FG-012695-01
Euro OTC	Wool alcohol oin...	1608040	32777	40	20160915*
Euro OTC	Wool alcohol oin...	1911030	34813	40	20200127*
Caelo	Wool alcohol oin...	14032501	31272	40	1507263
Caelo	Wool alcohol oin...	153347	31921	60	20150930*
Caelo	Wool alcohol oin...	162513	32517	40	20160907*
Caelo	Wool alcohol oin...	16251301	33614	40	20160907
Caelo	Wool alcohol oin...	190042	34542	40	20190110*
Caelo	Wool alcohol oin...	191899	34799	40	20190723*
Caelo	Wool alcohol oin...	21000778	35362	40	20210312*
apomix	Wool alcohol oin...	02A070515	31744	60	AR-16-FG-004495-01
apomix	Wool alcohol oin...	01A180215	31949	60	20150223
apomix	Wool alcohol oin...	01A210519	34679	40	20190520
Bombastus	Wool alcohol oin...	21003052	36199	40	20210727

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 4690 spectra of 99 reference samples from the substance/substance group *Paraffin classification*. These samples are listed above in the *calibration samples* section. The reference samples come from 95 different batches.

- 63 809 spectra from a total of 1318 batches from further 215 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 7741 spectra of 193 reference samples from the substance/substance group *Paraffin classification*.

- Among them are spectra of independent samples from 187 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Abwaschbare Salbengrundlage ...	182529	34308	40
Caelo	Abwaschbare Salbengrundlage ...	22000866	36248	40
Caelo	Abwaschbare Salbengrundlage ...	22002037	36418	40
Caelo	Emulsifying hydrophobic base...	181406	34155	40
Caelo	Emulsifying hydrophobic base...	182502	34307	40
Caelo	Emulsifying hydrophobic base...	192443	34801	40
Caelo	Emulsifying hydrophobic base...	20000220	34854	40
Caelo	Emulsifying hydrophobic base...	20001587	34855	40
Caelo	Emulsifying hydrophobic base...	20003042	35151	40
Caelo	Emulsifying hydrophobic base...	21000556	35376	40
Caelo	Emulsifying hydrophobic base...	21000557	35377	40
Caelo	Emulsifying hydrophobic base...	21002112	35605	50
Caelo	Emulsifying hydrophobic base...	21002113	35606	50
Caelo	Emulsifying hydrophobic base...	21003145	35940	40
apomix	Eye ointment, emulsifying DAC	08A150517	33503	40
apomix	Eye ointment, emulsifying DAC	13C071216	33504	40
apomix	Eye ointment, emulsifying DAC	13A121120	35144	40
apomix	Eye ointment, emulsifying DAC	03B140322	36231	40
Caelo	Eye paraffin	15441514	33491	40

continued on the next page

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Eye paraffin	20000627002	35749	50
Bombastus	Hydrophilic ointment DAB	21003588	36209	40
Caelo	Hydrophilic ointment DAB	161668	32389	40
Caelo	Hydrophilic ointment DAB	161670	32391	40
Caelo	Hydrophilic ointment DAB	162824	32866	40
Caelo	Hydrophilic ointment DAB	162825	32867	40
Caelo	Hydrophilic ointment DAB	162826	32868	40
Caelo	Hydrophilic ointment DAB	162827	32869	40
Caelo	Hydrophilic ointment DAB	162828	32870	40
Caelo	Hydrophilic ointment DAB	170403	33134	40
Caelo	Hydrophilic ointment DAB	170406	33135	40
Caelo	Hydrophilic ointment DAB	170402	33159	40
Caelo	Hydrophilic ointment DAB	170405	33160	40
Caelo	Hydrophilic ointment DAB	171855	33554	40
Caelo	Hydrophilic ointment DAB	171563	33555	40
Caelo	Hydrophilic ointment DAB	171564	33556	40
Caelo	Hydrophilic ointment DAB	170830	34025	40
Caelo	Hydrophilic ointment DAB	172906	34026	40
Caelo	Hydrophilic ointment DAB	173302	34027	40
Caelo	Hydrophilic ointment DAB	182075	34261	40
Caelo	Hydrophilic ointment DAB	191909	34781	40
Caelo	Hydrophilic ointment DAB	20002047	35098	40
Caelo	Hydrophilic ointment DAB	21000361	35331	40
Caelo	Hydrophilic ointment DAB	21000362	35332	40
Caelo	Hydrophilic ointment DAB	21000363	35333	40
Caelo	Hydrophilic ointment DAB	21000364	35334	40
Caelo	Hydrophilic ointment DAB	21000365	35335	40
Caelo	Hydrophilic ointment DAB	21001473	35521	50
Caelo	Hydrophilic ointment DAB	21001471	35522	50
Caelo	Hydrophilic ointment DAB	21001474	35523	50
Caelo	Hydrophilic ointment DAB	21003016	36014	10
Caelo	Hydrophilic ointment DAB	21004065	36094	40
Caelo	Hydrophilic ointment DAB	21004066	36095	10
Caelo	Hydrophilic ointment DAB	21004067	36096	40
Caelo	Hydrophilic ointment DAB	22001579	36410	10
Caelo	Hydrophilic ointment DAB	22001581	36411	10
Bombastus	Hydrophobic base gel DAC	21005139	36207	40
Caelo	Hydrophobic base gel DAC	16151105	33223	40
Caelo	Hydrophobic base gel DAC	173204	34018	40
Caelo	Hydrophobic base gel DAC	21001592	35515	50
Bombastus	Paraffin, light liquid	21004923	36178	40
Caelo	Paraffin, light liquid	12102101	34549	40
Euro OTC	Paraffin, light liquid	1604009	34554	40
Euro OTC	Paraffin, light liquid	1608007	34556	40
Euro OTC	Paraffin, light liquid	1701052	34557	40
Euro OTC	Paraffin, light liquid	1706017	34558	40
Euro OTC	Paraffin, light liquid	1802016	34560	40
Euro OTC	Paraffin, light liquid	1810001	34561	40
Euro OTC	Paraffin, light liquid	1902012	34562	40
Euro OTC	Paraffin, light liquid	1909016	34697	40
Euro OTC	Paraffin, light liquid	2006036	35080	40
Euro OTC	Paraffin, light liquid	2109015	35764	50
Euro OTC	Paraffin, light liquid	2205016	36365	40
Caelo	Paraffin, liquid	21002861	35896	50
Caelo	Paraffin, liquid	21002304	36180	40
Euro OTC	Paraffin, liquid	1904026	34659	40
Euro OTC	Paraffin, liquid	1909010	34694	40
Euro OTC	Paraffin, liquid	1602026	34862	40
Euro OTC	Paraffin, liquid	1604045	34863	40
Euro OTC	Paraffin, liquid	1606032	34864	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Euro OTC	Paraffin, liquid	1610017	34866	40
Euro OTC	Paraffin, liquid	1701033	34868	40
Euro OTC	Paraffin, liquid	1707002	34869	40
Euro OTC	Paraffin, liquid	1709002	34870	40
Euro OTC	Paraffin, liquid	1710025	34871	40
Euro OTC	Paraffin, liquid	1801041	34872	40
Euro OTC	Paraffin, liquid	1806004	34873	40
Euro OTC	Paraffin, liquid	1810002	34874	40
Euro OTC	Paraffin, liquid	1901011	34875	40
Euro OTC	Paraffin, liquid	2002013	35062	40
Euro OTC	Paraffin, liquid	2007019	35124	40
Euro OTC	Paraffin, liquid	2107029	35626	50
Fagron	Paraffin, liquid	19H09-T01-070898	34760	40
Bombastus	Paraffin, white	22000914	36211	40
Caelo	Paraffin, white	90292119	30006	39
Caelo	Paraffin, white	11374906	30466	30
Caelo	Paraffin, white	153497	31919	60
Caelo	Paraffin, white	161380	32223	40
Caelo	Paraffin, white	162411	32901	40
Caelo	Paraffin, white	21004079	36154	40
Caelo	Paraffin, white	22000502	36256	40
Caelo	Paraffin, white	22001817	36431	40
Euro OTC	Paraffin, white	1602009	32191	40
Euro OTC	Paraffin, white	1605019	32282	40
Euro OTC	Paraffin, white	1608041	32711	40
Euro OTC	Paraffin, white	1612007	32982	40
Euro OTC	Paraffin, white	1705015	33445	40
Euro OTC	Paraffin, white	1709016	33659	40
Euro OTC	Paraffin, white	1712008	33934	40
Euro OTC	Paraffin, white	1804011	34098	40
Euro OTC	Paraffin, white	1811025-01	34434	40
Euro OTC	Paraffin, white	1904028	34661	40
Euro OTC	Paraffin, white	2003054	34836	40
Euro OTC	Paraffin, white	2101013	35245	40
Euro OTC	Paraffin, white	2109017	35905	50
Euro OTC	Paraffin, white	2208007	36561	40
Bombastus	Paraffin, yellow	22000236	36210	40
Caelo	Paraffin, yellow	153306	31942	60
Caelo	Paraffin, yellow	180920	34161	40
Caelo	Paraffin, yellow	181915	34255	40
Caelo	Paraffin, yellow	20000002	34981	40
Caelo	Paraffin, yellow	20001760	35110	40
Caelo	Paraffin, yellow	22002081	36433	10
Euro OTC	Paraffin, yellow	1701027	32987	40
Euro OTC	Paraffin, yellow	1705016	33444	42
Euro OTC	Paraffin, yellow	1709015	33663	40
Euro OTC	Paraffin, yellow	1804012	34099	40
Euro OTC	Paraffin, yellow	1911029	34810	40
Euro OTC	Paraffin, yellow	2206033	36388	40
Ichthyol	Unguentum Cordes®	16A061	32912	40
Ichthyol	Unguentum Cordes®	18A101	34364	40
Ichthyol	Unguentum Cordes®	21A0114	35752	50
Ichthyol	Unguentum Cordes®	20A0192	35757	50
Ichthyol	Unguentum Cordes®	22A0001	36377	40
Ichthyol	Unguentum Cordes®	22A0062	36378	40
Bombastus	Wool alcohol ointment DAB	22000956	36184	40
Caelo	Wool alcohol ointment DAB	153423	32011	60
Caelo	Wool alcohol ointment DAB	153424	32012	60
Caelo	Wool alcohol ointment DAB	153427	32013	60
Caelo	Wool alcohol ointment DAB	153428	32014	60

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Wool alcohol ointment DAB	153429	32015	60
Caelo	Wool alcohol ointment DAB	153558	32016	60
Caelo	Wool alcohol ointment DAB	153563	32018	60
Caelo	Wool alcohol ointment DAB	153619	32019	60
Caelo	Wool alcohol ointment DAB	153618	32020	60
Caelo	Wool alcohol ointment DAB	153620	32021	60
Caelo	Wool alcohol ointment DAB	161102	32098	40
Caelo	Wool alcohol ointment DAB	161101	32099	40
Caelo	Wool alcohol ointment DAB	161103	32100	40
Caelo	Wool alcohol ointment DAB	161104	32101	40
Caelo	Wool alcohol ointment DAB	161105	32102	40
Caelo	Wool alcohol ointment DAB	161106	32103	40
Caelo	Wool alcohol ointment DAB	161107	32104	40
Caelo	Wool alcohol ointment DAB	162488	32511	40
Caelo	Wool alcohol ointment DAB	162951	32864	40
Caelo	Wool alcohol ointment DAB	162952	32865	40
Caelo	Wool alcohol ointment DAB	163318	33184	40
Caelo	Wool alcohol ointment DAB	163317	33185	40
Caelo	Wool alcohol ointment DAB	172062	33547	40
Caelo	Wool alcohol ointment DAB	171416	33548	40
Caelo	Wool alcohol ointment DAB	182509	34353	40
Caelo	Wool alcohol ointment DAB	192090	34798	40
Caelo	Wool alcohol ointment DAB	21001945	35609	50
Caelo	Wool alcohol ointment DAB	21001946	35610	50
Caelo	Wool alcohol ointment DAB	21003589	35943	40
Caelo	Wool alcohol ointment DAB	21003590	35944	40
Caelo	Wool alcohol ointment DAB	21003591	35945	40
Caelo	Wool alcohol ointment DAB	22000242	36141	40
Caelo	Wool alcohol ointment DAB	22000243	36142	10
Caelo	Wool alcohol ointment DAB	22000244	36143	10
Caelo	Wool alcohol ointment DAB	22001231	36422	40
Caelo	Wool alcohol ointment DAB	22001233	36423	10
Caelo	Wool alcohol ointment DAB	22001234	36424	10
Caelo	Wool alcohol ointment DAB	22002122	36425	40
Caelo	Wool alcohol ointment DAB	22002123	36426	10
Caelo	Wool alcohol ointment DAB	22002125	36427	10
Caelo	Wool alcohol ointment DAB	22002179	36428	10
Euro OTC	Wool alcohol ointment DAB	1811023-01	34435	40
Euro OTC	Wool alcohol ointment DAB	2101042	35247	40
Euro OTC	Wool alcohol ointment DAB	2206006	36387	40
Caelo	Wool alcohol ointment SR wit…	180745	34143	40
Caelo	Wool alcohol ointment SR wit…	181899	34271	40
Caelo	Wool alcohol ointment SR wit…	19000657	34979	40
Caelo	Wool alcohol ointment SR wit…	20002124	35093	40
Caelo	Wool alcohol ointment SR wit…	20003440	35157	40
Caelo	Wool alcohol ointment SR wit…	22000043	35942	40
apomix	Wool alcohol ointment SR/DAC	01B310517	33615	40
apomix	Wool alcohol ointment SR/DAC	01C270721	36242	40
Caelo	Hydrophilic ointment DAB	161668	32390	40
Caelo	Paraffin, white	161380	32224	40
Caelo	Wool alcohol ointment DAB	162488	32512	40
Caelo	Wool alcohol ointment DAB	20001899	34962	40
Caelo	Wool alcohol ointment SR wit…	14032501	31448	40
apomix	Wool alcohol ointment SR/DAC	01B310517	33616	40

- 103 572 spectra from a total of 2477 batches from further 337 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B*

section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 28 152 spectra from 1262 *Apo-Ident* customers from 4360 batches from the substance/substance group *Paraffin classification*.
- Among them are spectra of independent samples from 4215 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Paraffin, white		1
	Paraffin, white	13341606	1
	Unguentum Cordes®	13A034	1
	Paraffin, white	162720105299	1
	Unguentum Cordes®	16A099	2
	Paraffin, white	18174305	1
	Hydrophobic base gel DAC	18240307	1
	Paraffin, white	279969	2
	Wool alcohol ointment SR wit...	291175	2
	Eye ointment, emulsifying DAC	4A010419	1
	Eye ointment, emulsifying DAC	68150317	1
04.03.20/Gehe/Ichtyol	Unguentum Cordes®	18A113	2
10Caesar & Loretz GmbH	Eye paraffin	21001982001	1
18092014	Paraffin, yellow	889574	1
20A0060	Unguentum Cordes®	20A0060	1
21.03.2017	Paraffin, yellow	12321902	1
A.H. 05.06.13 ek: 3,33EUR	Wool alcohol ointment DAB	13067101	1
A.H.D.	Unguentum Cordes®	15A060	1
Aallianc. Healthc. / Be...	Wool alcohol ointment DAB	82541010	1
Aallianc. Healthc./Icht...	Unguentum Cordes®	17A087	1
ACM	Paraffin, white	KNC1628J15	1
aep Cordes	Unguentum Cordes®	18A112	1
AEP/04.05.2021	Eye paraffin	20000627005	1
AEP	Hydrophilic ointment DAB	18207602	1
AEP	Hydrophilic ointment DAB	19025801	2
AEP	Paraffin, white	200003237001	1
AEP	Wool alcohol ointment DAB	21000939002	1
AEPD	Paraffin, white	21002294	1
AEPDirekt	Unguentum Cordes®	20A0126	1
AEPDirekt	Unguentum Cordes®	21A0094	1
AHC 08.07.13 EK5,61	Paraffin, white	12374502	1
AHC/Lamotte	Hydrophilic ointment DAB	8002320009	1
AHC	Unguentum Cordes®	15A192	1
AHC	Unguentum Cordes®	19A0149	1
AHC	Paraffin, liquid	20004108001	1
AHC	Hydrophilic ointment DAB	8005713007	1
AHD 06.02.17 EK.9,28	Wool alcohol ointment DAB	16198401	1
AHD, 05.04.2013	Wool alcohol ointment DAB	30831410	1
AHD, 30.09.2013	Paraffin, white	279970	1
Ahd/ Ichtyhol	Unguentum Cordes®	18A050	1
Ahd/ Ichtyhol	Unguentum Cordes®	18A166	1
AHD/Henry Lamotte	Paraffin, white	8002875007	3
AHD/Ichthyol	Unguentum Cordes®	18A051	1
AHD/Ichthyol	Unguentum Cordes®	20A0030	1
AHD/Ichthyol-Gesellschaft	Unguentum Cordes®	16A101	2
AHD	Paraffin, white	123test	1
AHD	Paraffin, white	13268410	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
AHD	Hydrophilic ointment DAB	14024803	1
AHD	Paraffin, white	14355806	1
AHD	Unguentum Cordes®	14A117	1
AHD	Eye paraffin	15441514	3
AHD	Unguentum Cordes®	15A021	1
AHD	Hydrophilic ointment DAB	16009301	1
AHD	Paraffin, white	16181901	3
AHD	Paraffin, white	16241105	4
AHD	Paraffin, white	16326706	1
AHD	Paraffin, white	16326707	1
AHD	Unguentum Cordes®	16A070	1
AHD	Unguentum Cordes®	16A085	1
AHD	Unguentum Cordes®	16A140	1
AHD	Paraffin, white	17106004	3
AHD	Paraffin, white	17106005	2
AHD	Hydrophilic ointment DAB	17330402	1
AHD	Eye paraffin	17342001	3
AHD	Eye paraffin	17342008	1
AHD	Paraffin, white	17347803	2
AHD	Unguentum Cordes®	17A045	1
AHD	Unguentum Cordes®	17A085	1
AHD	Paraffin, white	18005001	3
AHD	Wool alcohol ointment DAB	18005545	1
AHD	Emulsifying hydrophobic base...	18250301	1
AHD	Eye ointment, emulsifying DAC	18A021115	1
AHD	Unguentum Cordes®	18A070	1
AHD	Unguentum Cordes®	18A113	1
AHD	Unguentum Cordes®	18A131	3
AHD	Paraffin, yellow	19005892	1
AHD	Paraffin, white	19006208	2
AHD	Wool alcohol ointment SR/DAC	19006412	1
AHD	Wool alcohol ointment SR wit...	19189901	2
AHD	Paraffin, white	192008002	1
AHD	Unguentum Cordes®	19A004	1
AHD	Unguentum Cordes®	19A111	1
AHD	Wool alcohol ointment DAB	305879	1
AHD	Paraffin, white	5489700	1
AHD	Wool alcohol ointment DAB	72915810	1
AHD	Wool alcohol ointment DAB	74017010	2
AHD	Wool alcohol ointment DAB	81939510	1
AHD	Wool alcohol ointment DAB	84132310	1
AHL	Unguentum Cordes®	16A143	1
AHL	Unguentum Cordes®	17A049	1
AHL	Unguentum Cordes®	17A056	1
ALH	Wool alcohol ointment DAB	15407001	1
ALH	Unguentum Cordes®	16A061	1
Allianc. Health. / Icht...	Unguentum Cordes®	16A184	1
Allianc. Health. / Icht...	Unguentum Cordes®	18A111	1
Allianc. Health. /Beier...	Wool alcohol ointment DAB	62031710	1
Alliance Health 09.05.2...	Hydrophilic ointment DAB	14024701	1
Alliance Health 11.03.14	Unguentum Cordes®	13A090	1
Alliance Health 30.10.2...	Wool alcohol ointment DAB	14H19-T02-011354	1
Alliance Health	Unguentum Cordes®	13A032	1
Alliance health	Unguentum Cordes®	14A079	1
Alliance health	Unguentum Cordes®	15A023	1
Alliance Healthcare / H...	Hydrophilic ointment DAB	8004399001	1
alliance Healthcare/Bei...	Wool alcohol ointment DAB	30851510	1
Alliance Healthcare/Bei...	Wool alcohol ointment DAB	50454710	1
Alliance Healthcare/Bei...	Wool alcohol ointment DAB	84222410	1
Alliance Healthcare	Paraffin, white	12306302	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Alliance Healthcare	Hydrophilic ointment DAB	12311102	1
Alliance Healthcare	Wool alcohol ointment DAB	13114001	1
Alliance Healthcare	Hydrophilic ointment DAB	13117501	1
Alliance Healthcare	Hydrophobic base gel DAC	18004043	1
Alliance Healthcare	Unguentum Cordes®	18A048	1
Alliance Healthcare	Unguentum Cordes®	18A112	2
Alliance Healthcare	Unguentum Cordes®	18A131	2
Alliance Healthcare	Unguentum Cordes®	18A156	1
Alliance Healthcare	Paraffin, white	192540004	1
Alliance Healthcare	Paraffin, white	21002101005	1
Alliance Healthcare	Paraffin, white	276088	1
Alliance Healthcare	Paraffin, white	277444	1
Alliance Healthcare	Paraffin, yellow	303809	1
alliance healthcare	Wool alcohol ointment DAB	84222410	1
Alliance/ Ichtyol	Unguentum Cordes®	18A223	1
Alliance/Ichthyol	Unguentum Cordes®	18A156	1
Alliance/Ichthyol	Unguentum Cordes®	18A224	1
Alliance/Ichthyol	Unguentum Cordes®	19A0149	1
Alliance/Ichthyol	Unguentum Cordes®	20A0105	1
Alliance/Ichthyol	Unguentum Cordes®	20A0172	1
Alliance/Ichthyol-Gesel...	Unguentum Cordes®	18A223	1
Alliance/Ichthyol-Gesel...	Unguentum Cordes®	19A0154	1
Alliance/Ichthyol-Gesel...	Unguentum Cordes®	20A0049	2
Alliance/Ichthyol-Gesel...	Unguentum Cordes®	20A0153	1
Alliance/Ichtyol-Gesell...	Unguentum Cordes®	18A051	1
Alliance	Unguentum Cordes®	12A184	1
Alliance	Paraffin, white	13380720	1
Alliance	Unguentum Cordes®	15A020	1
alliance	Hydrophobic base gel DAC	18004043	1
alliance	Unguentum Cordes®	21A0114	1
Alliance	Wool alcohol ointment DAB	2831510	1
Alliance	Hydrophilic ointment DAB	303216009101	1
Alliance	Wool alcohol ointment DAB	93456310	1
Allianz Healthcare	Paraffin, white	16181904	1
Allianz Healthcare	Hydrophilic ointment DAB	17040301	1
Allianz Healthcare	Paraffin, white	18314803	1
Allianz Healthcare	Unguentum Cordes®	18a113	1
Allianz Healthcare	Unguentum Cordes®	18a223	1
Allianz Healthcare	Hydrophilic ointment DAB	19025401	1
Allianz Healthcare	Paraffin, white	19135404	1
Allianz Healthcare	Wool alcohol ointment DAB	19181901	1
Allianz	Hydrophobic base gel DAC	18075803	1
Allianz	Unguentum Cordes®	18A002	1
Alte Apotheke	Paraffin, white	16181902	1
AMH Niemann GmbH & Co.K...	Eye ointment, emulsifying DAC	1D100120	1
AMH Niemann GmbH	Eye ointment, emulsifying DAC	14C241120	1
AMH Niemann/E	Eye ointment, emulsifying DAC	1C080114	1
AMH Niemann/Sanacorp	Eye paraffin	17052003	1
AMH Niemann	Eye ointment, emulsifying DAC	2B050219	1
AMH NiemannGmbH&Co.KG	Eye ointment, emulsifying DAC	10B050919	1
AMH Niemannn GmbH	Eye ointment, emulsifying DAC	5B110416	1
AMH	Eye ointment, emulsifying DAC	16B011015	1
Anza	Paraffin, white	15162519	1
Anza	Paraffin, white	16181901	1
Anza	Unguentum Cordes®	16A181	1
Anza	Hydrophilic ointment DAB	305393	1
Anzag 17.03.2014 EK 13...	Hydrophilic ointment DAB	5448000	1
Anzag 25.02.2014 Ek 8...	Wool alcohol ointment DAB	13255001	1
Anzag 05.11.12	Emulsifying hydrophobic base...	271106	1
Anzag 08.10.12	Paraffin, white	270491	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag 15.03.13 ek: 5,61EUR	Paraffin, white	12209210	1
Anzag 26.09.2012	Unguentum Cordes®	11A202	1
Anzag 27.03.13 ek: 3,66EUR	Paraffin, white	12115101	1
Anzag 27.12.12 ek:5.45	Paraffin, white	12209204	1
Anzag 29.10.12	Unguentum Cordes®	12A007	1
Anzag Ek: 3,24EUR 11.09.12	Wool alcohol ointment DAB	12076601	1
Anzag, 03.01.2019	Unguentum Cordes®	17A087	1
Anzag/ Ichtyol	Unguentum Cordes®	13A029	1
Anzag/ Ichtyol	Unguentum Cordes®	18A224	1
Anzag/	Paraffin, white	12182505	2
Anzag/	Wool alcohol ointment DAB	23223410	1
Anzag/Beiersdorf	Wool alcohol ointment DAB	40930610	1
Anzag/Beiersdorf	Wool alcohol ointment DAB	50815310	1
Anzag/Cordes	Unguentum Cordes®	16A102	1
Anzag/Cordes	Unguentum Cordes®	16A184	1
Anzag/Henry Lamotte	Paraffin, white	15060014	1
Anzag/Ichthyol	Unguentum Cordes®	13A180	1
Anzag/Ichthyol	Unguentum Cordes®	17A045	1
Anzag/Ichthyol	Unguentum Cordes®	18A110	1
Anzag/Ichthyol	Unguentum Cordes®	19A005	1
Anzag/Ichthyol	Unguentum Cordes®	20A0090	1
Anzag/Ichthyol	Unguentum Cordes®	21A0185	1
Anzag/Ichthyol	Unguentum Cordes®	20AO173	1
Anzag/Ichtyol-Gesellsch...	Hydrophilic ointment DAB	16009201	1
Anzag	Paraffin, white	1105029-01	1
Anzag	Wool alcohol ointment DAB	11335101	1
ANZAG	Paraffin, white	12032413	1
Anzag	Paraffin, white	12209204	1
Anzag	Unguentum Cordes®	12A055	1
Anzag	Unguentum Cordes®	12A115	1
Anzag	Paraffin, white	13163701	1
Anzag	Unguentum Cordes®	13A172	1
Anzag	Paraffin, white	1402501	1
anzag	Unguentum Cordes®	14A079	1
Anzag	Paraffin, white	15349706	1
Anzag	Unguentum Cordes®	15A021	1
Anzag	Unguentum Cordes®	15A023	1
anzag	Unguentum Cordes®	15A062	1
anzag	Unguentum Cordes®	15a192	1
Anzag	Wool alcohol ointment DAB	16007201	1
Anzag	Hydrophobic base gel DAC	16172301	1
Anzag	Wool alcohol ointment DAB	16198502	1
Anzag	Wool alcohol ointment DAB	16331702	1
Anzag	Unguentum Cordes®	16A014	1
Anzag	Unguentum Cordes®	16A178	1
Anzag	Paraffin, white	17106005	1
Anzag	Hydrophilic ointment DAB	17290703	1
Anzag	Unguentum Cordes®	17A008	1
Anzag	Hydrophilic ointment DAB	18004577	1
Anzag	Paraffin, white	18005023	1
Anzag	Unguentum Cordes®	18A007	1
Anzag	Unguentum Cordes®	18A215	1
Anzag	Wool alcohol ointment DAB	19000472002	6
Anzag	Wool alcohol ointment DAB	19182301	2
Anzag	Paraffin, liquid	192559008	1
Anzag	Unguentum Cordes®	19A004	1
Anzag	Unguentum Cordes®	19A0153	1
Anzag	Unguentum Cordes®	19A0257	1
Anzag	Unguentum Cordes®	20A0090	1
Anzag	Unguentum Cordes®	20A0153	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag	Unguentum Cordes®	21A0164	1
Anzag	Wool alcohol ointment DAB	22412510	2
Anzag	Wool alcohol ointment DAB	24254010	1
Anzag	Hydrophilic ointment DAB	271047	1
Anzag	Wool alcohol ointment DAB	2711410	1
Anzag	Paraffin, white	271435	1
Anzag	Paraffin, white	285231	1
Anzag	Hydrophilic ointment DAB	293264	1
Anzag	Hydrophobic base gel DAC	294418	1
Anzag	Wool alcohol ointment DAB	3312E-01370	1
Anzag	Wool alcohol ointment DAB	51015610	1
Anzag	Wool alcohol ointment DAB	93456310	1
Apo Ident/ Noweda	Paraffin, white	16326707	1
Apo Ident/ Noweda	Wool alcohol ointment DAB	83241810	1
apo ident	Paraffin, white	1804011-01	1
Apoident/ Phoenix	Paraffin, liquid	2007019-01	1
apo-ident	Paraffin, liquid	2007019-02	1
apomix	Eye ointment, emulsifying DAC	10111021	1
apomix	Eye ointment, emulsifying DAC	10A010615	3
apomix	Eye ointment, emulsifying DAC	10A030818	1
apomix	Eye ointment, emulsifying DAC	10A041016	2
apomix	Eye ointment, emulsifying DAC	10A100717	1
apomix	Eye ointment, emulsifying DAC	10A210920	3
apomix	Eye ointment, emulsifying DAC	10B030818	1
apomix	Eye ointment, emulsifying DAC	10B041016	2
apomix	Eye ointment, emulsifying DAC	10B100717	1
apomix	Eye ointment, emulsifying DAC	10B210920	1
apomix	Eye ointment, emulsifying DAC	10C041016	3
apomix	Eye ointment, emulsifying DAC	10C050919	1
apomix	Eye ointment, emulsifying DAC	10C100717	1
apomix	Eye ointment, emulsifying DAC	10C210920	1
apomix	Eye ointment, emulsifying DAC	10D050919	1
apomix	Eye ointment, emulsifying DAC	10D210920	1
apomix	Eye ointment, emulsifying DAC	11A011116	4
apomix	Eye ointment, emulsifying DAC	11A030818	3
apomix	Eye ointment, emulsifying DAC	11A111021	1
apomix	Eye ointment, emulsifying DAC	11A170713	1
apomix	Paraffin, liquid	11A170719	1
apomix	Eye ointment, emulsifying DAC	11B011116	1
apomix	Eye ointment, emulsifying DAC	11B030818	1
apomix	Eye ointment, emulsifying DAC	11B030912	1
apomix	Eye ointment, emulsifying DAC	11B111021	1
apomix	Eye ointment, emulsifying DAC	11B170713	1
apomix	Eye ointment, emulsifying DAC	11B221020	3
apomix	Eye ointment, emulsifying DAC	11C110919	2
apomix	Eye ointment, emulsifying DAC	11C221020	3
apomix	Eye ointment, emulsifying DAC	11D030818	2
apomix	Eye ointment, emulsifying DAC	12A011019	2
apomix	Eye ointment, emulsifying DAC	12A070817	1
apomix	Eye ointment, emulsifying DAC	12A221020	1
apomix	Eye ointment, emulsifying DAC	12B070817	2
apomix	Eye ointment, emulsifying DAC	12B130918	1
apomix	Eye ointment, emulsifying DAC	12C010814	1
apomix	Eye ointment, emulsifying DAC	12C011012	1
apomix	Eye ointment, emulsifying DAC	12C011019	2
apomix	Eye ointment, emulsifying DAC	12C011116	2
apomix	Eye ointment, emulsifying DAC	12C070817	1
apomix	Eye ointment, emulsifying DAC	12C221020	1
apomix	Eye ointment, emulsifying DAC	12C300813	1
apomix	Eye ointment, emulsifying DAC	12D011019	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Eye ointment, emulsifying DAC	13A010715	1
apomix	Eye ointment, emulsifying DAC	13A071216	1
apomix	Eye ointment, emulsifying DAC	13A130918	1
apomix	Eye ointment, emulsifying DAC	13A151121	2
apomix	Eye ointment, emulsifying DAC	13B070817	2
apomix	Eye ointment, emulsifying DAC	13B071216	4
apomix	Eye ointment, emulsifying DAC	13B130918	2
apomix	Eye ointment, emulsifying DAC	13C071216	1
apomix	Eye ointment, emulsifying DAC	13C130918	1
apomix	Eye ointment, emulsifying DAC	13D07017	1
apomix	Eye ointment, emulsifying DAC	13D070817	3
apomix	Eye ointment, emulsifying DAC	13D101011	1
apomix	Wool alcohol ointment DAB	14153601	1
apomix	Eye ointment, emulsifying DAC	14A011013	3
apomix	Eye ointment, emulsifying DAC	14A091017	2
apomix	Eye ointment, emulsifying DAC	14A101018	2
apomix	Eye ointment, emulsifying DAC	14A161019	5
apomix	Eye ointment, emulsifying DAC	14b011013	1
apomix	Eye ointment, emulsifying DAC	14B101018	1
apomix	Eye ointment, emulsifying DAC	14B241120	2
apomix	Eye ointment, emulsifying DAC	14c081112	1
apomix	Eye ointment, emulsifying DAC	14C161019	2
apomix	Eye ointment, emulsifying DAC	14C170914	1
apomix	Eye ointment, emulsifying DAC	14C241120	1
apomix	Eye ointment, emulsifying DAC	14D091017	1
apomix	Eye ointment, emulsifying DAC	15A030815	1
apomix	Eye ointment, emulsifying DAC	15A031218	2
apomix	Eye ointment, emulsifying DAC	15A051119	2
apomix	Eye ointment, emulsifying DAC	15A170914	1
apomix	Eye ointment, emulsifying DAC	15A241013	1
apomix	Eye ointment, emulsifying DAC	15A241120	1
apomix	Eye ointment, emulsifying DAC	15B030815	1
apomix	Eye ointment, emulsifying DAC	15B051119	3
apomix	Eye ointment, emulsifying DAC	15B091017	1
apomix	Eye ointment, emulsifying DAC	15C030815	1
apomix	Eye ointment, emulsifying DAC	15C091017	1
apomix	Eye ointment, emulsifying DAC	15D030815	1
apomix	Eye ointment, emulsifying DAC	15D051119	1
apomix	Eye ointment, emulsifying DAC	16A031218	4
apomix	Eye ointment, emulsifying DAC	16A051119	1
apomix	Eye ointment, emulsifying DAC	16A141220	1
apomix	Eye ointment, emulsifying DAC	16A231014	1
apomix	Eye ointment, emulsifying DAC	16B011117	1
apomix	Eye ointment, emulsifying DAC	16B031218	2
apomix	Eye ointment, emulsifying DAC	16B051119	1
apomix	Eye ointment, emulsifying DAC	16B061212	1
apomix	Eye ointment, emulsifying DAC	16C011117	2
apomix	Eye ointment, emulsifying DAC	16C031218	1
apomix	Hydrophilic ointment DAB	17290701	1
apomix	Eye ointment, emulsifying DAC	17A111113	2
apomix	Unguentum Cordes®	17A142	1
apomix	Eye ointment, emulsifying DAC	17A231014	1
apomix	Eye ointment, emulsifying DAC	17B011117	2
apomix	Eye ointment, emulsifying DAC	17B111113	2
apomix	Eye ointment, emulsifying DAC	17C011117	1
apomix	Eye ointment, emulsifying DAC	17C061212	2
apomix	Eye ointment, emulsifying DAC	17C11117	1
apomix	Eye ointment, emulsifying DAC	18A021115	1
apomix	Eye ointment, emulsifying DAC	18B021214	2
apomix	Eye ointment, emulsifying DAC	18C021115	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Eye ointment, emulsifying DAC	18C021214	2
apomix	Hydrophilic ointment DAB	19190601	1
apomix	Eye ointment, emulsifying DAC	19A021214	1
apomix	Eye ointment, emulsifying DAC	19B021115	1
apomix	Eye ointment, emulsifying DAC	1A100120	2
apomix	Wool alcohol ointment SR wit…	1A110416	1
apomix	Wool alcohol ointment DAB	1A170214	1
apomix	Wool alcohol ointment SR wit…	1A180215	2
apomix	Eye ointment, emulsifying DAC	1B020117	1
apomix	Eye ointment, emulsifying DAC	1B020221	1
apomix	Eye ointment, emulsifying DAC	1B040116	1
apomix	Eye ointment, emulsifying DAC	1B070113	1
apomix	Eye ointment, emulsifying DAC	1B090119	1
apomix	Wool alcohol ointment SR/DAC	1B210519	2
apomix	Wool alcohol ointment SR/DAC	1B220120	1
apomix	Eye ointment, emulsifying DAC	1C080114	1
apomix	Eye ointment, emulsifying DAC	1C100120	2
apomix	Eye ointment, emulsifying DAC	1C180118	1
apomix	Eye ointment, emulsifying DAC	1D040116	2
apomix	Eye ointment, emulsifying DAC	1D100120	1
apomix	Eye ointment, emulsifying DAC	20B011215	1
apomix	Eye ointment, emulsifying DAC	20D011215	2
apomix	Wool alcohol ointment DAB	285950	1
apomix	Eye ointment, emulsifying DAC	2a050219	1
apomix	Eye ointment, emulsifying DAC	2A050219	3
apomix	Eye ointment, emulsifying DAC	2A070318	2
apomix	Wool alcohol ointment SR wit…	2A070515	1
apomix	Wool alcohol ointment SR wit…	2A080713	1
apomix	Eye ointment, emulsifying DAC	2A100120	2
apomix	Eye ointment, emulsifying DAC	2A140322	2
apomix	Wool alcohol ointment SR/DAC	2A201118	1
apomix	Wool alcohol ointment SR/DAC	2A221117	1
apomix	Eye ointment, emulsifying DAC	2B020117	1
apomix	Eye ointment, emulsifying DAC	2B050219	1
apomix	Eye ointment, emulsifying DAC	2C040116	2
apomix	Eye ointment, emulsifying DAC	2C050219	1
apomix	Eye ointment, emulsifying DAC	2C100120	1
apomix	Eye ointment, emulsifying DAC	2C110321	1
apomix	Eye ointment, emulsifying DAC	2D020117	3
apomix	Eye ointment, emulsifying DAC	2D040116	1
apomix	Eye ointment, emulsifying DAC	2D050219	1
apomix	Paraffin, white	306020	1
apomix	Eye ointment, emulsifying DAC	3270115	1
apomix	Eye ointment, emulsifying DAC	3A020320	3
apomix	Eye ointment, emulsifying DAC	3A060421	1
apomix	Eye ointment, emulsifying DAC	3A070318	1
apomix	Eye ointment, emulsifying DAC	3A180213	1
apomix	Eye ointment, emulsifying DAC	3B010316	1
apomix	Eye ointment, emulsifying DAC	3b060217	1
apomix	Eye ointment, emulsifying DAC	3B060217	1
apomix	Eye ointment, emulsifying DAC	3B060421	2
apomix	Eye ointment, emulsifying DAC	3B070319	2
apomix	Eye ointment, emulsifying DAC	3C060217	1
apomix	Eye ointment, emulsifying DAC	3C200114	2
apomix	Eye ointment, emulsifying DAC	3V060217	1
apomix	Eye ointment, emulsifying DAC	48200114	1
apomix	Eye ointment, emulsifying DAC	4A020320	1
apomix	Eye ointment, emulsifying DAC	4A260418	2
apomix	Eye ointment, emulsifying DAC	4B060217	1
apomix	Eye ointment, emulsifying DAC	4B200114	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Eye ointment, emulsifying DAC	4B260418	1
apomix	Eye ointment, emulsifying DAC	4C010419	3
apomix	Eye ointment, emulsifying DAC	4C020320	3
apomix	Eye ointment, emulsifying DAC	4C060217	1
apomix	Eye ointment, emulsifying DAC	4D010419	1
apomix	Wool alcohol ointment SR wit…	5231213	1
apomix	Eye ointment, emulsifying DAC	5A010419	1
apomix	Eye ointment, emulsifying DAC	5A030314	1
apomix	Eye ointment, emulsifying DAC	5A040520	2
apomix	Eye ointment, emulsifying DAC	5B010419	1
apomix	Eye ointment, emulsifying DAC	5B040520	5
apomix	Eye ointment, emulsifying DAC	5B110416	4
apomix	Eye ointment, emulsifying DAC	5B220413	1
apomix	Eye ointment, emulsifying DAC	5B260418	2
apomix	Eye ointment, emulsifying DAC	5C010419	1
apomix	Eye ointment, emulsifying DAC	5C260418	2
apomix	Eye ointment, emulsifying DAC	5D110416	1
apomix	Eye ointment, emulsifying DAC	60140519	1
apomix	Eye ointment, emulsifying DAC	6A040520	2
apomix	Eye ointment, emulsifying DAC	6A070618	1
apomix	Eye ointment, emulsifying DAC	6A070621	1
apomix	Eye ointment, emulsifying DAC	6A090516	1
apomix	Wool alcohol ointment SR wit…	6A110912	1
apomix	Eye ointment, emulsifying DAC	6A260418	1
apomix	Wool alcohol ointment SR wit…	6A290714	1
apomix	Eye ointment, emulsifying DAC	6B090516	2
apomix	Eye ointment, emulsifying DAC	6B140519	2
apomix	Eye ointment, emulsifying DAC	6B150317	2
apomix	Eye ointment, emulsifying DAC	6B260418	2
apomix	Eye ointment, emulsifying DAC	6C070621	1
apomix	Eye ointment, emulsifying DAC	6C090516	1
apomix	Eye ointment, emulsifying DAC	6C140519	1
apomix	Eye ointment, emulsifying DAC	6C260418	2
apomix	Eye ointment, emulsifying DAC	6D090516	1
apomix	Eye ointment, emulsifying DAC	6D140519	1
apomix	Eye ointment, emulsifying DAC	6D150317	1
apomix	Eye ointment, emulsifying DAC	7A010616	3
apomix	Eye ointment, emulsifying DAC	7A130720	1
apomix	Eye ointment, emulsifying DAC	7A140519	1
apomix	Eye ointment, emulsifying DAC	7A160315	1
apomix	Eye ointment, emulsifying DAC	7A180417	1
apomix	Eye ointment, emulsifying DAC	7A210513	1
apomix	Eye ointment, emulsifying DAC	7B010616	1
apomix	Eye ointment, emulsifying DAC	7B030314	1
apomix	Eye ointment, emulsifying DAC	7B070618	2
apomix	Eye ointment, emulsifying DAC	7B140519	2
apomix	Eye ointment, emulsifying DAC	7C040612	1
apomix	Eye ointment, emulsifying DAC	7C180417	2
apomix	Eye ointment, emulsifying DAC	7D180417	2
apomix	Eye ointment, emulsifying DAC	7D210513	1
apomix	Eye ointment, emulsifying DAC	8A140820	1
apomix	Eye ointment, emulsifying DAC	8B050719	1
apomix	Eye ointment, emulsifying DAC	8B140820	1
apomix	Eye ointment, emulsifying DAC	8B150517	1
apomix	Eye ointment, emulsifying DAC	8B270921	1
apomix	Eye ointment, emulsifying DAC	8C070618	2
apomix	Eye ointment, emulsifying DAC	8C270921	1
apomix	Eye ointment, emulsifying DAC	8D020414	1
apomix	Eye ointment, emulsifying DAC	9A050719	3
apomix	Eye ointment, emulsifying DAC	9A070618	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Eye ointment, emulsifying DAC	9A080415	2
apomix	Eye ointment, emulsifying DAC	9A190514	1
apomix	Eye ointment, emulsifying DAC	9A210920	2
apomix	Eye ointment, emulsifying DAC	9B050719	3
apomix	Eye ointment, emulsifying DAC	9B050916	2
apomix	Eye ointment, emulsifying DAC	9B150517	4
apomix	Eye ointment, emulsifying DAC	9B210920	1
apomix	Eye ointment, emulsifying DAC	9B25061	1
apomix	Eye ointment, emulsifying DAC	9B270921	2
apomix	Eye ointment, emulsifying DAC	9C050916	1
apomix	Eye ointment, emulsifying DAC	9C070618	1
apomix	Eye ointment, emulsifying DAC	9C150517	1
apomix	Eye ointment, emulsifying DAC	9C190514	1
apomix	Eye ointment, emulsifying DAC	9D050719	1
apomix	Eye ointment, emulsifying DAC	9D070618	1
Aponorm/Wepa	Hydrophilic ointment DAB	17185501	1
Apotheke/Defekturabfüll...	Wool alcohol ointment DAB		1
Apotheker Bauer & Cie. ...	Eye paraffin	17052010	1
athensteadt/Noweda	Wool alcohol ointment DAB	180041	1
Audor Pharma	Paraffin, white	18174302	1
Audor Pharma	Paraffin, white	2109017-01	1
Baiersdorf AG	Wool alcohol ointment DAB	40726610	1
Baiersdorf	Wool alcohol ointment DAB	4833010	1
Baiersdorf	Wool alcohol ointment DAB	82721410	1
Baiersdorf	Wool alcohol ointment DAB	83241810	1
Bambastus/Jenne	Wool alcohol ointment DAB	19003802	1
Bambustus/Noweda	Paraffin, white	295265	1
Bambustus/Noweda	Paraffin, white	296854	4
Bambynek/Gehe	Paraffin, white	303786	1
Bären Apotheke	Wool alcohol ointment DAB	16198502	1
Basiscreme	Paraffin, white	16L27-T01-042281	2
Bayersdorf/Phoenix	Wool alcohol ointment DAB	60429110	1
Bayersdorf	Wool alcohol ointment DAB	54137710	1
Bayersdorf	Wool alcohol ointment DAB	61149910	1
BDF Beiersdorf AG	Wool alcohol ointment DAB	31322010	1
BDF Beiersdorf	Wool alcohol ointment DAB	70444110	1
BDF Phönix	Wool alcohol ointment DAB	22422510	1
BDF/ Anzag	Wool alcohol ointment DAB	93436310	1
BDF/ Noweda	Wool alcohol ointment DAB	33343310	1
BDF/AHD	Wool alcohol ointment DAB	70434110	1
BDF/Anzag	Wool alcohol ointment DAB	1710910	1
BDF	Wool alcohol ointment DAB	33343310	1
BDF	Wool alcohol ointment DAB	43142910	1
bei	Wool alcohol ointment DAB	73035910	1
Beidersdorf/Kehr	Wool alcohol ointment DAB	72915810	1
Beieersdorf/ Noweda	Wool alcohol ointment DAB	61841610	1
Beieradorf	Wool alcohol ointment DAB	53437010	1
Beierdorf/ Phönix	Wool alcohol ointment DAB	63052310	2
Beierdorf	Wool alcohol ointment DAB	1710910	1
Beiersdof/Phoenix	Wool alcohol ointment DAB	60839310	1
Beiersdorf - Noweda	Wool alcohol ointment DAB	54157810	1
Beiersdorf (DAB 2010)	Wool alcohol ointment DAB	13658410	1
Beiersdorf (DAB 2010)	Wool alcohol ointment DAB	22412510	1
Beiersdorf / AEP	Wool alcohol ointment DAB	81819410	1
Beiersdorf / AHD	Wool alcohol ointment DAB	71214810	1
Beiersdorf / Alliance H...	Wool alcohol ointment DAB	83031710	1
beiersdorf / Alliance	Wool alcohol ointment DAB	93917110	2
Beiersdorf / Anzag	Wool alcohol ointment DAB	72925810	1
Beiersdorf / E	Wool alcohol ointment DAB	41940610	1
Beiersdorf / Fiebig	Wool alcohol ointment DAB	50815310	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf / G	Wool alcohol ointment DAB	71114510	1
Beiersdorf / G	Wool alcohol ointment DAB	84232410	1
Beiersdorf / Gehe	Wool alcohol ointment DAB	71114510	1
Beiersdorf / Gehe	Wool alcohol ointment DAB	71274810	1
Beiersdorf / Jenne	Wool alcohol ointment DAB	92125210	1
Beiersdorf / K	Wool alcohol ointment DAB	22142410	1
Beiersdorf / Kehr	Wool alcohol ointment DAB	2711410	1
Beiersdorf / Kehr	Wool alcohol ointment DAB	61149910	1
Beiersdorf / Kehr	Wool alcohol ointment DAB	94037210	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	1710910	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	1841110	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	24233910	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	2831510	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	33343310	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	34414610	2
Beiersdorf / Noweda	Wool alcohol ointment DAB	414610	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	41910710	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	50444710	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	50845210	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	50925410	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	51115710	2
Beiersdorf / Noweda	Wool alcohol ointment DAB	54147810	2
Beiersdorf / Noweda	Wool alcohol ointment DAB	54157810	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	74737410	2
Beiersdorf / Noweda	Wool alcohol ointment DAB	74757510	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	80331710	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	829110	1
Beiersdorf / Noweda	Wool alcohol ointment DAB	84132310	1
Beiersdorf / Phoenix	Wool alcohol ointment DAB	50935410	1
Beiersdorf / Phoenix	Wool alcohol ointment DAB	62031710	2
Beiersdorf / Phoenix	Wool alcohol ointment DAB	71114510	1
Beiersdorf / Phönix	Wool alcohol ointment DAB	62922210	1
Beiersdorf / Phönix	Wool alcohol ointment DAB	73035910	1
Beiersdorf / Phönix	Wool alcohol ointment DAB	74747510	1
Beiersdorf / Phönix	Wool alcohol ointment DAB	83742110	1
Beiersdorf / Sanacorp	Wool alcohol ointment DAB	2831510	1
Beiersdorf / Sanacorp	Wool alcohol ointment DAB	3712310	1
Beiersdorf / Sanacorp	Wool alcohol ointment DAB	53457110	1
Beiersdorf / Sanacorp	Wool alcohol ointment DAB	93917110	1
Beiersdorf / Sanacorp	Wool alcohol ointment DAB	94037210	1
Beiersdorf /	Wool alcohol ointment DAB	82521010	1
Beiersdorf /Alliance He...	Wool alcohol ointment DAB	54127710	1
Beiersdorf /Gehe	Wool alcohol ointment DAB	83241810	1
Beiersdorf /Gehe	Wool alcohol ointment DAB	83241820	1
Beiersdorf /Gehe	Wool alcohol ointment DAB	84232410	1
Beiersdorf /Gehe	Wool alcohol ointment DAB	93556410	1
Beiersdorf /Krieger	Wool alcohol ointment DAB	1710910	2
Beiersdorf /Krieger	Wool alcohol ointment DAB	4012410	1
Beiersdorf /Krieger	Wool alcohol ointment DAB	93556410	1
Beiersdorf /Krieger	Wool alcohol ointment DAB	94947710	1
Beiersdorf /Noweda	Wool alcohol ointment DAB	93456310	1
Beiersdorf /Phoenix	Wool alcohol ointment DAB	74757510	1
Beiersdorf /Sanacorp	Wool alcohol ointment DAB	51025610	1
Beiersdorf AG / Sanacorp	Wool alcohol ointment DAB	1821010	1
Beiersdorf AG / Gotha	Wool alcohol ointment DAB	94947710	1
Beiersdorf AG / Göttingen	Wool alcohol ointment DAB	70434110	1
Beiersdorf AG / Noweda	Wool alcohol ointment DAB	33753710	1
Beiersdorf AG / Phönix	Wool alcohol ointment DAB	40956810	1
Beiersdorf AG / Phönix	Wool alcohol ointment DAB	41940610	1
Beiersdorf AG Hamburg	Wool alcohol ointment DAB	2711410	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf AG/ GEHE	Wool alcohol ointment DAB	41829810	1
Beiersdorf AG/Geilenkir...	Wool alcohol ointment DAB	40726610	1
Beiersdorf AG/Kehr	Wool alcohol ointment DAB	1710910	1
Beiersdorf AG/NOWEDA	Wool alcohol ointment DAB	30831410	1
Beiersdorf AG/Noweda	Wool alcohol ointment DAB	33323210	2
Beiersdorf AG/Noweda	Wool alcohol ointment DAB	34414610	1
Beiersdorf AG/Noweda	Wool alcohol ointment DAB	50815310	1
Beiersdorf AG/NOWEDA	Wool alcohol ointment DAB	50845210	1
Beiersdorf AG/Phönix	Wool alcohol ointment DAB	93556410	1
Beiersdorf AG/Sanacorp	Wool alcohol ointment DAB	50444710	1
Beiersdorf AG	Wool alcohol ointment DAB	10112014A	1
Beiersdorf AG	Wool alcohol ointment DAB	11052015B	1
Beiersdorf AG	Wool alcohol ointment DAB	11062014A	1
Beiersdorf AG	Wool alcohol ointment DAB	12523810	1
Beiersdorf AG	Wool alcohol ointment DAB	13042015D	1
Beiersdorf AG	Wool alcohol ointment DAB	14549310	1
Beiersdorf AG	Wool alcohol ointment DAB	15362002	1
Beiersdorf AG	Eye paraffin	15441502	1
Beiersdorf AG	Wool alcohol ointment DAB	1710910	1
Beiersdorf AG	Wool alcohol ointment DAB	21111310	1
Beiersdorf AG	Wool alcohol ointment DAB	22532810	1
Beiersdorf AG	Wool alcohol ointment DAB	23223410	1
Beiersdorf AG	Wool alcohol ointment DAB	24254010	1
Beiersdorf AG	Wool alcohol ointment DAB	2711410	1
Beiersdorf AG	Wool alcohol ointment DAB	30721310	1
Beiersdorf AG	Wool alcohol ointment DAB	30731210	3
Beiersdorf AG	Wool alcohol ointment DAB	31231810	2
Beiersdorf AG	Wool alcohol ointment DAB	31251910	1
Beiersdorf AG	Wool alcohol ointment DAB	33323210	1
Beiersdorf AG	Wool alcohol ointment DAB	33343310	1
Beiersdorf AG	Wool alcohol ointment DAB	33753710	1
Beiersdorf AG	Wool alcohol ointment DAB	34344210	1
Beiersdorf Ag	Wool alcohol ointment DAB	34554710	1
Beiersdorf AG	Wool alcohol ointment DAB	4012410	1
Beiersdorf AG	Wool alcohol ointment DAB	40726610	1
Beiersdorf AG	Wool alcohol ointment DAB	41930610	2
Beiersdorf AG	Wool alcohol ointment DAB	50444710	3
Beiersdorf AG	Wool alcohol ointment DAB	50845210	1
Beiersdorf AG	Wool alcohol ointment DAB	51025610	1
Beiersdorf AG	Wool alcohol ointment DAB	51946010	1
Beiersdorf AG	Wool alcohol ointment DAB	53457110	1
Beiersdorf AG	Wool alcohol ointment DAB	6022014A	1
Beiersdorf AG	Wool alcohol ointment DAB	60419110	1
Beiersdorf AG	Wool alcohol ointment DAB	60919510	2
Beiersdorf AG	Wool alcohol ointment DAB	61149910	2
Beiersdorf AG	Wool alcohol ointment DAB	61841610	1
Beiersdorf AG	Unguentum Cordes®	62932210	2
Beiersdorf AG	Wool alcohol ointment DAB	63052310	1
Beiersdorf AG	Wool alcohol ointment DAB	64312910	1
Beiersdorf AG	Wool alcohol ointment DAB	64713510	1
Beiersdorf AG	Wool alcohol ointment DAB	71274810	1
Beiersdorf AG	Wool alcohol ointment DAB	74737410	1
Beiersdorf AG	Wool alcohol ointment DAB	81819410	2
Beiersdorf AG	Wool alcohol ointment DAB	82721410	2
Beiersdorf AG	Wool alcohol ointment DAB	829110	1
Beiersdorf AG	Wool alcohol ointment DAB	83321910	1
Beiersdorf AG	Wool alcohol ointment DAB	84122310	2
Beiersdorf AG	Wool alcohol ointment DAB	93917110	1
Beiersdorf AG	Wool alcohol ointment DAB	94037210	1
Beiersdorf am 18.6.19	Wool alcohol ointment DAB	80658510P-190624-9	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf direkt	Wool alcohol ointment DAB	52056110	1
Beiersdorf Gehe	Wool alcohol ointment DAB	12523810	1
Beiersdorf Gehe	Wool alcohol ointment DAB	3841	1
Beiersdorf GmbH / Anzag	Wool alcohol ointment DAB	1821010	1
Beiersdorf Manifacturin...	Wool alcohol ointment DAB	11333210	1
Beiersdorf Manufacturin...	Wool alcohol ointment DAB	1841110	1
Beiersdorf Manufacturin...	Wool alcohol ointment DAB	11323310	1
Beiersdorf Manufacturin...	Wool alcohol ointment DAB	11333210	1
Beiersdorf Manufacturin...	Wool alcohol ointment DAB	1841110	1
Beiersdorf Manufacturin...	Wool alcohol ointment DAB	20745710	1
Beiersdorf Manufacturin...	Wool alcohol ointment DAB	2711410	1
Beiersdorf Manufacturin...	Wool alcohol ointment DAB	402410	1
Beiersdorf Manufacturin...	Wool alcohol ointment DAB	94037210	1
Beiersdorf Manufacturing	Wool alcohol ointment DAB	11213110	1
Beiersdorf Manufacturing	Wool alcohol ointment DAB	30731210	1
Beiersdorf NO	Wool alcohol ointment DAB	74747510	1
Beiersdorf NO	Wool alcohol ointment DAB	83241810	1
Beiersdorf Noweda	Wool alcohol ointment DAB	83742110	1
Beiersdorf Noweda	Wool alcohol ointment DAB	84132310	1
Beiersdorf ph	Wool alcohol ointment DAB	94957610	1
Beiersdorf SA/Noweda	Wool alcohol ointment DAB	81819410	2
Beiersdorf SA	Wool alcohol ointment DAB	41950710	1
Beiersdorf SA	Wool alcohol ointment DAB	44824310	1
Beiersdorf Sanacorp	Wool alcohol ointment DAB	94947710	1
Beiersdorf über Phoenix	Wool alcohol ointment DAB	53437010	1
Beiersdorf über Phönix	Wool alcohol ointment DAB	1821010	1
Beiersdorf über Sanacorp	Wool alcohol ointment DAB	4012410	1
Beiersdorf über Sanacorp	Wool alcohol ointment DAB	50444710	1
Beiersdorf, Hamburg/ Je...	Wool alcohol ointment DAB	1710910	1
Beiersdorf, Hamburg/ Ph...	Wool alcohol ointment DAB	11323310	1
Beiersdorf, Hamburg/ Ph...	Wool alcohol ointment DAB	2831510	1
Beiersdorf, Phönix	Wool alcohol ointment DAB	30721310	1
Beiersdorf, Phönix	Wool alcohol ointment DAB	31121710	1
Beiersdorf, Phönix	Wool alcohol ointment DAB	82721410	1
Beiersdorf/ AEP	Wool alcohol ointment DAB	74757510	1
Beiersdorf/ AHC	Wool alcohol ointment DAB	71274810	1
Beiersdorf/ Alliance	Wool alcohol ointment DAB	93436310	1
Beiersdorf/ Gehe	Wool alcohol ointment DAB	40916810	1
Beiersdorf/ Gehe	Wool alcohol ointment DAB	41930610	1
Beiersdorf/ Gehe	Wool alcohol ointment DAB	41950710	1
Beiersdorf/ Gehe	Wool alcohol ointment DAB	50414810	1
Beiersdorf/ Gehe	Wool alcohol ointment DAB	51125710	1
Beiersdorf/ Gehe	Wool alcohol ointment DAB	64312910	1
Beiersdorf/ Gehe	Wool alcohol ointment DAB	74017010	1
Beiersdorf/ Gehe	Wool alcohol ointment DAB	82721410	1
Beiersdorf/ Jenne	Wool alcohol ointment DAB	1710910	1
Beiersdorf/ Jenne	Wool alcohol ointment DAB	1841110	1
Beiersdorf/ Jenne	Wool alcohol ointment DAB	21526010	1
Beiersdorf/ Jenne	Wool alcohol ointment DAB	2831510	1
Beiersdorf/ Jenne	Wool alcohol ointment DAB	82721410	1
Beiersdorf/ Krieger	Wool alcohol ointment DAB	93556410	1
Beiersdorf/ Nowea	Wool alcohol ointment DAB	45054410	1
Beiersdorf/ Noweda	Wool alcohol ointment DAB	31322010	1
Beiersdorf/ Noweda	Wool alcohol ointment DAB	33323210	2
Beiersdorf/ Noweda	Wool alcohol ointment DAB	43142910	1
Beiersdorf/ Noweda	Wool alcohol ointment DAB	50324610	1
Beiersdorf/ Noweda	Wool alcohol ointment DAB	64833610	1
beiersdorf/ Noweda	Wool alcohol ointment DAB	71214810	1
Beiersdorf/ Noweda	Wool alcohol ointment DAB	829110	1
Beiersdorf/ Noweda	Wool alcohol ointment DAB	83241810	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf/ Noweda	Wool alcohol ointment DAB	84132310	1
Beiersdorf/ Noweda	Wool alcohol ointment DAB	93556410	1
Beiersdorf/ Phoenix	Wool alcohol ointment DAB	54127710	1
Beiersdorf/ Phoenix	Wool alcohol ointment DAB	814Q1270	1
Beiersdorf/ Phoenix	Wool alcohol ointment DAB	81819410	1
Beiersdorf/ Phoenix	Wool alcohol ointment DAB	83241810	1
Beiersdorf/ Phoenix	Wool alcohol ointment DAB	93436310	1
Beiersdorf/ Phönix	Wool alcohol ointment DAB	1841110	1
Beiersdorf/ Phönix	Wool alcohol ointment DAB	2851610	1
Beiersdorf/ Phönix	Wool alcohol ointment DAB	74747510	1
Beiersdorf/ Phönix	Wool alcohol ointment DAB	93456310	1
Beiersdorf/ Sanacorp	Wool alcohol ointment DAB	34344210	1
Beiersdorf/ Sanacorp	Wool alcohol ointment DAB	44824310	1
Beiersdorf/ Sanacorp	Wool alcohol ointment DAB	53457110	1
Beiersdorf/ Sanacorp	Wool alcohol ointment DAB	82541010	1
Beiersdorf/ Sanacorp	Wool alcohol ointment DAB	82721410	1
Beiersdorf/2	Wool alcohol ointment DAB	94957610	1
Beiersdorf/AEP	Wool alcohol ointment DAB	70434110	1
Beiersdorf/AHC	Wool alcohol ointment DAB	62932210	1
Beiersdorf/AHD	Wool alcohol ointment DAB	1710910	1
Beiersdorf/AHD	Wool alcohol ointment DAB	1841110	1
Beiersdorf/AHD	Wool alcohol ointment DAB	22412510	1
Beiersdorf/AHD	Wool alcohol ointment DAB	2711410	1
beiersdorf/AHD	Wool alcohol ointment DAB	348370	1
Beiersdorf/AHD	Wool alcohol ointment DAB	61149910	1
Beiersdorf/AHD	Wool alcohol ointment DAB	84132310	1
Beiersdorf/AHD	Wool alcohol ointment DAB	84232410	1
Beiersdorf/AHD	Wool alcohol ointment DAB	93456310	1
Beiersdorf/Allia	Wool alcohol ointment DAB	11213110	1
Beiersdorf/Alliance Hea...	Wool alcohol ointment DAB	74737410	1
Beiersdorf/Alliance	Wool alcohol ointment DAB	2711410	1
Beiersdorf/Alliance	Wool alcohol ointment DAB	829110	1
Beiersdorf/Alliance	Wool alcohol ointment DAB	92945910	1
Beiersdorf/Anzag	Wool alcohol ointment DAB	2831510	1
Beiersdorf/Anzag	Wool alcohol ointment DAB	63052310	1
Beiersdorf/Anzag	Wool alcohol ointment DAB	71114510	1
Beiersdorf/Anzag	Wool alcohol ointment DAB	83742110	1
Beiersdorf/Anzag	Wool alcohol ointment DAB	92125210	1
Beiersdorf/Anzag	Wool alcohol ointment DAB	93436310	1
Beiersdorf/Beiersdorf	Wool alcohol ointment DAB	1610810	1
Beiersdorf/Beiersdorf	Wool alcohol ointment DAB	50815310	1
Beiersdorf/Beiersdorf	Wool alcohol ointment DAB	50955510	1
Beiersdorf/Beiersdorf	Wool alcohol ointment DAB	819210	1
Beiersdorf/E	Wool alcohol ointment DAB	60419110	1
Beiersdorf/Ebert	Wool alcohol ointment DAB	72435610	1
Beiersdorf/Ebert	Wool alcohol ointment DAB	83321910	1
Beiersdorf/EJ	Wool alcohol ointment DAB	74737410	1
Beiersdorf/Fiebig	Wool alcohol ointment DAB	64833610	1
Beiersdorf/Fiebig	Wool alcohol ointment DAB	74017010	1
Beiersdorf/Fiebig	Wool alcohol ointment DAB	83241810	1
Beiersdorf/Fiebig	Wool alcohol ointment DAB	84122310	1
Beiersdorf/Fiebig	Wool alcohol ointment DAB	84132310	1
Beiersdorf/Gehe 04.02.2...	Wool alcohol ointment DAB	13144210	1
Beiersdorf/Gehe 11.04.17	Wool alcohol ointment DAB	62932210	1
Beiersdorf/Gehe/26,99	Wool alcohol ointment DAB	84132310	1
Beiersdorf/Gehe	Paraffin, white	1401017-01	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	20745710	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	22412510	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	23223410	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	24123810	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf/Gehe	Wool alcohol ointment DAB	2831510	2
Beiersdorf/Gehe	Wool alcohol ointment DAB	2851610	1
beiersdorf/Gehe	Wool alcohol ointment DAB	30721310	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	30731210	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	30831410	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	32352710	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	33753710	2
Beiersdorf/Gehe	Wool alcohol ointment DAB	34554710	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	40726610	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	41930610	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	41940610	2
Beiersdorf/Gehe	Wool alcohol ointment DAB	43142910	2
Beiersdorf/Gehe	Wool alcohol ointment DAB	50955510	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	53447010	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	60539210	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	62922210	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	64342810	1
beiersdorf/gehe	Wool alcohol ointment DAB	71114510	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	71114510	1
Beiersdorf/GEHE	Wool alcohol ointment DAB	72915810	1
Beiersdorf/gehe	Wool alcohol ointment DAB	74017010	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	74757510	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	747575410	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	82541010	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	82721410	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	829110	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	83031710	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	83241810	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	83352010	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	84222410	1
Beiersdorf/Gehe	Wool alcohol ointment DAB	94957610	2
Beiersdorf/Gehe_11.01.2...	Wool alcohol ointment DAB	13554310	1
Beiersdorf/Geibo	Wool alcohol ointment DAB	50925410	1
Beiersdorf/Geibo	Wool alcohol ointment DAB	71274810	1
Beiersdorf/Geibo	Wool alcohol ointment DAB	83321910	1
Beiersdorf/Gumo	Wool alcohol ointment DAB	33323210	1
Beiersdorf/Holdermann	Wool alcohol ointment DAB	50845210	1
Beiersdorf/Jenne/16.03.20	Wool alcohol ointment DAB	94957610	1
Beiersdorf/Jenne	Wool alcohol ointment DAB	84222410	1
Beiersdorf/Kehr	Wool alcohol ointment DAB	11333210	1
Beiersdorf/Kehr	Wool alcohol ointment DAB	1821010	1
Beiersdorf/Kehr	Hydrophobic base gel DAC	20004213	1
Beiersdorf/Kehr	Wool alcohol ointment DAB	2831510	1
Beiersdorf/Kehr	Wool alcohol ointment DAB	4104701008/16	1
Beiersdorf/Kehr	Wool alcohol ointment DAB	64312910	1
Beiersdorf/Kehr	Wool alcohol ointment DAB	82521010	1
Beiersdorf/Kehr	Wool alcohol ointment DAB	8521010	1
Beiersdorf/Krieger/06.1...	Wool alcohol ointment DAB	33323210	1
Beiersdorf/Krieger	Wool alcohol ointment DAB	1710910	1
Beiersdorf/Krieger	Wool alcohol ointment DAB	81819410	1
Beiersdorf/N/22.03.2013...	Wool alcohol ointment DAB	24635410	1
Beiersdorf/N	Wool alcohol ointment DAB	50845210	1
Beiersdorf/N	Wool alcohol ointment DAB	50925410	1
Beiersdorf/N	Wool alcohol ointment DAB	51015610	1
Beiersdorf/N	Wool alcohol ointment DAB	53437010	1
Beiersdorf/N	Wool alcohol ointment DAB	53457110	1
Beiersdorf/N	Wool alcohol ointment DAB	54147810	1
Beiersdorf/N	Wool alcohol ointment DAB	60839310	1
Beiersdorf/Nnoweda	Wool alcohol ointment DAB	71274810	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	11213110	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf/Noweda	Wool alcohol ointment DAB	12523810	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	14154810	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	1841110	3
Beiersdorf/Noweda	Wool alcohol ointment DAB	2081510	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	2711410	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	2851610	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	31322010	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	34424610	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	348370	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	41910710	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	45054410	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	50324610	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	50815310	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	50845210	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	53437010	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	54127710	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	54147810	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	54157810	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	60919510	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	62031710	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	62041710	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	62922210	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	64312910	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	64332810	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	72915810	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	74737410	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	74747510	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	74757510	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	7477510	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	81328810	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	81819410	3
Beiersdorf/Noweda	Wool alcohol ointment DAB	82721410	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	8272141083352010	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	829110	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	83031710	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	83241810	3
Beiersdorf/Noweda	Wool alcohol ointment DAB	83742110	2
Beiersdorf/Noweda	Wool alcohol ointment DAB	84122310	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	84132310	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	93556410	3
Beiersdorf/NOWEDA	Wool alcohol ointment DAB	93917110	1
Beiersdorf/Noweda	Wool alcohol ointment DAB	94037210	2
Beiersdorf/Otto	Wool alcohol ointment DAB	23033310	1
Beiersdorf/Otto	Wool alcohol ointment DAB	31251910	1
Beiersdorf/Otto	Wool alcohol ointment DAB	33753710	1
Beiersdorf/Otto	Wool alcohol ointment DAB	41047010	1
Beiersdorf/P	Wool alcohol ointment DAB	83241810	1
Beiersdorf/Pheo	Wool alcohol ointment DAB	84222410	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	11323310	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	1710910	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	2851610	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	28521610	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	30711310	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	33723610	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	41910710	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	41930610	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	50845210	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	50935410	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	52656810	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	53447010	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf/Phoenix	Wool alcohol ointment DAB	60539210	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	61149910	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	62932210	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	63052310	2
Beiersdorf/Phoenix	Wool alcohol ointment DAB	64713510	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	70314010	3
Beiersdorf/Phoenix	Wool alcohol ointment DAB	71114510	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	74017010	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	74057010	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	74747510	2
Beiersdorf/Phoenix	Wool alcohol ointment DAB	81819410	3
Beiersdorf/Phoenix	Wool alcohol ointment DAB	81859410	5
beiersdorf/phoenix	Wool alcohol ointment DAB	82541010	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	829110	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	83321910	2
Beiersdorf/Phoenix	Wool alcohol ointment DAB	84132310	1
Beiersdorf/Phoenix	Wool alcohol ointment DAB	B4222410	1
Beiersdorf/Phoneix	Wool alcohol ointment DAB	83742110	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	11213110	2
beiersdorf/phönix	Wool alcohol ointment DAB	11333210	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	12523810	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	13554310	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	14154810	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	1710910	2
beiersdorf/Phönix	Wool alcohol ointment DAB	1821010	2
Beiersdorf/Phönix	Wool alcohol ointment DAB	1841110	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	20002127	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	2711410	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	2831510	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	2851610	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	30841410	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	33343310	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	33723610	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	34554710	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	50935410	2
Beiersdorf/Phönix	Wool alcohol ointment DAB	51015610	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	53437010	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	60429110	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	61079710	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	61149910	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	61841610	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	62031710	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	64312910	2
Beiersdorf/Phönix	Wool alcohol ointment DAB	64342810	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	71214810	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	72915810	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	82721410	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	829110	2
Beiersdorf/Phönix	Wool alcohol ointment DAB	83241810	2
Beiersdorf/Phönix	Wool alcohol ointment DAB	83321910	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	83742110	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	84222410	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	93246210	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	93436310	1
Beiersdorf/Phönix	Wool alcohol ointment DAB	93556410	2
Beiersdorf/Phönix	Wool alcohol ointment DAB	94037210	1
Beiersdorf/Sana	Wool alcohol ointment DAB	54137710	1
Beiersdorf/Sanac.	Wool alcohol ointment DAB	84132310	1
Beiersdorf/Sanac.	Wool alcohol ointment DAB	93456310	1
Beiersdorf/Sanacorp 09....	Wool alcohol ointment DAB	93226110	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	11213110	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	11323310	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	171090	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	28315100	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	31231810	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	34254110	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	50815310	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	53437010	2
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	54157810	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	60539210	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	62041710	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	62932210	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	64342810	3
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	70314010	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	71114510	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	73035910	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	74017010	2
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	74737410	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	74747510	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	74757510	2
Beiersdorf/sanacorp	Wool alcohol ointment DAB	81819410	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	81819410	2
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	82541010	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	82721410	4
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	829110	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	83031710	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	83241810	2
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	83742110	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	84132310	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	84222410	2
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	92125210	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	92515310	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	93456310	2
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	94037210	1
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	94947710	4
Beiersdorf/Sanacorp	Wool alcohol ointment DAB	94957610	1
Beiersdorf/Spangro 25.0...	Wool alcohol ointment DAB	2841510	1
Beiersdorf/Spangro	Wool alcohol ointment DAB	1123110	1
Beiersdorf/Spangro	Wool alcohol ointment DAB	64833610	1
Beiersdorf/V.d.L.	Wool alcohol ointment DAB	33723610	1
Beiersdorf	Wool alcohol ointment DAB	11213110	2
Beiersdorf	Wool alcohol ointment DAB	11235310	1
Beiersdorf	Wool alcohol ointment DAB	11856010	1
Beiersdorf	Wool alcohol ointment DAB	12523810	1
Beiersdorf	Wool alcohol ointment DAB	1253810	1
Beiersdorf	Wool alcohol ointment DAB	13554310	3
Beiersdorf	Wool alcohol ointment DAB	14021301	1
Beiersdorf	Wool alcohol ointment DAB	14154810	1
Beiersdorf	Wool alcohol ointment DAB	14349010	1
Beiersdorf	Wool alcohol ointment DAB	14939610	1
Beiersdorf	Wool alcohol ointment DAB	1610810	2
Beiersdorf	Wool alcohol ointment DAB	16267201	1
Beiersdorf	Wool alcohol ointment DAB	1710910	5
Beiersdorf	Wool alcohol ointment DAB	18121010	1
Beiersdorf	Wool alcohol ointment DAB	1821010	4
Beiersdorf	Wool alcohol ointment DAB	1841110	6
Beiersdorf	Wool alcohol ointment DAB	20271211-3	1
Beiersdorf	Wool alcohol ointment DAB	21241410	1
Beiersdorf	Wool alcohol ointment DAB	21431810	1
Beiersdorf	Wool alcohol ointment DAB	21526010	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf	Wool alcohol ointment DAB	23223410	4
Beiersdorf	Wool alcohol ointment DAB	23753710	1
Beiersdorf	Wool alcohol ointment DAB	24113810	1
Beiersdorf	Wool alcohol ointment DAB	24233910	2
Beiersdorf	Wool alcohol ointment DAB	24635410	3
Beiersdorf	Wool alcohol ointment DAB	24655410	1
Beiersdorf	Wool alcohol ointment DAB	2531310	1
Beiersdorf	Wool alcohol ointment DAB	25831510	1
Beiersdorf	Wool alcohol ointment DAB	2711410	1
Beiersdorf	Wool alcohol ointment DAB	2721410	1
Beiersdorf	Wool alcohol ointment DAB	2831510	5
Beiersdorf	Wool alcohol ointment DAB	2851610	2
Beiersdorf	Wool alcohol ointment DAB	30821610	1
Beiersdorf	Wool alcohol ointment DAB	30831410	1
Beiersdorf	Paraffin, white	30841410	3
Beiersdorf	Wool alcohol ointment DAB	30851510	1
Beiersdorf	Wool alcohol ointment DAB	31121710	1
Beiersdorf	Wool alcohol ointment DAB	31231810	1
Beiersdorf	Wool alcohol ointment DAB	31241810	2
Beiersdorf	Wool alcohol ointment DAB	31322010	1
Beiersdorf	Wool alcohol ointment DAB	3311110	1
Beiersdorf	Wool alcohol ointment DAB	33323210	1
Beiersdorf	Wool alcohol ointment DAB	33343310	4
Beiersdorf	Wool alcohol ointment DAB	33723610	2
Beiersdorf	Wool alcohol ointment DAB	34224110	1
Beiersdorf	Wool alcohol ointment DAB	34414610	2
beiersdorf	Wool alcohol ointment DAB	34424610	1
Beiersdorf	Wool alcohol ointment DAB	34554710	5
Beiersdorf	Wool alcohol ointment DAB	3712310	1
Beiersdorf	Wool alcohol ointment DAB	4012410	1
beiersdorf	Wool alcohol ointment DAB	40726610	1
Beiersdorf	Wool alcohol ointment DAB	40726610	2
Beiersdorf	Wool alcohol ointment DAB	40956810	3
Beiersdorf	Wool alcohol ointment DAB	41026910	2
Beiersdorf	Wool alcohol ointment DAB	41047010	3
Beiersdorf	Wool alcohol ointment DAB	41839810	2
Beiersdorf	Wool alcohol ointment DAB	41910710	1
Beiersdorf	Wool alcohol ointment DAB	41930610	1
Beiersdorf	Wool alcohol ointment DAB	41940610	2
Beiersdorf	Wool alcohol ointment DAB	42531910	1
Beiersdorf	Wool alcohol ointment DAB	42541910	2
Beiersdorf	Wool alcohol ointment DAB	45054410	2
Beiersdorf	Wool alcohol ointment DAB	4552510	1
Beiersdorf	Wool alcohol ointment DAB	50324610	2
Beiersdorf	Wool alcohol ointment DAB	50414810	1
Beiersdorf	Wool alcohol ointment DAB	50444710	4
Beiersdorf	Wool alcohol ointment DAB	50454710	2
beiersdorf	Wool alcohol ointment DAB	50815310	1
Beiersdorf	Wool alcohol ointment DAB	50815310	1
Beiersdorf	Wool alcohol ointment DAB	50845210	1
Beiersdorf	Wool alcohol ointment DAB	50855310	1
Beiersdorf	Wool alcohol ointment DAB	50925410	9
Beiersdorf	Wool alcohol ointment DAB	50935410	3
Beiersdorf	Wool alcohol ointment DAB	50955510	1
Beiersdorf	Wool alcohol ointment DAB	51015610	2
Beiersdorf	Wool alcohol ointment DAB	51115710	1
Beiersdorf	Wool alcohol ointment DAB	51125710	3
Beiersdorf	Wool alcohol ointment DAB	51946010	1
Beiersdorf	Wool alcohol ointment DAB	53437010	2
Beiersdorf	Wool alcohol ointment DAB	54127710	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf	Wool alcohol ointment DAB	54147810	4
Beiersdorf	Wool alcohol ointment DAB	54157810	2
Beiersdorf	Wool alcohol ointment DAB	6039210	1
Beiersdorf	Wool alcohol ointment DAB	60419110	3
Beiersdorf	Wool alcohol ointment DAB	60539210	3
Beiersdorf	Wool alcohol ointment DAB	60919510	2
Beiersdorf	Wool alcohol ointment DAB	61079710	1
Beiersdorf	Wool alcohol ointment DAB	61149910	3
Beiersdorf	Wool alcohol ointment DAB	62031710	2
Beiersdorf	Wool alcohol ointment DAB	62041710	2
Beiersdorf	Wool alcohol ointment DAB	62922210	3
Beiersdorf	Wool alcohol ointment DAB	62932210	3
Beiersdorf	Wool alcohol ointment DAB	63052310	4
Beiersdorf	Wool alcohol ointment DAB	64332810	5
Beiersdorf	Wool alcohol ointment DAB	643423810	1
Beiersdorf	Wool alcohol ointment DAB	64342810	7
Beiersdorf	Wool alcohol ointment DAB	64713510	5
beiersdorf	Wool alcohol ointment DAB	64833610	1
Beiersdorf	Wool alcohol ointment DAB	64833610	3
Beiersdorf	Wool alcohol ointment DAB	648336105291	1
Beiersdorf	Wool alcohol ointment DAB	6922210	1
Beiersdorf	Unguentum Cordes®	70314010	3
Beiersdorf	Wool alcohol ointment DAB	71114510	6
Beiersdorf	Wool alcohol ointment DAB	71124510	2
Beiersdorf	Wool alcohol ointment DAB	71214810	1
beiersdorf	Wool alcohol ointment DAB	71274810	1
Beiersdorf	Wool alcohol ointment DAB	71274810	7
Beiersdorf	Wool alcohol ointment DAB	72915810	2
Beiersdorf	Wool alcohol ointment DAB	730035910	1
Beiersdorf	Wool alcohol ointment DAB	73035910	1
Beiersdorf	Wool alcohol ointment DAB	740170010	1
beiersdorf	Wool alcohol ointment DAB	74017010	2
Beiersdorf	Wool alcohol ointment DAB	74017010	5
BEIERSDORF	Wool alcohol ointment DAB	74017010	2
Beiersdorf	Wool alcohol ointment DAB	74727410	1
Beiersdorf	Wool alcohol ointment DAB	74737410	1
beiersdorf	Wool alcohol ointment DAB	74747410	1
Beiersdorf	Wool alcohol ointment DAB	74747510	5
BEIERSDORF	Wool alcohol ointment DAB	74747510	1
Beiersdorf	Wool alcohol ointment DAB	74757510	2
BEIERSDORF	Wool alcohol ointment DAB	74757510	1
Beiersdorf	Wool alcohol ointment DAB	747577510	1
Beiersdorf	Wool alcohol ointment DAB	81328810	2
Beiersdorf	Wool alcohol ointment DAB	81819410	6
Beiersdorf	Wool alcohol ointment DAB	81939510	2
Beiersdorf	Wool alcohol ointment DAB	82350810	1
Beiersdorf	Wool alcohol ointment DAB	82521010	1
Beiersdorf	Wool alcohol ointment DAB	82541010	3
Beiersdorf	Wool alcohol ointment DAB	82721410	5
Beiersdorf	Wool alcohol ointment DAB	829110	8
beiersdorf	Wool alcohol ointment DAB	83031710	1
Beiersdorf	Wool alcohol ointment DAB	83031710	1
Beiersdorf	Wool alcohol ointment DAB	83241810	3
Beiersdorf	Wool alcohol ointment DAB	83352010	3
beiersdorf	Wool alcohol ointment DAB	83742110	1
Beiersdorf	Wool alcohol ointment DAB	83742110	7
Beiersdorf	Wool alcohol ointment DAB	84122310	1
beiersdorf	Wool alcohol ointment DAB	84132310	1
Beiersdorf	Wool alcohol ointment DAB	84132310	2
beiersdorf	Wool alcohol ointment DAB	84222410	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf	Wool alcohol ointment DAB	84222410	6
Beiersdorf	Wool alcohol ointment DAB	84232410	3
Beiersdorf	Wool alcohol ointment DAB	8423410	1
Beiersdorf	Wool alcohol ointment DAB	91955110	1
Beiersdorf	Wool alcohol ointment DAB	9212510	1
Beiersdorf	Wool alcohol ointment DAB	92125210	1
Beiersdorf	Wool alcohol ointment DAB	93246210	2
Beiersdorf	Wool alcohol ointment DAB	93330610	1
Beiersdorf	Wool alcohol ointment DAB	93436310	2
Beiersdorf	Wool alcohol ointment DAB	93456310	5
Beiersdorf	Wool alcohol ointment DAB	93556410	4
Beiersdorf	Wool alcohol ointment DAB	93917110	3
Beiersdorf	Wool alcohol ointment DAB	93927110	1
Beiersdorf	Wool alcohol ointment DAB	94037210	1
Beiersdorf	Wool alcohol ointment DAB	94947710	4
Beiersdorf	Wool alcohol ointment DAB	94957610	3
BeiersdorfAG/Kehr	Wool alcohol ointment DAB	84232410	1
Beiersdorfer	Wool alcohol ointment DAB	62932210	2
Beiersdorf-Noweda	Wool alcohol ointment DAB	84222410	1
Beiersdrof/Phönix	Wool alcohol ointment DAB	4012410	1
Beiersorf	Wool alcohol ointment DAB	93456310	1
Beierssdorf	Wool alcohol ointment DAB	81819410	1
Beierstorf/Noweda	Wool alcohol ointment DAB	10213010	1
Beierstorf/Noweda	Wool alcohol ointment DAB	14154810	1
Beierstorf/Noweda	Wool alcohol ointment DAB	2711410	1
Beierstorf/Noweda	Wool alcohol ointment DAB	4012410	2
Beirsdorf Manufacturing	Wool alcohol ointment DAB	54147810	1
Beirsdorf	Wool alcohol ointment DAB	74747510	1
Beisersdorf / Gehe	Wool alcohol ointment DAB	1710910	1
Beisersdorf	Wool alcohol ointment DAB	74747510	1
Berkel AHK	Paraffin, white	13338710	1
Berkel AHK	Unguentum Cordes®	13A158	1
Berkel AHK	Wool alcohol ointment DAB	14067201	1
Berkel AHK	Paraffin, white	14087403	1
Berkel AHK	Unguentum Cordes®	14A056	1
Biersdorf	Wool alcohol ointment DAB	64342810	1
BiodermaEthics/Noweda	Unguentum Cordes®	109948	1
Bionorica Ethics	Paraffin, white	311259	1
Bobastus	Paraffin, white	302037	1
Bomastus/Anzag	Paraffin, white	18003484	1
Bomastus/GEHE/06.11.19	Wool alcohol ointment SR/DAC	19004361	1
Bomastus/Phönix	Paraffin, white	307661	1
Bomastus/Sanacorp	Wool alcohol ointment DAB	200002127	1
Bomastus	Wool alcohol ointment DAB	293093	2
Bomastus-Werke AG	Paraffin, white	18002117	1
Bomb./Gehe	Paraffin, white	17000584	1
Bomb./Gehe	Wool alcohol ointment SR/DAC	17001146	1
Bomb./Gehe	Wool alcohol ointment DAB	18001095	1
Bomb./Gehe	Wool alcohol ointment SR/DAC	18003447	1
Bomb./Gehe	Paraffin, white	18003484	1
Bomb./Gehe	Wool alcohol ointment SR/DAC	19001991	1
Bomb./Gehe	Wool alcohol ointment SR wit…	305548	1
Bomb./Gehe	Wool alcohol ointment SR wit…	308141	2
Bomb./Gehe	Wool alcohol ointment SR wit…	308143	1
Bomb./Gehe	Wool alcohol ointment SR wit…	310488	1
Bomb./Gehe	Wool alcohol ointment SR/DAC	310489	1
Bomb./Gehe	Wool alcohol ointment DAB	71114510	1
Bomb/Alliance	Hydrophobic base gel DAC	19003315	1
Bomb/Gehe	Paraffin, white	304124	1
Bomb/Phönix	Hydrophilic ointment DAB	18004573	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
bomb/phönix	Hydrophobic base gel DAC	304036	1
bomb/phönix	Hydrophobic base gel DAC	306483	2
bomb/phönix	Hydrophilic ointment DAB	307092	1
Bomba/ Kehr	Wool alcohol ointment SR wit…	288689	1
Bombast./phönix	Paraffin, white	19004887	1
Bombast/Gehe	Hydrophilic ointment DAB	1900429	1
BOMBAST/Noweda	Wool alcohol ointment DAB	20002127	1
Bombast/Spangro	Hydrophilic ointment DAB	311063	1
Bombast/Spangro	Hydrophilic ointment DAB	311065	1
BOMBASTU Gehe 20.04.18	Paraffin, white	17000584	1
Bombastu/Phönix	Wool alcohol ointment DAB	21000376	2
Bombastus	Paraffin, white		6
Bombastus	Paraffin, white	1001312549	1
Bombastus	Hydrophobic base gel DAC	10071402	1
Bombastus	Wool alcohol ointment DAB	104374	1
Bombastus	Wool alcohol ointment SR wit…	106236	1
Bombastus	Paraffin, yellow	106429	1
Bombastus	Wool alcohol ointment SR/DAC	108187	1
Bombastus	Emulsifying hydrophobic base…	11041301	1
Bombastus	Emulsifying hydrophobic base…	11071308	1
Bombastus	Wool alcohol ointment DAB	1109210014	1
Bombastus	Paraffin, white	111967	1
Bombastus	Wool alcohol ointment DAB	113842	1
Bombastus	Wool alcohol ointment DAB	116684	1
Bombastus	Paraffin, yellow	1197768	1
Bombastus	Paraffin, white	12/2019	1
Bombastus	Hydrophobic base gel DAC	12051806	1
Bombastus	Wool alcohol ointment DAB	1211017-01	1
Bombastus	Wool alcohol ointment DAB	1211018-01	1
Bombastus	Paraffin, white	1223Test	1
Bombastus	Unguentum Cordes®	12A102	1
Bombastus	Unguentum Cordes®	12A123	1
Bombastus	Wool alcohol ointment DAB	13255101	1
Bombastus	Paraffin, yellow	136(20002910)	1
Bombastus	Unguentum Cordes®	13A042	1
Bombastus	Unguentum Cordes®	13A181	1
Bombastus	Hydrophilic ointment DAB	14025001	2
Bombastus	Paraffin, white	1406212549	1
Bombastus	Paraffin, white	14087402	1
Bombastus	Unguentum Cordes®	14A060	1
Bombastus	Hydrophobic base gel DAC	15081828	1
Bombastus	Hydrophilic ointment DAB	15221801	2
Bombastus	Paraffin, yellow	15330401	1
Bombastus	Eye paraffin	15441501	1
Bombastus	Paraffin, liquid	158(20005329)	1
Bombastus	Paraffin, liquid	159(20005329)	1
Bombastus	Unguentum Cordes®	15a020	1
Bombastus	Unguentum Cordes®	15A149	1
Bombastus	Wool alcohol ointment DAB	16007201	2
Bombastus	Hydrophobic base gel DAC	16054302	1
Bombastus	Hydrophobic base gel DAC	160607HB	1
Bombastus	Hydrophilic ointment DAB	16166801	1
Bombastus	Hydrophilic ointment DAB	16167001	3
Bombastus	Paraffin, yellow	16181902	1
Bombastus	Wool alcohol ointment DAB	16198502	1
Bombastus	Eye paraffin	16271810	1
Bombastus	Unguentum Cordes®	16A083	1
Bombastus	Unguentum Cordes®	16A099	1
Bombastus	Unguentum Cordes®	16A176170613-6	1
Bombastus	Unguentum Cordes®	16A183	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Unguentum Cordes®	16A184	1
Bombastus	Hydrophilic ointment DAB	17/11-T04-48192	1
Bombastus	Paraffin, white	17000584	20
Bombastus	Hydrophobic base gel DAC	17001132	2
Bombastus	Hydrophobic base gel DAC	17001133	8
Bombastus	Wool alcohol ointment SR/DAC	17001146	5
Bombastus	Wool alcohol ointment SR wit…	17001147	5
Bombastus	Wool alcohol ointment SR/DAC	17001148	4
Bombastus	Wool alcohol ointment SR/DAC	17001149	7
Bombastus	Wool alcohol ointment DAB	17001874	2
Bombastus	Wool alcohol ointment DAB	17001875	15
Bombastus	Wool alcohol ointment DAB	17001876	8
Bombastus	Wool alcohol ointment DAB	17001877	1
Bombastus	Paraffin, white	17038204	1
Bombastus	Eye paraffin	17052001	1
Bombastus	Hydrophilic ointment DAB	17083301	1
Bombastus	Paraffin, yellow	1709015-01	1
Bombastus	Paraffin, white	17148702	1
Bombastus	Hydrophilic ointment DAB	17185501	1
Bombastus	Wool alcohol ointment DAB	17206001	1
Bombastus	Unguentum Cordes®	17A003	1
Bombastus	Unguentum Cordes®	17A005	2
Bombastus	Unguentum Cordes®	17A104	1
Bombastus	Paraffin, white	17L22-T05-054145	1
Bombastus	Paraffin, yellow	180000670	1
Bombastus	Paraffin, white	18000100	3
Bombastus	Paraffin, white	18000101	30
Bombastus	Paraffin, white	180002116P-180827-5	1
Bombastus	Hydrophobic base gel DAC	180005370	1
Bombastus	Wool alcohol ointment SR wit…	18000621	6
Bombastus	Wool alcohol ointment SR/DAC	18000622	5
Bombastus	Wool alcohol ointment SR/DAC	18000623	7
Bombastus	Wool alcohol ointment SR wit…	18000625	3
Bombastus	Paraffin, yellow	18000669	3
Bombastus	Paraffin, white	18000670	23
Bombastus	Wool alcohol ointment DAB	18001094	21
Bombastus	Wool alcohol ointment DAB	18001095	7
Bombastus	Wool alcohol ointment DAB	18001096	3
Bombastus	Hydrophobic base gel DAC	18001099	9
Bombastus	Hydrophilic ointment DAB	18001503	1
Bombastus	Hydrophilic ointment DAB	18001504	1
Bombastus	Hydrophilic ointment DAB	18001505	2
Bombastus	Hydrophilic ointment DAB	18001506	8
Bombastus	Paraffin, white	18002116	1
Bombastus	Paraffin, white	18002117	30
Bombastus	Paraffin, liquid	18002494	2
Bombastus	Wool alcohol ointment DAB	18002495	3
Bombastus	Wool alcohol ointment DAB	18002496	3
Bombastus	Wool alcohol ointment DAB	18002497	12
Bombastus	Wool alcohol ointment DAB	18002498	6
Bombastus	Hydrophilic ointment DAB	18002963	11
Bombastus	Hydrophobic base gel DAC	18003236	10
Bombastus	Wool alcohol ointment SR/DAC	18003445	5
Bombastus	Wool alcohol ointment SR wit…	18003446	7
Bombastus	Wool alcohol ointment SR wit…	18003447	4
Bombastus	Wool alcohol ointment SR wit…	18003448	12
Bombastus	Wool alcohol ointment SR wit…	18003449	5
Bombastus	Eye paraffin	1800348	1
Bombastus	Paraffin, white	18003483	1
Bombastus	Paraffin, white	18003484	54

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Paraffin, white	18003513P-190312-6	1
Bombastus	Hydrophobic base gel DAC	18004043	7
Bombastus	Wool alcohol ointment DAB	18004090	14
Bombastus	Wool alcohol ointment DAB	18004091	8
Bombastus	Wool alcohol ointment DAB	18004092	5
Bombastus	Paraffin, yellow	18004334	13
Bombastus	Wool alcohol ointment SR/DAC	1800433445	1
Bombastus	Hydrophilic ointment DAB	18004573	2
Bombastus	Hydrophilic ointment DAB	18004574	7
Bombastus	Hydrophilic ointment DAB	18004575	5
Bombastus	Hydrophilic ointment DAB	18004576	3
Bombastus	Hydrophilic ointment DAB	18004577	4
Bombastus	Hydrophilic ointment DAB	18004578	5
Bombastus	Hydrophilic ointment DAB	18004579	8
Bombastus	Hydrophilic ointment DAB	18004580	12
Bombastus	Hydrophilic ointment DAB	18004581	9
Bombastus	Wool alcohol ointment SR/DAC	18005346	4
Bombastus	Wool alcohol ointment SR/DAC	18005347	7
Bombastus	Wool alcohol ointment SR/DAC	18005348	6
Bombastus	Wool alcohol ointment SR/DAC	18005349	5
Bombastus	Hydrophobic base gel DAC	18005369	6
Bombastus	Hydrophobic base gel DAC	18005370	7
Bombastus	Wool alcohol ointment SR/DAC	180055348	1
Bombastus	Wool alcohol ointment DAB	18005544	3
Bombastus	Wool alcohol ointment DAB	18005545	21
Bombastus	Wool alcohol ointment DAB	18005546	20
Bombastus	Wool alcohol ointment DAB	18005547	13
Bombastus	Paraffin, white	18005698	34
Bombastus	Paraffin, yellow	18005700	2
Bombastus	Paraffin, yellow	18005701	12
Bombastus	Paraffin, white	18006513	1
Bombastus	Paraffin, white	18006514	25
Bombastus	Paraffin, yellow	18006802	1
Bombastus	Paraffin, yellow	18006803	20
Bombastus	Emulsifying hydrophobic base...	18075802	1
Bombastus	Paraffin, white	18174312	1
Bombastus	Wool alcohol ointment DAB	1821010	1
Bombastus	Wool alcohol ointment DAB	18250402	2
Bombastus	Emulsifying hydrophobic base...	18315801	1
Bombastus	Unguentum Cordes®	18A050	1
Bombastus	Paraffin, white	190006208	1
Bombastus	Hydrophobic base gel DAC	19001129	1
Bombastus	Hydrophobic base gel DAC	19001130	14
Bombastus	Paraffin, liquid	19001235	1
Bombastus	Paraffin, white	19001674P-190718-6	1
Bombastus	Paraffin, white	19001675	39
Bombastus	Wool alcohol ointment DAB	19001789	2
Bombastus	Wool alcohol ointment DAB	19001790	2
Bombastus	Wool alcohol ointment DAB	19001791	7
Bombastus	Wool alcohol ointment DAB	19001792	4
Bombastus	Paraffin, yellow	19001881	1
Bombastus	Paraffin, yellow	19001882	19
Bombastus	Wool alcohol ointment DAB	1900191	1
Bombastus	Wool alcohol ointment SR/DAC	19001990	1
Bombastus	Wool alcohol ointment DAB	19001991	4
Bombastus	Wool alcohol ointment SR/DAC	19001992	5
Bombastus	Wool alcohol ointment SR/DAC	19001993	8
Bombastus	Wool alcohol ointment SR wit...	19001994	3
Bombastus	Wool alcohol ointment DAB	19002478	1
Bombastus	Wool alcohol ointment DAB	19002479	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol ointment DAB	19002480	2
Bombastus	Hydrophobic base gel DAC	19002600	1
Bombastus	Paraffin, white	190030174	1
Bombastus	Paraffin, white	19003073	1
Bombastus	Paraffin, white	19003074	41
Bombastus	Hydrophobic base gel DAC	19003314	1
Bombastus	Hydrophobic base gel DAC	19003315	11
Bombastus	Wool alcohol ointment DAB	19003800	1
Bombastus	Wool alcohol ointment DAB	19003801	9
Bombastus	Wool alcohol ointment DAB	19003802	15
Bombastus	Wool alcohol ointment DAB	19003803	4
Bombastus	Paraffin, liquid	19004134	14
Bombastus	Wool alcohol ointment SR/DAC	19004358	2
Bombastus	Wool alcohol ointment SR/DAC	19004359	1
Bombastus	Wool alcohol ointment SR/DAC	19004360	5
Bombastus	Wool alcohol ointment SR wit…	19004361	6
Bombastus	Paraffin, yellow	19004375	6
Bombastus	Hydrophilic ointment DAB	19004428	2
Bombastus	Hydrophilic ointment DAB	19004429	3
Bombastus	Hydrophilic ointment DAB	19004430	7
Bombastus	Hydrophobic base gel DAC	19004796	1
Bombastus	Hydrophobic base gel DAC	19004797	1
Bombastus	Paraffin, white	19004887	2
Bombastus	Paraffin, white	19004888	47
Bombastus	Wool alcohol ointment DAB	19005078	14
Bombastus	Wool alcohol ointment DAB	19005079	8
Bombastus	Wool alcohol ointment DAB	19005080	1
Bombastus	Paraffin, yellow	19005891	1
Bombastus	Paraffin, yellow	19005892	10
Bombastus	Paraffin, white	19006207	1
Bombastus	Paraffin, white	19006207P-200326-6	1
Bombastus	Paraffin, white	19006208	38
Bombastus	Hydrophilic ointment DAB	19006221	2
Bombastus	Hydrophilic ointment DAB	19006223	9
Bombastus	Hydrophilic ointment DAB	19006224	6
Bombastus	Wool alcohol ointment SR/DAC	19006412	1
Bombastus	Paraffin, liquid	19006616	11
Bombastus	Hydrophobic base gel DAC	19011905	1
Bombastus	Paraffin, white	190617112651	3
Bombastus	Paraffin, white	19101701	1
Bombastus	Hydrophobic base gel DAC	2(18001099)	1
Bombastus	Hydrophobic base gel DAC	20000051	4
Bombastus	Hydrophobic base gel DAC	20000052	2
Bombastus	Paraffin, white	200001819	2
Bombastus	Paraffin, white	200003115	1
Bombastus	Wool alcohol ointment DAB	20000378	3
Bombastus	Wool alcohol ointment DAB	20000379	9
Bombastus	Wool alcohol ointment DAB	20000380	11
Bombastus	Wool alcohol ointment DAB	20000381	5
Bombastus	Paraffin, white	200004954	1
Bombastus	Wool alcohol ointment SR/DAC	20000785	1
Bombastus	Wool alcohol ointment SR/DAC	20000786	2
Bombastus	Wool alcohol ointment SR wit…	20000787	1
Bombastus	Wool alcohol ointment SR/DAC	20000788	1
Bombastus	Hydrophobic base gel DAC	20001105	8
Bombastus	Paraffin, white	20001305	1
Bombastus	Hydrophilic ointment DAB	20001428	1
Bombastus	Paraffin, white	20001819	12
Bombastus	Hydrophilic ointment DAB	20001926	2
Bombastus	Hydrophilic ointment DAB	20001927	13

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol ointment DAB	20002125	3
Bombastus	Wool alcohol ointment DAB	20002126	3
Bombastus	Wool alcohol ointment DAB	20002127	5
Bombastus	Wool alcohol ointment DAB	20002128	4
Bombastus	Paraffin, yellow	20002910	5
Bombastus	Paraffin, white	20003114	1
Bombastus	Paraffin, white	20003115	20
Bombastus	Paraffin, liquid	20003767	2
Bombastus	Wool alcohol ointment DAB	2000381	1
Bombastus	Wool alcohol ointment DAB	20003915	3
Bombastus	Wool alcohol ointment DAB	20003916	9
Bombastus	Wool alcohol ointment SR wit…	20004157	1
Bombastus	Hydrophilic ointment DAB	20004176	1
Bombastus	Hydrophilic ointment DAB	20004177	4
Bombastus	Hydrophobic base gel DAC	20004214	4
Bombastus	Hydrophobic base gel DAC	20004864	1
Bombastus	Paraffin, white	20004954	25
Bombastus	Hydrophilic ointment DAB	20005189	1
Bombastus	Hydrophilic ointment DAB	20005190	5
Bombastus	Paraffin, yellow	20005305	9
Bombastus	Paraffin, liquid	20005329	7
Bombastus	Wool alcohol ointment DAB	2002127	1
Bombastus	Paraffin, white	2002312549	1
Bombastus	Paraffin, white	2003115	2
Bombastus	Hydrophilic ointment DAB	2005188	1
Bombastus	Paraffin, white	2014Q2549	1
Bombastus	Paraffin, white	21000094	1
Bombastus	Hydrophobic base gel DAC	21000169	2
Bombastus	Wool alcohol ointment DAB	21000375	1
Bombastus	Wool alcohol ointment DAB	21000376	3
Bombastus	Wool alcohol ointment DAB	21000377	3
Bombastus	Paraffin, white	21000545	7
Bombastus	Hydrophilic ointment DAB	21001999	1
Bombastus	Hydrophilic ointment DAB	2100200	1
Bombastus	Hydrophilic ointment DAB	21002000	2
Bombastus	Paraffin, white	21002249	1
Bombastus	Paraffin, white	21002294	17
Bombastus	Paraffin, liquid	21002304	2
Bombastus	Paraffin, yellow	21002776	1
Bombastus	Wool alcohol ointment DAB	21003020	1
Bombastus	Wool alcohol ointment DAB	21003021	2
Bombastus	Wool alcohol ointment DAB	21003022	3
Bombastus	Wool alcohol ointment DAB	21003023	1
Bombastus	Wool alcohol ointment SR/DAC	21003052	1
Bombastus	Hydrophobic base gel DAC	21003067	1
Bombastus	Hydrophobic base gel DAC	21003068	1
Bombastus	Paraffin, white	21003553	7
Bombastus	Hydrophilic ointment DAB	21003586	1
Bombastus	Hydrophilic ointment DAB	21003587	1
Bombastus	Hydrophilic ointment DAB	21003588	1
Bombastus	Wool alcohol ointment DAB	21004816	1
Bombastus	Paraffin, white	21005337	4
Bombastus	Paraffin, liquid	210906(20005329)	1
Bombastus	Paraffin, yellow	211215(21002776)	1
Bombastus	Paraffin, liquid	211217(21002304)	1
Bombastus	Wool alcohol ointment DAB	22000955	2
Bombastus	Wool alcohol ointment DAB	22000956	3
Bombastus	Emulsifying hydrophobic base…	22011402	1
Bombastus	Paraffin, liquid	220307(21002304)	1
Bombastus	Paraffin, liquid	220614(21002304)	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Paraffin, yellow	220712(22000236)	1
Bombastus	Paraffin, liquid	220905(21002304)	1
Bombastus	Emulsifying hydrophobic base...	22111307	1
Bombastus	Hydrophobic base gel DAC	23121704	1
Bombastus	Hydrophobic base gel DAC	24031504	1
Bombastus	Wool alcohol ointment DAB	254685	1
Bombastus	Emulsifying hydrophobic base...	255106	1
Bombastus	Wool alcohol ointment DAB	256518	1
Bombastus	Paraffin, white	258551	1
Bombastus	Hydrophobic base gel DAC	26081706	1
Bombastus	Wool alcohol ointment DAB	261436	1
Bombastus	Wool alcohol ointment DAB	262037	1
Bombastus	Emulsifying hydrophobic base...	262696	1
Bombastus	Wool alcohol ointment DAB	263456	1
Bombastus	Paraffin, white	263683	1
Bombastus	Wool alcohol ointment DAB	265139	1
Bombastus	Wool alcohol ointment DAB	265502	1
Bombastus	Paraffin, white	265508	1
Bombastus	Paraffin, white	265814	2
Bombastus	Paraffin, white	267009	1
Bombastus	Paraffin, white	267010	2
Bombastus	Paraffin, white	267671	2
Bombastus	Wool alcohol ointment DAB	267675	2
Bombastus	Hydrophobic base gel DAC	268013	1
Bombastus	Paraffin, white	268016	1
Bombastus	Paraffin, white	268099	2
Bombastus	Paraffin, white	268390	1
Bombastus	Wool alcohol ointment SR wit...	268467	1
Bombastus	Hydrophilic ointment DAB	269532	1
Bombastus	Hydrophilic ointment DAB	269534	2
Bombastus	Hydrophilic ointment DAB	269536	1
Bombastus	Hydrophilic ointment DAB	269537	1
Bombastus	Hydrophilic ointment DAB	269539	3
Bombastus	Wool alcohol ointment DAB	269617	1
Bombastus	Paraffin, white	269731	1
Bombastus	Paraffin, white	269732	1
Bombastus	Paraffin, white	269733	1
Bombastus	Paraffin, white	269734	3
Bombastus	Paraffin, white	270163	2
Bombastus	Paraffin, white	270165	1
Bombastus	Paraffin, white	2704212549	1
Bombastus	Paraffin, white	270489	3
Bombastus	Paraffin, white	270490	1
Bombastus	Paraffin, white	270491	1
Bombastus	Paraffin, white	270492	1
Bombastus	Paraffin, white	270553	1
Bombastus	Paraffin, white	270634	3
Bombastus	Paraffin, white	270635	4
Bombastus	Wool alcohol ointment DAB	270640	2
Bombastus	Wool alcohol ointment DAB	270642	2
Bombastus	Wool alcohol ointment DAB	270643	4
Bombastus	Wool alcohol ointment SR wit...	270776	1
Bombastus	Wool alcohol ointment DAB	270780	2
Bombastus	Wool alcohol ointment SR wit...	270781	1
Bombastus	Wool alcohol ointment SR wit...	270784	2
Bombastus	Paraffin, white	270831	1
Bombastus	Paraffin, white	270834	4
Bombastus	Paraffin, white	270976	4
Bombastus	Paraffin, white	270977	2
Bombastus	Paraffin, white	270978	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Paraffin, white	270979	5
Bombastus	Paraffin, white	270980	2
Bombastus	Paraffin, white	270981	1
Bombastus	Paraffin, white	270982	3
Bombastus	Paraffin, white	270984	1
Bombastus	Emulsifying hydrophobic base...	271106	2
Bombastus	Paraffin, white	271213	3
Bombastus	Paraffin, white	271260	1
Bombastus	Paraffin, white	271261	2
Bombastus	Paraffin, white	271435	1
Bombastus	Paraffin, white	271437	4
Bombastus	Hydrophobic base gel DAC	271904	2
Bombastus	Wool alcohol ointment DAB	272171	1
Bombastus	Hydrophilic ointment DAB	274002	1
Bombastus	Hydrophilic ointment DAB	274003	1
Bombastus	Hydrophilic ointment DAB	274004	1
Bombastus	Wool alcohol ointment DAB	274282	3
Bombastus	Wool alcohol ointment SR wit...	274517	2
Bombastus	Wool alcohol ointment SR wit...	274518	3
Bombastus	Wool alcohol ointment SR wit...	274521	1
Bombastus	Wool alcohol ointment DAB	275999	2
Bombastus	Paraffin, white	276088	1
Bombastus	Paraffin, white	2761127	1
Bombastus	Paraffin, white	276127	1
Bombastus	Wool alcohol ointment SR wit...	276135	1
Bombastus	Hydrophilic ointment DAB	276670	1
Bombastus	Hydrophilic ointment DAB	276671	5
Bombastus	Paraffin, white	276968	1
Bombastus	Wool alcohol ointment SR wit...	277022	3
Bombastus	Wool alcohol ointment SR wit...	277023	2
Bombastus	Wool alcohol ointment SR wit...	277024	6
Bombastus	Paraffin, white	277059	2
Bombastus	Paraffin, white	277060	5
Bombastus	Wool alcohol ointment DAB	277190	1
Bombastus	Wool alcohol ointment DAB	277191	1
Bombastus	Wool alcohol ointment DAB	277192	3
Bombastus	Hydrophobic base gel DAC	277443	3
Bombastus	Paraffin, white	277986	2
Bombastus	Paraffin, white	277987	5
Bombastus	Paraffin, white	277988	2
Bombastus	Paraffin, white	278595	1
Bombastus	Paraffin, white	278620	1
Bombastus	Wool alcohol ointment DAB	278684	4
Bombastus	Hydrophilic ointment DAB	279000	2
Bombastus	Hydrophilic ointment DAB	279001	2
Bombastus	Hydrophilic ointment DAB	279002	8
Bombastus	Hydrophobic base gel DAC	279074	5
Bombastus	Wool alcohol ointment SR wit...	279103	1
Bombastus	Wool alcohol ointment SR wit...	279104	2
Bombastus	Wool alcohol ointment SR wit...	279105	4
Bombastus	Paraffin, white	279161	6
Bombastus	Paraffin, white	279805	1
Bombastus	Wool alcohol ointment DAB	279927	4
Bombastus	Wool alcohol ointment DAB	279928	4
Bombastus	Wool alcohol ointment DAB	279934	4
Bombastus	Paraffin, white	279969	3
Bombastus	Paraffin, white	279970	4
Bombastus	Wool alcohol ointment SR wit...	280057	2
Bombastus	Wool alcohol ointment SR wit...	280058	3
Bombastus	Wool alcohol ointment SR wit...	280059	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol ointment SR wit…	280060	1
Bombastus	Wool alcohol ointment SR wit…	280061	3
Bombastus	Paraffin, white	280452	8
Bombastus	Paraffin, white	280702	3
Bombastus	Hydrophobic base gel DAC	28111403	1
Bombastus	Hydrophilic ointment DAB	281248	1
Bombastus	Paraffin, white	281291	6
Bombastus	Hydrophilic ointment DAB	281346	2
Bombastus	Hydrophilic ointment DAB	281347	1
Bombastus	Hydrophilic ointment DAB	281348	3
Bombastus	Hydrophilic ointment DAB	281349	1
Bombastus	Hydrophilic ointment DAB	281350	1
Bombastus	Hydrophilic ointment DAB	281351	6
Bombastus	Paraffin, white	281539	1
Bombastus	Wool alcohol ointment DAB	281690	5
Bombastus	Hydrophobic base gel DAC	282094	6
Bombastus	Paraffin, white	282336	2
Bombastus	Paraffin, white	282699	1
Bombastus	Paraffin, yellow	28270	1
Bombastus	Paraffin, white	282700	5
Bombastus	Paraffin, white	282964	3
Bombastus	Paraffin, white	282966	8
Bombastus	Wool alcohol ointment SR wit…	283174	1
Bombastus	Wool alcohol ointment DAB	283175	1
Bombastus	Wool alcohol ointment SR wit…	283176	5
Bombastus	Wool alcohol ointment DAB	283618	7
Bombastus	Wool alcohol ointment DAB	283619	3
Bombastus	Paraffin, white	283873	1
Bombastus	Paraffin, white	283948	1
Bombastus	Paraffin, white	283949	6
Bombastus	Paraffin, white	283951	1
Bombastus	Hydrophobic base gel DAC	283998	1
Bombastus	Wool alcohol ointment SR wit…	284378	2
Bombastus	Wool alcohol ointment SR wit…	284379	1
Bombastus	Wool alcohol ointment SR wit…	284381	1
Bombastus	Hydrophilic ointment DAB	284746	2
Bombastus	Hydrophilic ointment DAB	284747	1
Bombastus	Hydrophilic ointment DAB	284748	6
Bombastus	Paraffin, white	285231	3
Bombastus	Paraffin, white	285309	2
Bombastus	Paraffin, white	285310	13
Bombastus	Wool alcohol ointment DAB	285423	1
Bombastus	Wool alcohol ointment SR wit…	285952	2
Bombastus	Hydrophobic base gel DAC	286013	1
Bombastus	Paraffin, white	286095	3
Bombastus	Paraffin, white	286096	5
Bombastus	Hydrophilic ointment DAB	286543	1
Bombastus	Hydrophilic ointment DAB	286544	6
Bombastus	Hydrophilic ointment DAB	286545	9
Bombastus	Wool alcohol ointment SR wit…	286880	1
Bombastus	Wool alcohol ointment SR wit…	286884	1
Bombastus	Wool alcohol ointment DAB	287012	1
Bombastus	Wool alcohol ointment DAB	287013	4
Bombastus	Paraffin, white	287147	1
Bombastus	Paraffin, white	287148	3
Bombastus	Paraffin, white	287149	6
Bombastus	Wool alcohol ointment DAB	287619	2
Bombastus	Hydrophilic ointment DAB	288366	1
Bombastus	Hydrophilic ointment DAB	288367	4
Bombastus	Hydrophilic ointment DAB	288368	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrophilic ointment DAB	288369	6
Bombastus	Wool alcohol ointment SR wit…	288686	1
Bombastus	Wool alcohol ointment SR wit…	288688	2
Bombastus	Paraffin, white	288714	5
Bombastus	Paraffin, white	288715	5
Bombastus	Paraffin, white	288716	6
Bombastus	Paraffin, white	288717	3
Bombastus	Wool alcohol ointment DAB	288766	2
Bombastus	Wool alcohol ointment DAB	288834	8
Bombastus	Paraffin, white	2888717	1
Bombastus	Hydrophobic base gel DAC	289213	1
Bombastus	Hydrophobic base gel DAC	289214	7
Bombastus	Paraffin, white	289344	6
Bombastus	Wool alcohol ointment DAB	289509	7
Bombastus	Wool alcohol ointment DAB	289510	4
Bombastus	Paraffin, white	290271	6
Bombastus	Paraffin, white	290441	8
Bombastus	Hydrophilic ointment DAB	290597	2
Bombastus	Hydrophilic ointment DAB	290599	4
Bombastus	Hydrophilic ointment DAB	290600	3
Bombastus	Hydrophilic ointment DAB	290601	9
Bombastus	Paraffin, yellow	290713	2
Bombastus	Paraffin, white	290714	5
Bombastus	Wool alcohol ointment DAB	290735	2
Bombastus	Paraffin, white	2909212549	1
Bombastus	Wool alcohol ointment SR wit…	291175	1
Bombastus	Wool alcohol ointment SR wit…	291176	2
Bombastus	Wool alcohol ointment SR wit…	291177	2
Bombastus	Paraffin, white	291318	14
Bombastus	Paraffin, white	291319	3
Bombastus	Wool alcohol ointment DAB	291794	1
Bombastus	Wool alcohol ointment DAB	291795	4
Bombastus	Wool alcohol ointment DAB	291796	3
Bombastus	Wool alcohol ointment DAB	291797	2
Bombastus	Paraffin, white	292219	2
Bombastus	Paraffin, white	292220	7
Bombastus	Hydrophobic base gel DAC	292717	2
Bombastus	Wool alcohol ointment DAB	293091	3
Bombastus	Wool alcohol ointment DAB	293092	7
Bombastus	Wool alcohol ointment DAB	293093	5
Bombastus	Wool alcohol ointment DAB	29309932mal	1
Bombastus	Hydrophilic ointment DAB	293261	4
Bombastus	Hydrophilic ointment DAB	293262	4
Bombastus	Hydrophilic ointment DAB	293263	2
Bombastus	Hydrophilic ointment DAB	293264	7
Bombastus	Wool alcohol ointment SR wit…	293374	1
Bombastus	Wool alcohol ointment SR wit…	293375	1
Bombastus	Wool alcohol ointment DAB	293376	2
Bombastus	Wool alcohol ointment SR wit…	293378	1
Bombastus	Paraffin, white	293553	3
Bombastus	Paraffin, yellow	293629	12
Bombastus	Wool alcohol ointment DAB	293956	14
Bombastus	Hydrophobic base gel DAC	294417	1
Bombastus	Hydrophobic base gel DAC	294418	4
Bombastus	Hydrophilic ointment DAB	294448	4
Bombastus	Hydrophilic ointment DAB	294449	2
Bombastus	Hydrophilic ointment DAB	294451	4
Bombastus	Paraffin, white	294851	1
Bombastus	Paraffin, white	294852	7
Bombastus	Wool alcohol ointment DAB	295218	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Paraffin, white	295265	2
Bombastus	Paraffin, white	295300	1
Bombastus	Paraffin, white	295301	10
Bombastus	Paraffin, white	295344	5
Bombastus	Wool alcohol ointment DAB	295357	1
Bombastus	Wool alcohol ointment SR wit…	295358	3
Bombastus	Wool alcohol ointment SR wit…	295359	2
Bombastus	Wool alcohol ointment SR wit…	295360	4
Bombastus	Hydrophobic base gel DAC	295369	1
Bombastus	Hydrophobic base gel DAC	295729	6
Bombastus	Wool alcohol ointment DAB	296235	1
Bombastus	Wool alcohol ointment DAB	296435	12
Bombastus	Wool alcohol ointment DAB	296436	3
Bombastus	Wool alcohol ointment DAB	296437	2
Bombastus	Paraffin, yellow	296654	11
Bombastus	Hydrophilic ointment DAB	296865	3
Bombastus	Hydrophilic ointment DAB	296866	3
Bombastus	Hydrophilic ointment DAB	296867	1
Bombastus	Hydrophilic ointment DAB	296868	6
Bombastus	Wool alcohol ointment SR wit…	297125	1
Bombastus	Wool alcohol ointment SR wit…	297127	1
Bombastus	Wool alcohol ointment SR wit…	297128	4
Bombastus	Wool alcohol ointment SR wit…	297129	2
Bombastus	Wool alcohol ointment SR wit…	297130	1
Bombastus	Paraffin, white	297282	6
Bombastus	Paraffin, white	297283	12
Bombastus	Hydrophobic base gel DAC	297392	1
Bombastus	Hydrophobic base gel DAC	297433	1
Bombastus	Paraffin, white	298427	4
Bombastus	Wool alcohol ointment DAB	298577	12
Bombastus	Wool alcohol ointment DAB	298578	4
Bombastus	Wool alcohol ointment DAB	298579	5
Bombastus	Paraffin, white	298599	15
Bombastus	Paraffin, white	298600	1
Bombastus	Hydrophobic base gel DAC	299263	3
Bombastus	Hydrophilic ointment DAB	299390	4
Bombastus	Hydrophilic ointment DAB	299391	2
Bombastus	Hydrophilic ointment DAB	299392	4
Bombastus	Paraffin, white	299468	2
Bombastus	Paraffin, white	299469	15
Bombastus	Paraffin, white	2999469	1
Bombastus	Wool alcohol ointment SR/DAC	2A221117	1
Bombastus	Wool alcohol ointment SR/DAC	300080	1
Bombastus	Wool alcohol ointment SR/DAC	300081	1
Bombastus	Wool alcohol ointment SR wit…	300082	4
Bombastus	Wool alcohol ointment SR wit…	300083	2
Bombastus	Wool alcohol ointment SR wit…	300084	4
Bombastus	Hydrophobic base gel DAC	3000896	1
Bombastus	Paraffin, white	300119	3
Bombastus	Paraffin, white	300120	14
Bombastus	Wool alcohol ointment DAB	300281	1
Bombastus	Wool alcohol ointment DAB	300282	6
Bombastus	Wool alcohol ointment DAB	300283	4
Bombastus	Paraffin, yellow	300422	1
Bombastus	Paraffin, yellow	300423	9
Bombastus	Paraffin, white	30061201	1
Bombastus	Wool alcohol ointment SR wit…	30079	1
Bombastus	Hydrophobic base gel DAC	300895	1
Bombastus	Hydrophobic base gel DAC	300896	4
Bombastus	Hydrophilic ointment DAB	301094	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrophilic ointment DAB	301095	1
Bombastus	Hydrophilic ointment DAB	301096	3
Bombastus	Hydrophilic ointment DAB	301097	7
Bombastus	Wool alcohol ointment DAB	301199	1
Bombastus	Wool alcohol ointment DAB	301200	3
Bombastus	Wool alcohol ointment DAB	301202	5
Bombastus	Paraffin, white	3013M2549	1
Bombastus	Paraffin, yellow	301908	12
Bombastus	Wool alcohol ointment SR/DAC	301935	1
Bombastus	Wool alcohol ointment SR/DAC	301937	2
Bombastus	Wool alcohol ointment SR/DAC	301938	2
Bombastus	Wool alcohol ointment SR/DAC	301940	2
Bombastus	Paraffin, white	302037	26
Bombastus	Hydrophobic base gel DAC	302142	1
Bombastus	Hydrophobic base gel DAC	302145	2
Bombastus	Wool alcohol ointment DAB	302206	11
Bombastus	Wool alcohol ointment DAB	302207	3
Bombastus	Wool alcohol ointment DAB	302208	2
Bombastus	Wool alcohol ointment DAB	30226	2
Bombastus	Wool alcohol ointment SR/DAC	302598	4
Bombastus	Wool alcohol ointment SR wit…	302599	10
Bombastus	Wool alcohol ointment SR/DAC	302600	2
Bombastus	Hydrophilic ointment DAB	302998	1
Bombastus	Hydrophilic ointment DAB	302999	1
Bombastus	Hydrophobic base gel DAC	302I45	1
Bombastus	Hydrophilic ointment DAB	303000	1
Bombastus	Hydrophilic ointment DAB	303001	4
Bombastus	Paraffin, white	303786	1
Bombastus	Paraffin, yellow	303809	9
Bombastus	Wool alcohol ointment DAB	303846	13
Bombastus	Wool alcohol ointment DAB	303847	8
Bombastus	Wool alcohol ointment DAB	303848	2
Bombastus	Paraffin, yellow	303871	1
Bombastus	Wool alcohol ointment SR/DAC	303993	1
Bombastus	Wool alcohol ointment SR/DAC	303994	1
Bombastus	Wool alcohol ointment SR/DAC	303995	4
Bombastus	Wool alcohol ointment DAB	303996	4
Bombastus	Hydrophobic base gel DAC	304035	4
Bombastus	Hydrophobic base gel DAC	304036	8
Bombastus	Hydrophobic base gel DAC	304045	3
Bombastus	Paraffin, white	304124	21
Bombastus	Paraffin, white	304125	1
Bombastus	Paraffin, white	304126	1
Bombastus	Paraffin, yellow	304847	5
Bombastus	Wool alcohol ointment DAB	304998	3
Bombastus	Paraffin, white	305140	1
Bombastus	Paraffin, white	305197	1
Bombastus	Hydrophilic ointment DAB	305394	3
Bombastus	Hydrophilic ointment DAB	305395	7
Bombastus	Hydrophilic ointment DAB	305396	3
Bombastus	Hydrophilic ointment DAB	305397	5
Bombastus	Wool alcohol ointment SR/DAC	305546	1
Bombastus	Wool alcohol ointment SR/DAC	305548	4
Bombastus	Wool alcohol ointment DAB	305878	2
Bombastus	Wool alcohol ointment DAB	305879	19
Bombastus	Wool alcohol ointment DAB	305880	5
Bombastus	Wool alcohol ointment DAB	305881	4
Bombastus	Paraffin, white	306019	1
Bombastus	Paraffin, white	306020	29
Bombastus	Paraffin, yellow	306182	14

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol ointment SR/DAC	306218	1
Bombastus	Hydrophobic base gel DAC	306482	3
Bombastus	Hydrophobic base gel DAC	306483	1
Bombastus	Paraffin, yellow	307079	14
Bombastus	Hydrophilic ointment DAB	307092	2
Bombastus	Hydrophilic ointment DAB	307093	2
Bombastus	Hydrophilic ointment DAB	307094	5
Bombastus	Hydrophilic ointment DAB	307095	10
Bombastus	Paraffin, white	307661	29
Bombastus	Wool alcohol ointment DAB	307773	1
Bombastus	Wool alcohol ointment DAB	307774	11
Bombastus	Wool alcohol ointment DAB	307775	11
Bombastus	Wool alcohol ointment DAB	307776	4
Bombastus	Wool alcohol ointment SR/DAC	308138	1
Bombastus	Wool alcohol ointment SR/DAC	308142	5
Bombastus	Wool alcohol ointment SR/DAC	308143	2
Bombastus	Wool alcohol ointment SR/DAC	308144	3
Bombastus	Wool alcohol ointment SR wit…	308145	10
Bombastus	Wool alcohol ointment SR/DAC	308146	2
Bombastus	Paraffin, white	308197	23
Bombastus	Hydrophobic base gel DAC	308439	2
Bombastus	Hydrophobic base gel DAC	308440	7
Bombastus	Wool alcohol ointment DAB	308843	8
Bombastus	Wool alcohol ointment DAB	308844	1
Bombastus	Wool alcohol ointment DAB	308845	2
Bombastus	Hydrophilic ointment DAB	308899	2
Bombastus	Hydrophilic ointment DAB	308900	3
Bombastus	Paraffin, white	309122	8
Bombastus	Paraffin, white	309563	2
Bombastus	Paraffin, white	309564	26
Bombastus	Paraffin, yellow	310191	1
Bombastus	Paraffin, yellow	310192	19
Bombastus	Wool alcohol ointment DAB	310488	5
Bombastus	Wool alcohol ointment SR/DAC	310489	1
Bombastus	Hydrophobic base gel DAC	310631	8
Bombastus	Hydrophilic ointment DAB	311063	2
Bombastus	Hydrophilic ointment DAB	311064	1
Bombastus	Hydrophilic ointment DAB	311065	4
Bombastus	Hydrophilic ointment DAB	311066	2
Bombastus	Hydrophilic ointment DAB	311067	9
Bombastus	Paraffin, white	311259	16
Bombastus	Wool alcohol ointment DAB	311386	1
Bombastus	Wool alcohol ointment DAB	311387	4
Bombastus	Wool alcohol ointment DAB	311388	5
Bombastus	Wool alcohol ointment DAB	311389	3
Bombastus	Paraffin, white	3113Q02549	1
Bombastus	Paraffin, white	31259	1
Bombastus	Wool alcohol ointment SR/DAC	3505546	1
Bombastus	Wool alcohol ointment DAB	3516A-01370	1
Bombastus	Eye ointment, emulsifying DAC	3B070318	1
Bombastus	Paraffin, white	4013E-02549	1
Bombastus	Hydrophobic base gel DAC	4082880	1
Bombastus	Hydrophobic base gel DAC	4082897	1
Bombastus	Hydrophilic ointment DAB	4717Q-02539	1
Bombastus	Hydrophobic base gel DAC	5121804	1
Bombastus	Paraffin, white	5213A2549	1
Bombastus	Paraffin, white	5215200	1
Bombastus	Wool alcohol ointment DAB	60080201	1
Bombastus	Wool alcohol ointment DAB	60080202	2
Bombastus	Wool alcohol ointment DAB	60080203	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Hydrophilic ointment DAB	60080501	3
Bombastus	Paraffin, white	60081102	4
Bombastus	Wool alcohol ointment SR/DAC	60089602	1
Bombastus	Wool alcohol ointment SR/DAC	60089603	1
Bombastus	Hydrophobic base gel DAC	60092501	1
Bombastus	Paraffin, white	6861102	1
Bombastus	Paraffin, white	6861393	3
Bombastus	Wool alcohol ointment DAB	72915810	1
Bombastus	Wool alcohol ointment DAB	74747510	1
Bombastus	Wool alcohol ointment SR/DAC	8003445	1
Bombastus	Paraffin, white	90016751	1
Bombastus	Hydrophobic base gel DAC	9031704	1
Bombastus	Wool alcohol ointment DAB	915M-01370	1
Bombastu-Werke AG/Gehe	Paraffin, white	282964	3
Bombatus Kehr	Hydrophobic base gel DAC	20004864	1
Bombatus/Gehe	Paraffin, white	302037	2
Bombatus/Phönix	Wool alcohol ointment SR/DAC	303995	1
Bombatus	Hydrophilic ointment DAB	18004579	2
Bombatus	Paraffin, yellow	18006803	2
bombatus	Paraffin, yellow	19005891	1
Bombstus/ Phoenix	Paraffin, white	18003484	1
Bombstus/ Phönix	Paraffin, white	280451	1
Bombstus	Wool alcohol ointment DAB	18005546	1
C17342007aelo/Noweda	Eye paraffin	17342007	1
cae	Paraffin, white	13380706	1
cae	Eye paraffin	181797002	1
Caeanlo	Wool alcohol ointment DAB	16198501	1
caedo	Hydrophilic ointment DAB	17185501	1
Caela	Paraffin, white	15441505	1
Caele/ Jenne	Wool alcohol ointment SR wit…	13340003	1
Caele	Eye paraffin	15050002	1
Caeleo/ Krieger	Hydrophilic ointment DAB	21000365001	1
Caelo	Paraffin, white		36
Caelo	Paraffin, white	100/AKD8	1
Caelo	Paraffin, white	10021803	1
Caelo	Hydrophilic ointment DAB	10025601	1
Caelo	Paraffin, white	10039598	1
Caelo	Paraffin, white	10051402	1
Caelo	Paraffin, white	10061715	1
Caelo	Paraffin, white	10071304	1
Caelo	Hydrophilic ointment DAB	10082901	1
Caelo	Paraffin, white	10091301	1
Caelo	Wool alcohol ointment DAB	10136901	1
Caelo	Paraffin, white	10155402	1
Caelo	Paraffin, white	1021302	1
Caelo	Paraffin, white	10220214	1
Caelo	Paraffin, liquid	102559003	1
Caelo	Paraffin, white	10271001	1
Caelo	Eye paraffin	10271807	1
Caelo	Hydrophilic ointment DAB	103/AKD15	1
Caelo	Hydrophilic ointment DAB	103312539	1
Caelo	Paraffin, yellow	1041701	1
Caelo	Hydrophilic ointment DAB	105/AKD16	1
Caelo	Paraffin, yellow	1052401	1
Caelo	Paraffin, white	1061301	1
Caelo	Eye paraffin	10752008	1
Caelo	Paraffin, white	108/AKD12	1
Caelo	Paraffin, white	1081409	1
Caelo	Wool alcohol ointment DAB	10999472002	1
Caelo	Unguentum Cordes®	10A105	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophobic base gel DAC	10L14-T54-009128	1
Caelo	Paraffin, white	11011309	1
Caelo	Hydrophilic ointment DAB	11015402	1
Caelo	Paraffin, white	1101559	1
Caelo	Emulsifying hydrophobic base...	11016804	1
Caelo	Paraffin, white	11021510	1
Caelo	Paraffin, white	11031403	1
Caelo	Paraffin, white	11031707	1
Caelo	Paraffin, white	11040603	1
Caelo	Paraffin, white	11041302	1
Caelo	Paraffin, white	11051702	1
Caelo	Paraffin, white	11060201	1
Caelo	Paraffin, white	11060209	3
Caelo	Paraffin, white	11060210	1
Caelo	Paraffin, white	11060211	1
Caelo	Paraffin, white	11060212	2
Caelo	Paraffin, white	11060213	3
Caelo	Wool alcohol ointment DAB	11068001	1
Caelo	Paraffin, white	11091402	1
Caelo	Paraffin, white	11104901	1
Caelo	Paraffin, white	11104903	1
Caelo	Paraffin, white	11104910	5
Caelo	Emulsifying hydrophobic base...	11105002	1
Caelo	Paraffin, white	11108710	1
Caelo	Paraffin, white	11108711	1
Caelo	Paraffin, white	1111111	1
Caelo	Paraffin, white	11111704	1
Caelo	Paraffin, white	11115501	1
Caelo	Hydrophilic ointment DAB	11133601	2
Caelo	Hydrophilic ointment DAB	11133701	1
Caelo	Wool alcohol ointment DAB	1116756	1
Caelo	Wool alcohol ointment DAB	11184901	1
Caelo	Wool alcohol ointment DAB	11184902	1
Caelo	Wool alcohol ointment DAB	11185001	1
Caelo	Wool alcohol ointment DAB	11185201	1
Caelo	Hydrophilic ointment DAB	1120019	1
Caelo	Hydrophilic ointment DAB	1120462	3
Caelo	Emulsifying hydrophobic base...	11209302	1
Caelo	Hydrophilic ointment DAB	11211601	1
Caelo	Hydrophilic ointment DAB	11212001	1
Caelo	Hydrophilic ointment DAB	11212101	2
Caelo	Hydrophilic ointment DAB	11212201	2
Caelo	Wool alcohol ointment DAB	11232902	1
Caelo	Paraffin, white	11265701	1
Caelo	Paraffin, white	11265703	1
Caelo	Paraffin, white	11265708	2
Caelo	Paraffin, white	11265711	1
Caelo	Paraffin, white	11283902	1
Caelo	Paraffin, white	11301301	5
Caelo	Emulsifying hydrophobic base...	11301605	1
Caelo	Paraffin, white	11315401	1
Caelo	Paraffin, white	11315402	1
Caelo	Paraffin, white	11315408	2
Caelo	Paraffin, white	11315412	1
Caelo	Paraffin, white	11315413	2
Caelo	Wool alcohol ointment DAB	11335001	1
Caelo	Wool alcohol ointment DAB	11335002	6
Caelo	Wool alcohol ointment DAB	11335003	1
Caelo	Wool alcohol ointment DAB	11335101	5
Caelo	Wool alcohol ointment DAB	11335201	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, white	11374903	4
Caelo	Paraffin, white	11374906	4
Caelo	Unguentum Cordes®	11A118	2
Caelo	Unguentum Cordes®	11A162	1
Caelo	Unguentum Cordes®	11A202	1
Caelo	Paraffin, white	12003603	1
Caelo	Paraffin, white	12012604	2
Caelo	Paraffin, white	12012605	1
Caelo	Paraffin, white	12012609	6
Caelo	Paraffin, white	12012707	2
Caelo	Hydrophilic ointment DAB	12014601	1
Caelo	Hydrophilic ointment DAB	12014602	1
Caelo	Hydrophilic ointment DAB	12014701	2
Caelo	Hydrophilic ointment DAB	12015001	3
Caelo	Wool alcohol ointment DAB	12016202	2
Caelo	Wool alcohol ointment DAB	12016203	6
Caelo	Paraffin, white	12031202	1
Caelo	Paraffin, white	12032404	1
Caelo	Paraffin, white	12032405	1
Caelo	Paraffin, white	12032412	2
Caelo	Paraffin, white	12032413	21
Caelo	Paraffin, white	1203413	1
Caelo	Paraffin, white	12041801	1
Caelo	Paraffin, white	1204209	1
Caelo	Hydrophilic ointment DAB	12051401	1
Caelo	Hydrophilic ointment DAB	12055801	2
Caelo	Hydrophilic ointment DAB	12055901	7
Caelo	Hydrophilic ointment DAB	12056001	1
Caelo	Hydrophilic ointment DAB	12056002	4
Caelo	Paraffin, white	12061201	1
Caelo	Paraffin, white	12071804	1
Caelo	Paraffin, white	12071805	5
Caelo	Wool alcohol ointment DAB	12076601	2
Caelo	Wool alcohol ointment DAB	12076602	1
Caelo	Wool alcohol ointment DAB	12076701	2
Caelo	Emulsifying hydrophobic base…	12078001	1
Caelo	Paraffin, white	12078105	1
Caelo	Wool alcohol ointment SR wit…	12078201	1
Caelo	Paraffin, white	12081404	1
Caelo	Paraffin, white	12081502	1
Caelo	Paraffin, white	12081504	1
Caelo	Paraffin, white	12081601	3
Caelo	Hydrophilic ointment DAB	12086702	3
Caelo	Paraffin, white	1210006-01	1
Caelo	Paraffin, white	12111203	1
Caelo	Paraffin, white	12111307	1
Caelo	Paraffin, white	12115101	12
Caelo	Paraffin, white	12115102	16
Caelo	Paraffin, white	12115105	1
Caelo	Paraffin, white	12115106	7
Caelo	Paraffin, white	12115107	10
Caelo	Paraffin, white	12115108	5
Caelo	Paraffin, white	12115113	1
Caelo	Paraffin, white	12121201	1
Caelo	Paraffin, white	12121204	1
Caelo	Wool alcohol ointment DAB	1212M-01370	1
Caelo	Paraffin, white	1215106	1
Caelo	Wool alcohol ointment DAB	12151801	2
Caelo	Wool alcohol ointment DAB	12151802	2
Caelo	Wool alcohol ointment DAB	12151901	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment DAB	12151903	6
Caelo	Wool alcohol ointment DAB	12152001	5
Caelo	Emulsifying hydrophobic base...	12160201	4
Caelo	Emulsifying hydrophobic base...	12182303	3
Caelo	Paraffin, white	12182504	1
Caelo	Paraffin, white	12182505	9
Caelo	Paraffin, white	12190401	4
Caelo	Hydrophilic ointment DAB	12204802	6
Caelo	Hydrophilic ointment DAB	12204803	1
Caelo	Hydrophilic ointment DAB	12204901	2
Caelo	Hydrophilic ointment DAB	12205001	7
Caelo	Hydrophilic ointment DAB	12205101	4
Caelo	Hydrophilic ointment DAB	12205201	7
Caelo	Paraffin, white	122092004	1
Caelo	Paraffin, white	12209203	3
Caelo	Paraffin, white	12209204	17
Caelo	Paraffin, white	12209210	30
Caelo	Hydrophobic base gel DAC	12229001	6
Caelo	Hydrophobic base gel DAC	12229003	7
Caelo	Hydrophobic base gel DAC	12229005	1
Caelo	Paraffin, yellow	1223102	1
Caelo	Emulsifying hydrophobic base...	12303402	6
Caelo	Paraffin, white	12306202	2
Caelo	Paraffin, white	12306302	7
Caelo	Paraffin, white	12306303	1
Caelo	Paraffin, white	12306401	5
Caelo	Paraffin, white	1231010	1
Caelo	Paraffin, white	12311003	4
Caelo	Paraffin, white	12311004	6
Caelo	Paraffin, white	12311010	12
Caelo	Paraffin, white	12311011	12
Caelo	Hydrophilic ointment DAB	12311102	5
Caelo	Hydrophilic ointment DAB	12311301	8
Caelo	Hydrophilic ointment DAB	12311401	11
Caelo	Hydrophilic ointment DAB	12311501	14
Caelo	Hydrophilic ointment DAB	12311502	2
Caelo	Hydrophilic ointment DAB	12311701	6
Caelo	Hydrophilic ointment DAB	12311801	3
Caelo	Paraffin, white	12321902	2
Caelo	Paraffin, white	12321905	4
Caelo	Paraffin, white	12321906	3
Caelo	Paraffin, white	12321908	4
Caelo	Paraffin, white	12337701	5
Caelo	Paraffin, white	12337703	16
Caelo	Paraffin, white	12337704	12
Caelo	Paraffin, white	12337706	13
Caelo	Paraffin, white	12337707	9
Caelo	Paraffin, white	12337708	18
Caelo	Paraffin, white	12337709	15
Caelo	Wool alcohol ointment DAB	12339901	4
Caelo	Wool alcohol ointment DAB	12340001	4
Caelo	Wool alcohol ointment DAB	12340002	3
Caelo	Wool alcohol ointment DAB	12340003	1
Caelo	Wool alcohol ointment DAB	1234002	1
Caelo	Wool alcohol ointment DAB	12340101	7
Caelo	Emulsifying hydrophobic base...	12343501	4
Caelo	Paraffin, white	123456	2
Caelo	Hydrophobic base gel DAC	12362503	5
Caelo	Hydrophobic base gel DAC	12362504	3
Caelo	Hydrophobic base gel DAC	12362505	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophobic base gel DAC	123662505	1
Caelo	Paraffin, white	12374501	5
Caelo	Paraffin, white	12374502	12
Caelo	Unguentum Cordes®	12A021	1
Caelo	Unguentum Cordes®	12A022	1
Caelo	Unguentum Cordes®	12A056	1
Caelo	Unguentum Cordes®	12A060	1
Caelo	Unguentum Cordes®	12A078	1
Caelo	Unguentum Cordes®	12A130	2
Caelo	Unguentum Cordes®	12A131	1
Caelo	Unguentum Cordes®	12A140	1
Caelo	Unguentum Cordes®	12A141	1
Caelo	Unguentum Cordes®	12A146	1
Caelo	Unguentum Cordes®	12A156	1
Caelo	Unguentum Cordes®	12A183	2
Caelo	Unguentum Cordes®	12A185	1
Caelo	Unguentum Cordes®	12A206	4
Caelo	Unguentum Cordes®	12A211	1
Caelo	Paraffin, white	12D19-T54-000715	3
Caelo	Hydrophilic ointment DAB	12J31T04	1
Caelo	Hydrophilic ointment DAB	12J31-T04	1
Caelo	Paraffin, white	12K01-T52-002659	1
Caelo	Paraffin, white	13005701	8
Caelo	Paraffin, white	13005708	2
Caelo	Paraffin, white	13005710	6
Caelo	Paraffin, white	13005711	14
Caelo	Paraffin, white	13005712	13
Caelo	Paraffin, white	13005713	5
Caelo	Paraffin, white	13005719	9
Caelo	Paraffin, white	13005720	2
Caelo	Paraffin, white	13011407	1
Caelo	Hydrophilic ointment DAB	13013901	2
Caelo	Hydrophilic ointment DAB	13014001	4
Caelo	Hydrophilic ointment DAB	13014002	7
Caelo	Hydrophilic ointment DAB	13014003	5
Caelo	Hydrophilic ointment DAB	13014101	6
Caelo	Paraffin, white	13028302	1
Caelo	Paraffin, white	13031301	1
Caelo	Paraffin, white	13050102	1
Caelo	Paraffin, white	1305031-01	1
Caelo	Paraffin, white	130510	1
Caelo	Paraffin, white	13051305	1
Caelo	Paraffin, liquid	13052001	1
Caelo	Hydrophobic base gel DAC	13052002	1
Caelo	Emulsifying hydrophobic base…	13066802	10
Caelo	Wool alcohol ointment DAB	13066903	1
Caelo	Wool alcohol ointment DAB	13067101	1
Caelo	Wool alcohol ointment DAB	13067102	13
Caelo	Wool alcohol ointment DAB	13067103	7
Caelo	Wool alcohol ointment DAB	13067201	10
Caelo	Wool alcohol ointment SR wit…	13077301	1
Caelo	Wool alcohol ointment SR wit…	13077302	1
Caelo	Paraffin, white	13084902	14
Caelo	Paraffin, white	13084903	1
Caelo	Paraffin, white	13084905	13
Caelo	Paraffin, white	13084906	17
Caelo	Paraffin, white	13084907	1
Caelo	Hydrophobic base gel DAC	13085004	2
Caelo	Wool alcohol ointment DAB	13093202	1
Caelo	Paraffin, white	13095601	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, white	13095602	1
Caelo	Paraffin, white	13095701	5
Caelo	Paraffin, white	13109010	1
Caelo	Paraffin, white	1310909	1
Caelo	Paraffin, white	1310911	1
Caelo	Wool alcohol ointment DAB	13114001	8
Caelo	Wool alcohol ointment DAB	13114102	8
Caelo	Wool alcohol ointment DAB	13114103	4
Caelo	Hydrophilic ointment DAB	13117102	5
Caelo	Hydrophilic ointment DAB	13117103	3
Caelo	Hydrophilic ointment DAB	13117201	2
Caelo	Hydrophilic ointment DAB	13117301	21
Caelo	Hydrophilic ointment DAB	13117401	7
Caelo	Hydrophilic ointment DAB	13117501	13
Caelo	Hydrophilic ointment DAB	13117601	6
Caelo	Paraffin, white	13121303	1
Caelo	Hydrophilic ointment DAB	13123101	1
Caelo	Wool alcohol ointment DAB	13126001	10
Caelo	Wool alcohol ointment DAB	13126101	1
Caelo	Paraffin, white	13130901	5
Caelo	Paraffin, white	13130907	6
Caelo	Paraffin, white	13130909	16
Caelo	Paraffin, white	13130910	8
Caelo	Paraffin, white	13130911	7
Caelo	Paraffin, white	13130912	13
Caelo	Paraffin, white	13163602	2
Caelo	Paraffin, yellow	13163606	1
Caelo	Paraffin, white	13163701	6
Caelo	Paraffin, white	13163702	4
Caelo	Hydrophobic base gel DAC	13165201	4
Caelo	Hydrophobic base gel DAC	13165205	2
Caelo	Paraffin, white	13174901	1
Caelo	Emulsifying hydrophobic base...	13177601	6
Caelo	Emulsifying hydrophobic base...	13177602	1
Caelo	Paraffin, white	1318504	1
Caelo	Paraffin, white	13185501	1
Caelo	Paraffin, white	13185502	9
Caelo	Paraffin, white	13185504	4
Caelo	Paraffin, white	13185505	1
Caelo	Paraffin, white	13185506	5
Caelo	Paraffin, white	13185507	7
Caelo	Paraffin, white	13185512	10
Caelo	Paraffin, white	13185513	3
Caelo	Paraffin, white	13185514	2
Caelo	Unguentum Cordes®	131A043	1
Caelo	Paraffin, yellow	132(16096904)	1
Caelo	Wool alcohol ointment DAB	13242401	1
Caelo	Wool alcohol ointment DAB	13242601	11
Caelo	Wool alcohol ointment DAB	13242602	16
Caelo	Wool alcohol ointment DAB	13242603	5
Caelo	Wool alcohol ointment DAB	13242901	5
Caelo	Wool alcohol ointment DAB	13242902	7
Caelo	Hydrophilic ointment DAB	13245301	7
Caelo	Hydrophilic ointment DAB	13245302	5
Caelo	Hydrophilic ointment DAB	13245303	1
Caelo	Hydrophilic ointment DAB	13245401	12
Caelo	Hydrophilic ointment DAB	13245501	6
Caelo	Hydrophilic ointment DAB	13245601	9
Caelo	Hydrophilic ointment DAB	13245701	7
Caelo	Hydrophilic ointment DAB	13245801	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic ointment DAB	13245901	10
Caelo	Hydrophilic ointment DAB	13246002	3
Caelo	Wool alcohol ointment DAB	1324602	1
Caelo	Wool alcohol ointment DAB	13255001	9
Caelo	Wool alcohol ointment DAB	1325501	1
Caelo	Wool alcohol ointment DAB	13255101	25
Caelo	Wool alcohol ointment DAB	13255201	11
Caelo	Wool alcohol ointment SR wit...	13264102	2
Caelo	Paraffin, white	13268408	22
Caelo	Paraffin, white	13268409	13
Caelo	Paraffin, white	13268410	9
Caelo	Paraffin, white	13268411	7
Caelo	Paraffin, white	13268420	4
Caelo	Paraffin, white	13268421	16
Caelo	Paraffin, white	13268422	4
Caelo	Paraffin, white	13268423	5
Caelo	Hydrophobic base gel DAC	13295701	11
Caelo	Hydrophobic base gel DAC	13295801	4
Caelo	Hydrophobic base gel DAC	13299604	10
Caelo	Paraffin, yellow	133(16096910)	1
Caelo	Paraffin, white	13333101	1
Caelo	Paraffin, white	133380703	1
Caelo	Paraffin, white	13338702	6
Caelo	Paraffin, white	13338703	13
Caelo	Paraffin, white	13338704	3
Caelo	Paraffin, white	13338707	9
Caelo	Paraffin, white	13338710	13
Caelo	Paraffin, white	13338711	5
Caelo	Paraffin, white	13338712	7
Caelo	Paraffin, white	13338713	14
Caelo	Paraffin, white	13338714	7
Caelo	Wool alcohol ointment SR wit...	13340003	1
Caelo	Emulsifying hydrophobic base...	13340814	1
Caelo	Paraffin, white	13341602	4
Caelo	Paraffin, white	13341604	2
Caelo	Paraffin, white	13341605	7
Caelo	Paraffin, white	13341606	7
Caelo	Paraffin, white	13341608	8
Caelo	Paraffin, white	13341612	7
Caelo	Hydrophobic base gel DAC	13341701	2
Caelo	Hydrophobic base gel DAC	13341703	3
Caelo	Wool alcohol ointment DAB	13355202	1
Caelo	Emulsifying hydrophobic base...	13361004	7
Caelo	Paraffin, white	13365103	3
Caelo	Paraffin, white	13365104	4
Caelo	Paraffin, white	13380702	4
Caelo	Paraffin, white	13380703	14
Caelo	Paraffin, white	13380704	5
Caelo	Paraffin, white	13380706	3
Caelo	Paraffin, white	13380707	12
Caelo	Paraffin, white	13380708	12
Caelo	Paraffin, white	13380709	9
Caelo	Paraffin, white	13380719	8
Caelo	Paraffin, white	13380720	25
Caelo	Paraffin, white	13380721	16
Caelo	Paraffin, white	133807212	1
Caelo	Paraffin, white	1338714	1
Caelo	Paraffin, yellow	134(16096910)	1
Caelo	Wool alcohol ointment DAB	13554310	1
Caelo	Wool alcohol ointment DAB	1367101	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Unguentum Cordes®	13A004	1
Caelo	Unguentum Cordes®	13A042	2
Caelo	Unguentum Cordes®	13a043	1
Caelo	Unguentum Cordes®	13A043	1
Caelo	Unguentum Cordes®	13A049	1
Caelo	Unguentum Cordes®	13A055	1
Caelo	Unguentum Cordes®	13A090	2
Caelo	Unguentum Cordes®	13A113	1
Caelo	Unguentum Cordes®	13A136	1
Caelo	Unguentum Cordes®	13A138	3
Caelo	Unguentum Cordes®	13A141	1
Caelo	Unguentum Cordes®	13A153	2
Caelo	Unguentum Cordes®	13A157	2
Caelo	Unguentum Cordes®	13A159	1
Caelo	Unguentum Cordes®	13A171	2
Caelo	Unguentum Cordes®	13A172	1
Caelo	Unguentum Cordes®	13A181	3
Caelo	Unguentum Cordes®	13AO47	1
Caelo	Hydrophilic ointment DAB	13B04-T18-001061	2
Caelo	Paraffin, white	13D02-T02-002660	1
Caelo	Hydrophilic ointment DAB	13H13-T03-006141	1
Caelo	Paraffin, yellow	1401017-01	1
Caelo	Wool alcohol ointment DAB	14022902	1
Caelo	Hydrophilic ointment DAB	14024601	4
Caelo	Wool alcohol ointment DAB	14024701	15
Caelo	Hydrophilic ointment DAB	14024802	5
Caelo	Hydrophilic ointment DAB	14024803	3
Caelo	Hydrophilic ointment DAB	14024901	10
Caelo	Hydrophilic ointment DAB	14025001	7
Caelo	Paraffin, white	1402501	1
Caelo	Paraffin, white	14025101	4
Caelo	Paraffin, white	14025201	11
Caelo	Wool alcohol ointment SR wit…	14032501	1
Caelo	Wool alcohol ointment SR wit…	14032502	1
Caelo	Hydrophobic base gel DAC	14044601	13
Caelo	Wool alcohol ointment DAB	14067001	6
Caelo	Wool alcohol ointment DAB	14067002	5
Caelo	Wool alcohol ointment DAB	1406701	1
Caelo	Wool alcohol ointment DAB	14067101	5
Caelo	Wool alcohol ointment SR wit…	14067201	19
Caelo	Wool alcohol ointment DAB	14067301	1
Caelo	Wool alcohol ointment DAB	14067401	4
Caelo	Paraffin, white	14081205	1
Caelo	Hydrophilic ointment DAB	14085901	1
Caelo	Paraffin, white	14087402	5
Caelo	Paraffin, white	14087403	2
Caelo	Paraffin, white	14087404	12
Caelo	Paraffin, white	14087405	4
Caelo	Paraffin, white	14087406	2
Caelo	Paraffin, white	14087408	2
Caelo	Paraffin, white	14087409	3
Caelo	Paraffin, white	14087410	6
Caelo	Hydrophobic base gel DAC	14087501	10
Caelo	Hydrophobic base gel DAC	14087503	2
Caelo	Paraffin, white	14092015B	1
Caelo	Hydrophobic base gel DAC	14102502	5
Caelo	Hydrophobic base gel DAC	14102504	3
Caelo	Hydrophobic base gel DAC	14102505	2
Caelo	Hydrophilic ointment DAB	14123101	16
Caelo	Hydrophilic ointment DAB	14123201	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic ointment DAB	14123301	10
Caelo	Hydrophilic ointment DAB	14123401	12
Caelo	Hydrophilic ointment DAB	14123502	3
Caelo	Paraffin, white	14124702	1
Caelo	Paraffin, white	14124703	9
Caelo	Paraffin, white	14124704	12
Caelo	Paraffin, white	14124705	9
Caelo	Paraffin, white	14124706	10
Caelo	Paraffin, white	14124707	33
Caelo	Paraffin, white	14124708	11
Caelo	Eye paraffin	1412703	1
Caelo	Wool alcohol ointment DAB	14152803	1
Caelo	Wool alcohol ointment DAB	14152901	1
Caelo	Wool alcohol ointment DAB	14152902	1
Caelo	Wool alcohol ointment DAB	14153101	14
Caelo	Wool alcohol ointment DAB	14153601	13
Caelo	Wool alcohol ointment DAB	14153602	3
Caelo	Wool alcohol ointment DAB	14153603	9
Caelo	Hydrophobic base gel DAC	14158002	4
Caelo	Hydrophobic base gel DAC	14158003	10
Caelo	Hydrophobic base gel DAC	14158006	1
Caelo	Emulsifying hydrophobic base...	14161401	1
Caelo	Emulsifying hydrophobic base...	14161402	1
Caelo	Hydrophobic base gel DAC	14161501	14
Caelo	Paraffin, white	14189002	8
Caelo	Paraffin, white	14189003	2
Caelo	Paraffin, white	14189004	5
Caelo	Paraffin, white	14189005	1
Caelo	Paraffin, white	14189006	8
Caelo	Paraffin, white	14189007	8
Caelo	Paraffin, white	14189008	2
Caelo	Paraffin, white	14189012	2
Caelo	Paraffin, white	14189018	10
Caelo	Paraffin, white	14189019	1
Caelo	Unguentum Cordes®	1418E-02532	1
Caelo	Paraffin, white	14200901	4
Caelo	Paraffin, white	14201001	3
Caelo	Paraffin, white	14201003	1
Caelo	Wool alcohol ointment DAB	14207702	1
Caelo	Hydrophilic ointment DAB	14224701	4
Caelo	Hydrophilic ointment DAB	14224901	5
Caelo	Hydrophilic ointment DAB	14225001	9
Caelo	Hydrophilic ointment DAB	14225002	12
Caelo	Hydrophilic ointment DAB	1423101	1
Caelo	Hydrophilic ointment DAB	14231901	8
Caelo	Eye paraffin	1424704	1
Caelo	Paraffin, white	14248403	7
Caelo	Wool alcohol ointment SR wit...	14251402	1
Caelo	Emulsifying hydrophobic base...	14276301	6
Caelo	Hydrophobic base gel DAC	14276401	17
Caelo	Emulsifying hydrophobic base...	14276402	1
Caelo	Hydrophilic ointment DAB	14277601	9
Caelo	Hydrophilic ointment DAB	14277701	4
Caelo	Hydrophilic ointment DAB	14277801	8
Caelo	Hydrophilic ointment DAB	14277901	16
Caelo	Hydrophilic ointment DAB	14278002	2
Caelo	Hydrophilic ointment DAB	14278003	5
Caelo	Wool alcohol ointment DAB	14282801	11
Caelo	Wool alcohol ointment DAB	14282901	5
Caelo	Wool alcohol ointment DAB	14283001	15

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment DAB	14283101	4
Caelo	Wool alcohol ointment DAB	14283102	11
Caelo	Wool alcohol ointment DAB	14283103	14
Caelo	Wool alcohol ointment DAB	1428801	1
Caelo	Paraffin, white	14301804	23
Caelo	Paraffin, white	14301805	16
Caelo	Eye paraffin	14301806	1
Caelo	Wool alcohol ointment DAB	143020402	1
Caelo	Hydrophobic base gel DAC	14304603	3
Caelo	Hydrophobic base gel DAC	14304604	1
Caelo	Hydrophobic base gel DAC	14304624	1
Caelo	Paraffin, white	14324301	19
Caelo	Paraffin, white	14324402	2
Caelo	Paraffin, yellow	14324501	11
Caelo	Paraffin, white	14324601	7
Caelo	Paraffin, yellow	1432501	1
Caelo	Paraffin, white	14347302	10
Caelo	Paraffin, white	14355806	11
Caelo	Eye paraffin	14551510	1
Caelo	Wool alcohol ointment DAB	1483101	1
Caelo	Unguentum Cordes®	14A009	1
Caelo	Unguentum Cordes®	14A055	2
Caelo	Unguentum Cordes®	14A056	1
Caelo	Unguentum Cordes®	14A063	2
Caelo	Unguentum Cordes®	14A079	1
Caelo	Unguentum Cordes®	14A095	1
Caelo	Unguentum Cordes®	14A113	2
Caelo	Unguentum Cordes®	14A114	1
Caelo	Unguentum Cordes®	14A115	1
Caelo	Unguentum Cordes®	14A116	1
Caelo	Unguentum Cordes®	14A117	1
Caelo	Unguentum Cordes®	14A143	1
Caelo	Unguentum Cordes®	14A172	1
Caelo	Unguentum Cordes®	14A173	1
Caelo	Unguentum Cordes®	14A213	2
Caelo	Unguentum Cordes®	14A312	1
Caelo	Eye ointment, emulsifying DAC	14B101018	1
Caelo	Eye ointment, emulsifying DAC	14C030815	1
Caelo	Paraffin, white	14E30-T07-014286	1
Caelo	Paraffin, white	14J03-T03-020831	1
Caelo	Paraffin, white	14J03-Z03-020829	1
Caelo	Paraffin, white	150(17038202)	1
Caelo	Hydrophilic ointment DAB	15016501	1
Caelo	Hydrophilic ointment DAB	15016502	10
Caelo	Hydrophilic ointment DAB	15016503	4
Caelo	Hydrophilic ointment DAB	15016601	19
Caelo	Hydrophilic ointment DAB	15016602	3
Caelo	Hydrophilic ointment DAB	15016701	8
Caelo	Hydrophilic ointment DAB	15016801	11
Caelo	Hydrophilic ointment DAB	15016901	12
Caelo	Paraffin, yellow	1503036-01	1
Caelo	Paraffin, white	15031402	1
Caelo	Paraffin, white	15031806	1
Caelo	Wool alcohol ointment DAB	15034801	8
Caelo	Wool alcohol ointment DAB	15034901	5
Caelo	Wool alcohol ointment DAB	15035301	10
Caelo	Wool alcohol ointment DAB	15035501	6
Caelo	Wool alcohol ointment DAB	15035502	16
Caelo	Wool alcohol ointment DAB	15035503	3
Caelo	Paraffin, white	15041305	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic ointment DAB	15042014B	1
Caelo	Paraffin, white	1504304	1
Caelo	Wool alcohol ointment SR wit…	15047002	3
Caelo	Wool alcohol ointment SR wit…	15047003	2
Caelo	Wool alcohol ointment SR wit…	15047004	1
Caelo	Wool alcohol ointment SR wit…	15047101	8
Caelo	Paraffin, white	15050002	44
Caelo	Paraffin, white	15050003	18
Caelo	Paraffin, white	15050004	17
Caelo	Paraffin, white	15050005	11
Caelo	Eye paraffin	15050007	4
Caelo	Eye paraffin	1505002	2
Caelo	Eye paraffin	1505003	1
Caelo	Hydrophobic base gel DAC	15055701	1
Caelo	Hydrophobic base gel DAC	15055702	2
Caelo	Hydrophobic base gel DAC	15055705	6
Caelo	Hydrophilic ointment DAB	15056002	1
Caelo	Paraffin, white	15060003	13
Caelo	Paraffin, white	15060004	6
Caelo	Paraffin, white	15060005	10
Caelo	Paraffin, white	15060006	8
Caelo	Paraffin, white	15060007	3
Caelo	Paraffin, white	15060008	4
Caelo	Paraffin, white	15060011	2
Caelo	Paraffin, white	15060012	5
Caelo	Paraffin, white	15060013	5
Caelo	Paraffin, white	15060014	15
Caelo	Paraffin, white	1506005	1
Caelo	Paraffin, yellow	15063901	1
Caelo	Paraffin, yellow	15063902	5
Caelo	Paraffin, yellow	15063904	4
Caelo	Hydrophobic base gel DAC	15064001	5
Caelo	Hydrophobic base gel DAC	15064101	23
Caelo	Hydrophobic base gel DAC	15064201	5
Caelo	Paraffin, yellow	150717VF	1
Caelo	Paraffin, white	15081406	1
Caelo	Paraffin, white	1509019-01	1
Caelo	Hydrophilic ointment DAB	15097714	1
Caelo	Paraffin, white	151(17204209)	1
Caelo	Paraffin, white	15101308	1
Caelo	Hydrophilic ointment DAB	15113602	1
Caelo	Paraffin, white	15121407	1
Caelo	Hydrophobic base gel DAC	15149602	1
Caelo	Hydrophobic base gel DAC	15149603	3
Caelo	Hydrophobic base gel DAC	15149604	9
Caelo	Hydrophobic base gel DAC	15149605	3
Caelo	Eye paraffin	151509	1
Caelo	Paraffin, white	15162501	3
Caelo	Paraffin, white	15162503	8
Caelo	Paraffin, white	15162504	12
Caelo	Paraffin, white	15162505	14
Caelo	Paraffin, white	15162506	1
Caelo	Paraffin, white	15162507	12
Caelo	Paraffin, white	15162508	7
Caelo	Paraffin, white	15162512	7
Caelo	Paraffin, white	15162519	1
Caelo	Paraffin, white	152(17350004)	1
Caelo	Paraffin, white	15201301	1
Caelo	Paraffin, white	15201303	1
Caelo	Paraffin, white	15204301	12

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, white	15204302	12
Caelo	Paraffin, white	15204303	24
Caelo	Paraffin, white	15204304	6
Caelo	Hydrophobic base gel DAC	15205002	16
Caelo	Hydrophobic base gel DAC	15205101	3
Caelo	Emulsifying hydrophobic base...	15205102	1
Caelo	Paraffin, white	15219903	15
Caelo	Paraffin, yellow	15219904	1
Caelo	Hydrophilic ointment DAB	15221501	5
Caelo	Hydrophilic ointment DAB	15221601	18
Caelo	Hydrophilic ointment DAB	15221602	8
Caelo	Hydrophilic ointment DAB	15221701	30
Caelo	Hydrophilic ointment DAB	15221801	7
Caelo	Hydrophilic ointment DAB	15221901	3
Caelo	Hydrophilic ointment DAB	15221902	6
Caelo	Wool alcohol ointment DAB	15225401	4
Caelo	Wool alcohol ointment DAB	15225501	11
Caelo	Wool alcohol ointment DAB	15225601	16
Caelo	Wool alcohol ointment DAB	1522802	1
Caelo	Wool alcohol ointment DAB	15228201	9
Caelo	Wool alcohol ointment DAB	15228202	26
Caelo	Hydrophobic base gel DAC	15240801	7
Caelo	Hydrophobic base gel DAC	15240802	2
Caelo	Hydrophobic base gel DAC	15240805	12
Caelo	Hydrophobic base gel DAC	15240806	2
Caelo	Hydrophobic base gel DAC	15240807	3
Caelo	Emulsifying hydrophobic base...	15269102	1
Caelo	Hydrophobic base gel DAC	15269201	17
Caelo	Wool alcohol ointment SR wit...	15269302	2
Caelo	Wool alcohol ointment SR wit...	15269303	1
Caelo	Emulsifying hydrophobic base...	15276104	1
Caelo	Eye paraffin	152778809	1
Caelo	Eye paraffin	152788	2
Caelo	Eye paraffin	1527880	1
Caelo	Paraffin, white	15278801	27
Caelo	Eye paraffin	15278801/20160309/5	1
Caelo	Eye paraffin	15278802	2
Caelo	Eye paraffin	15278803	5
Caelo	Eye paraffin	15278803/170314VA	1
Caelo	Paraffin, white	15278804	24
Caelo	Paraffin, white	15278805	20
Caelo	Paraffin, white	15278808	9
Caelo	Paraffin, white	15278809	15
Caelo	Paraffin, white	153(17204201)	1
Caelo	Paraffin, white	15327602	1
Caelo	Paraffin, white	15330401	11
Caelo	Paraffin, yellow	15330402	4
Caelo	Paraffin, white	15330502	2
Caelo	Paraffin, white	15330601	16
Caelo	Emulsifying hydrophobic base...	15331101	2
Caelo	Hydrophobic base gel DAC	15331102	6
Caelo	Wool alcohol ointment SR wit...	15334702	1
Caelo	Wool alcohol ointment SR wit...	15334703	1
Caelo	Paraffin, white	15336808	4
Caelo	Paraffin, white	15336809	7
Caelo	Paraffin, white	15336810	4
Caelo	Paraffin, white	15339801	1
Caelo	Paraffin, white	15339805	3
Caelo	Paraffin, white	15339806	19
Caelo	Paraffin, white	15339807	18

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, white	15339808	17
Caelo	Paraffin, white	15349701	13
Caelo	Paraffin, white	15349702	14
Caelo	Paraffin, white	15349705	1
Caelo	Paraffin, white	15349706	5
Caelo	Paraffin, white	15349707	4
Caelo	Paraffin, white	15349708	15
Caelo	Paraffin, white	15349709	4
Caelo	Paraffin, white	15350017	1
Caelo	Paraffin, white	15355806	1
Caelo	Paraffin, white	15359105	9
Caelo	Wool alcohol ointment DAB	15361801	19
Caelo	Wool alcohol ointment DAB	15361901	14
Caelo	Wool alcohol ointment DAB	15362001	32
Caelo	Wool alcohol ointment DAB	15362002	13
Caelo	Wool alcohol ointment DAB	15362003	10
Caelo	Hydrophobic base gel DAC	15383005	1
Caelo	Paraffin, white	154(18174302)	1
Caelo	Hydrophilic ointment DAB	15400701	1
Caelo	Wool alcohol ointment DAB	154035502	1
Caelo	Wool alcohol ointment DAB	15407001	3
Caelo	Hydrophilic ointment DAB	15416401	17
Caelo	Hydrophilic ointment DAB	15416502	13
Caelo	Hydrophobic base gel DAC	15436102	8
Caelo	Hydrophobic base gel DAC	15436103	6
Caelo	Hydrophobic base gel DAC	15436105	3
Caelo	Hydrophobic base gel DAC	15436106	1
Caelo	Eye paraffin	1544111	1
Caelo	Eye paraffin	15441414	1
Caelo	Eye paraffin	154415	2
Caelo	Paraffin, white	1544150	1
Caelo	Paraffin, white	15441501	27
Caelo	Paraffin, white	15441502	35
Caelo	Paraffin, white	15441504	43
Caelo	Paraffin, white	15441505	35
Caelo	Paraffin, white	15441506	12
Caelo	Eye paraffin	15441508	1
Caelo	Paraffin, white	15441509	37
Caelo	Paraffin, white	15441510	36
Caelo	Paraffin, white	15441511	59
Caelo	Eye paraffin	15441513	1
Caelo	Paraffin, white	15441514	79
Caelo	Paraffin, white	15441515	7
Caelo	Paraffin, white	1544159	1
Caelo	Eye paraffin	1544514	2
Caelo	Paraffin, white	155(18174304)	1
Caelo	Paraffin, white	156(18174312)	1
Caelo	Paraffin, white	157(18314803)	1
Caelo	Eye paraffin	1578809	1
Caelo	Emulsifying hydrophobic base…	15964101	1
Caelo	Unguentum Cordes®	15a020	1
Caelo	Unguentum Cordes®	15A020	1
Caelo	Unguentum Cordes®	15A023	2
Caelo	Unguentum Cordes®	15A027	1
Caelo	Unguentum Cordes®	15A040	1
Caelo	Unguentum Cordes®	15A042	1
Caelo	Unguentum Cordes®	15A060	3
Caelo	Unguentum Cordes®	15A061	3
Caelo	Unguentum Cordes®	15A062	4
Caelo	Unguentum Cordes®	15a073	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Unguentum Cordes®	15A073	2
Caelo	Unguentum Cordes®	15A089	1
Caelo	Unguentum Cordes®	15A090	1
Caelo	Unguentum Cordes®	15A091	1
Caelo	Unguentum Cordes®	15A092	2
Caelo	Unguentum Cordes®	15A106	1
Caelo	Unguentum Cordes®	15A123	2
Caelo	Unguentum Cordes®	15a124	1
Caelo	Unguentum Cordes®	15A124	2
Caelo	Unguentum Cordes®	15A125	1
Caelo	Unguentum Cordes®	15A137	2
Caelo	Unguentum Cordes®	15A139	1
Caelo	Unguentum Cordes®	15A141	1
Caelo	Unguentum Cordes®	15a149	1
Caelo	Unguentum Cordes®	15A149	1
Caelo	Unguentum Cordes®	15A150	1
Caelo	Unguentum Cordes®	15A155	1
Caelo	Unguentum Cordes®	15A156	1
Caelo	Unguentum Cordes®	15A159	1
Caelo	Unguentum Cordes®	15A191	6
Caelo	Unguentum Cordes®	15A192	1
Caelo	Unguentum Cordes®	16/082/C	1
Caelo	Hydrophilic ointment DAB	16003101	1
Caelo	Wool alcohol ointment DAB	16007201	15
Caelo	Wool alcohol ointment DAB	16007202	13
Caelo	Wool alcohol ointment DAB	16007203	1
Caelo	Hydrophilic ointment DAB	16008701	25
Caelo	Hydrophilic ointment DAB	16008702	11
Caelo	Hydrophilic ointment DAB	16008901	8
Caelo	Hydrophilic ointment DAB	16009001	8
Caelo	Hydrophilic ointment DAB	16009101	30
Caelo	Hydrophilic ointment DAB	16009101-20160615Ma2	1
Caelo	Hydrophilic ointment DAB	16009101-20160615Ma3	1
Caelo	Hydrophilic ointment DAB	16009201	17
Caelo	Hydrophilic ointment DAB	16009202	1
Caelo	Hydrophilic ointment DAB	16009301	19
Caelo	Hydrophilic ointment DAB	16009401	10
Caelo	Paraffin, white	1602910	1
Caelo	Paraffin, white	16029208	1
Caelo	Paraffin, white	16029210	3
Caelo	Paraffin, white	16029211	16
Caelo	Paraffin, white	16029212	5
Caelo	Paraffin, white	16029213	5
Caelo	Paraffin, white	16029219	5
Caelo	Paraffin, white	16029220	9
Caelo	Paraffin, white	16029220/1170117	1
Caelo	Paraffin, white	16029221	7
Caelo	Paraffin, white	16029222	8
Caelo	Paraffin, yellow	16032502	3
Caelo	Paraffin, white	16032602	15
Caelo	Paraffin, yellow	16032603	5
Caelo	Hydrophilic ointment DAB	160408UE	1
Caelo	Eye paraffin	160427VA0	1
Caelo	Paraffin, white	1605019-01	1
Caelo	Hydrophobic base gel DAC	16054201	27
Caelo	Hydrophobic base gel DAC	16054302	10
Caelo	Paraffin, yellow	1606029	1
Caelo	Paraffin, yellow	1606029-01	1
Caelo	Paraffin, white	16061403	1
Caelo	Wool alcohol ointment DAB	16066401	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment DAB	16066501	10
Caelo	Wool alcohol ointment DAB	16066601	8
Caelo	Wool alcohol ointment DAB	16066701	5
Caelo	Wool alcohol ointment DAB	16066801	15
Caelo	Hydrophobic base gel DAC	160705	1
Caelo	Hydrophobic base gel DAC	1607050	1
Caelo	Hydrophobic base gel DAC	16070501	1
Caelo	Hydrophobic base gel DAC	16070502	5
Caelo	Hydrophobic base gel DAC	16070503	14
Caelo	Hydrophobic base gel DAC	16070505	6
Caelo	Paraffin, white	16071306	1
Caelo	Paraffin, white	16082701	2
Caelo	Wool alcohol ointment DAB	160905EA	1
Caelo	Paraffin, yellow	1609603	1
Caelo	Paraffin, yellow	16096903	10
Caelo	Paraffin, yellow	16096904	5
Caelo	Paraffin, yellow	16096905	2
Caelo	Paraffin, yellow	16096908	2
Caelo	Paraffin, yellow	16096910	1
Caelo	Paraffin, white	16096913	28
Caelo	Paraffin, white	1612007-01	3
Caelo	Eye paraffin	16121502	1
Caelo	Paraffin, white	161338003	1
Caelo	Paraffin, white	16138002	2
Caelo	Paraffin, white	16138003	22
Caelo	Paraffin, white	16138004	27
Caelo	Hydrophobic base gel DAC	16140606	1
Caelo	Wool alcohol ointment SR wit…	16142802	2
Caelo	Wool alcohol ointment SR wit…	16142803	1
Caelo	Hydrophilic ointment DAB	1614U2539	1
Caelo	Hydrophobic base gel DAC	16151101	7
Caelo	Hydrophobic base gel DAC	16151102	7
Caelo	Hydrophobic base gel DAC	16151105	13
Caelo	Hydrophobic base gel DAC	16151107	1
Caelo	Paraffin, yellow	161587801	1
Caelo	Paraffin, white	16161901	1
Caelo	Hydrophilic ointment DAB	16166701	26
Caelo	Hydrophilic ointment DAB	16166801	54
Caelo	Hydrophilic ointment DAB	16166802	2
Caelo	Hydrophilic ointment DAB	16166901	19
Caelo	Hydrophilic ointment DAB	16166902	26
Caelo	Hydrophilic ointment DAB	16167001	26
Caelo	Hydrophilic ointment DAB	1616801	1
Caelo	Hydrophilic ointment DAB	1617001	1
Caelo	Hydrophilic ointment DAB	1617102	2
Caelo	Hydrophobic base gel DAC	16172201	11
Caelo	Hydrophobic base gel DAC	16172301	17
Caelo	Hydrophobic base gel DAC	16172401	19
Caelo	Emulsifying hydrophobic base…	16172402	1
Caelo	Wool alcohol ointment DAB	16177603	1
Caelo	Paraffin, white	16181804	1
Caelo	Paraffin, white	16181901	6
Caelo	Paraffin, white	16181902	24
Caelo	Paraffin, white	16181903	20
Caelo	Paraffin, white	16181904	27
Caelo	Paraffin, white	16181907	8
Caelo	Paraffin, white	161819207	1
Caelo	Paraffin, yellow	1618701	1
Caelo	Paraffin, yellow	16187702	5
Caelo	Paraffin, yellow	16187801	8

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment DAB	16196401	1
Caelo	Wool alcohol ointment DAB	16198101	21
Caelo	Wool alcohol ointment DAB	16198301	5
Caelo	Wool alcohol ointment DAB	16198401	17
Caelo	Wool alcohol ointment DAB	16198501	26
Caelo	Wool alcohol ointment DAB	16198502	53
Caelo	Wool alcohol ointment DAB	16198503	8
Caelo	Wool alcohol ointment DAB	16198601	30
Caelo	Paraffin, white	16224704	1
Caelo	Emulsifying hydrophobic base...	16225902	2
Caelo	Hydrophobic base gel DAC	16226002	11
Caelo	Paraffin, white	16227401	2
Caelo	Paraffin, white	16227402	9
Caelo	Paraffin, white	16227403	8
Caelo	Paraffin, white	16227404	30
Caelo	Paraffin, white	16227405	13
Caelo	Paraffin, white	16227406	20
Caelo	Paraffin, white	16227411	9
Caelo	Paraffin, white	16227412	14
Caelo	Hydrophilic ointment DAB	1622801	1
Caelo	Paraffin, liquid	16238803	1
Caelo	Hydrophobic base gel DAC	16240104	6
Caelo	Hydrophobic base gel DAC	16240105	11
Caelo	Hydrophobic base gel DAC	16240107	9
Caelo	Hydrophobic base gel DAC	16240110	1
Caelo	Hydrophobic base gel DAC	16240111	6
Caelo	Hydrophobic base gel DAC	16240112	10
Caelo	Hydrophobic base gel DAC	16240114	10
Caelo	Paraffin, white	16241105	5
Caelo	Wool alcohol ointment DAB	16248802	3
Caelo	Wool alcohol ointment SR wit...	1625102	1
Caelo	Wool alcohol ointment SR wit...	16251301	2
Caelo	Wool alcohol ointment SR wit...	16251302	8
Caelo	Wool alcohol ointment SR wit...	16251303	2
Caelo	Paraffin, white	16271807	45
Caelo	Eye paraffin	16271808	5
Caelo	Paraffin, white	16271810	49
Caelo	Paraffin, white	16272001	1
Caelo	Paraffin, white	16272002	15
Caelo	Paraffin, white	16272003	13
Caelo	Paraffin, white	16272004	6
Caelo	Paraffin, white	16272008	2
Caelo	Paraffin, white	16272009	9
Caelo	Paraffin, white	16272010	16
Caelo	Paraffin, white	16272017	17
Caelo	Paraffin, white	16272018	3
Caelo	Paraffin, white	16272990	1
Caelo	Eye paraffin	1627810	1
Caelo	Paraffin, yellow	16281001	27
Caelo	Paraffin, yellow	16281002	4
Caelo	Paraffin, yellow	1628101	1
Caelo	Hydrophilic ointment DAB	16282401	23
Caelo	Hydrophilic ointment DAB	16282402	28
Caelo	Hydrophilic ointment DAB	16282403	1
Caelo	Hydrophilic ointment DAB	16282501	7
Caelo	Hydrophilic ointment DAB	16282702	6
Caelo	Hydrophilic ointment DAB	16282801	11
Caelo	Hydrophilic ointment DAB	1628401	1
Caelo	Hydrophilic ointment DAB	16288602	1
Caelo	Wool alcohol ointment DAB	16295101	16

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment DAB	16295102	5
Caelo	Wool alcohol ointment DAB	16298502	1
Caelo	Paraffin, white	163(192540001)	1
Caelo	Paraffin, white	16326702	58
Caelo	Paraffin, white	16326702-20170704Ma3	1
Caelo	Paraffin, white	16326707	4
Caelo	Wool alcohol ointment DAB	16331701	13
Caelo	Wool alcohol ointment DAB	16331702	33
Caelo	Wool alcohol ointment DAB	163317025398	1
Caelo	Wool alcohol ointment DAB	16331704	4
Caelo	Wool alcohol ointment DAB	16331801	3
Caelo	Wool alcohol ointment DAB	16331802	4
Caelo	Wool alcohol ointment DAB	16331901	20
Caelo	Paraffin, white	164(192540001)	1
Caelo	Paraffin, white	165(20000510007)	1
Caelo	Paraffin, white	166(20000510007)	1
Caelo	Paraffin, white	167(20000510013)	1
Caelo	Paraffin, white	1672017	1
Caelo	Hydrophilic ointment DAB	1682401	2
Caelo	Paraffin, white	16872018	1
Caelo	Unguentum Cordes®	16A010	1
Caelo	Unguentum Cordes®	16A013	1
Caelo	Unguentum Cordes®	16A022	1
Caelo	Unguentum Cordes®	16A045	1
Caelo	Unguentum Cordes®	16A047	1
Caelo	Unguentum Cordes®	16A048	1
Caelo	Unguentum Cordes®	16A051	2
Caelo	Unguentum Cordes®	16A058	5
Caelo	Unguentum Cordes®	16A072	1
Caelo	Unguentum Cordes®	16A073	1
Caelo	Unguentum Cordes®	16A077	1
Caelo	Unguentum Cordes®	16A083	3
Caelo	Unguentum Cordes®	16a085	1
Caelo	Unguentum Cordes®	16A085	5
Caelo	Unguentum Cordes®	16A099	5
Caelo	Unguentum Cordes®	16A101	1
Caelo	Unguentum Cordes®	16A102	7
Caelo	Unguentum Cordes®	16A119	1
Caelo	Unguentum Cordes®	16A122	4
Caelo	Unguentum Cordes®	16A123	2
Caelo	Unguentum Cordes®	16A137	3
Caelo	Unguentum Cordes®	16A139	1
Caelo	Unguentum Cordes®	16A140	3
Caelo	Unguentum Cordes®	16A141	1
Caelo	Unguentum Cordes®	16A142	4
Caelo	Unguentum Cordes®	16A143	1
Caelo	Unguentum Cordes®	16A144	4
Caelo	Unguentum Cordes®	16A153	4
Caelo	Unguentum Cordes®	16A173	1
Caelo	Unguentum Cordes®	16A176	3
Caelo	Unguentum Cordes®	16A183	3
Caelo	Unguentum Cordes®	16A184	8
Caelo	Unguentum Cordes®	16A210	2
Caelo	Unguentum Cordes®	16A239	1
Caelo	Unguentum Cordes®	16AO44	1
Caelo	Unguentum Cordes®	16AO74	1
Caelo	Hydrophilic ointment DAB	16k09-T02-038560	1
Caelo	Hydrophilic ointment DAB	16K09-T03-03854	1
Caelo	Paraffin, white	17000584	3
Caelo	Hydrophobic base gel DAC	17001133	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, white	17011309	1
Caelo	Eye paraffin	1702009	1
Caelo	Paraffin, white	170203VA/16181901	1
Caelo	Hydrophobic base gel DAC	17032102	2
Caelo	Hydrophobic base gel DAC	17032201	12
Caelo	Hydrophobic base gel DAC	17032303	32
Caelo	Paraffin, white	170350007	1
Caelo	Paraffin, white	17038201	5
Caelo	Paraffin, white	17038202	19
Caelo	Paraffin, white	17038203	19
Caelo	Paraffin, white	17038204	11
Caelo	Paraffin, white	170382045420	1
Caelo	Paraffin, white	17038206	1
Caelo	Paraffin, white	170382063	1
Caelo	Paraffin, white	17038212	21
Caelo	Paraffin, white	17038213	6
Caelo	Paraffin, white	17038215	5
Caelo	Paraffin, white	17038219	44
Caelo	Hydrophilic ointment DAB	17040201	32
Caelo	Hydrophilic ointment DAB	17040202	8
Caelo	Hydrophilic ointment DAB	1704021	1
Caelo	Hydrophilic ointment DAB	17040301	39
Caelo	Hydrophilic ointment DAB	17040315375	1
Caelo	Hydrophilic ointment DAB	17040501	15
Caelo	Hydrophilic ointment DAB	17040601	10
Caelo	Paraffin, white	1704209-1703824	1
Caelo	Hydrophobic base gel DAC	17043604	5
Caelo	Hydrophobic base gel DAC	17043605	11
Caelo	Hydrophobic base gel DAC	17043606	5
Caelo	Wool alcohol ointment DAB	1704903	1
Caelo	Paraffin, white	1705015-01	3
Caelo	Eye paraffin	17050212	1
Caelo	Eye paraffin	170520	1
Caelo	Paraffin, white	17052001	87
Caelo	Paraffin, white	17052002	1
Caelo	Paraffin, white	17052003	40
Caelo	Eye paraffin	17052005	1
Caelo	Eye paraffin	17052007	5
Caelo	Paraffin, white	17052008	26
Caelo	Paraffin, white	17052009	14
Caelo	Paraffin, white	17052010	103
Caelo	Eye paraffin	17052010P-190409-1	1
Caelo	Paraffin, white	17052012	58
Caelo	Eye paraffin	1705210	1
Caelo	Paraffin, yellow	17052401	28
Caelo	Paraffin, yellow	17052402	12
Caelo	Wool alcohol ointment DAB	170531811	1
Caelo	Paraffin, yellow	1705402	1
Caelo	Eye paraffin	170552003	1
Caelo	Hydrophilic ointment DAB	170614183	1
Caelo	Eye paraffin	17061704	1
Caelo	Hydrophilic ointment DAB	170683301	1
Caelo	Hydrophilic ointment DAB	1708002	1
Caelo	Paraffin, white	17081202	1
Caelo	Paraffin, yellow	17082015E	1
Caelo	Hydrophilic ointment DAB	17083002	51
Caelo	Hydrophilic ointment DAB	17083004	6
Caelo	Hydrophilic ointment DAB	17083102	4
Caelo	Hydrophilic ointment DAB	17083103	7
Caelo	Hydrophilic ointment DAB	17083201	14

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic ointment DAB	17083202	7
Caelo	Hydrophilic ointment DAB	17083301	15
Caelo	Hydrophilic ointment DAB	170905UE/16167001	1
Caelo	Hydrophilic ointment DAB	17093002	1
Caelo	Paraffin, white	17101410	1
Caelo	Wool alcohol ointment DAB	17104901	22
Caelo	Wool alcohol ointment DAB	17104902	34
Caelo	Wool alcohol ointment DAB	17104903	17
Caelo	Wool alcohol ointment SR wit...	17105001	30
Caelo	Wool alcohol ointment DAB	17105101	4
Caelo	Wool alcohol ointment DAB	17105401	34
Caelo	Wool alcohol ointment DAB	171054101	1
Caelo	Paraffin, white	17106001	23
Caelo	Paraffin, white	17106002	29
Caelo	Paraffin, white	17106004	12
Caelo	Paraffin, white	17106005	43
Caelo	Paraffin, white	17106008	3
Caelo	Paraffin, white	1710650	1
Caelo	Paraffin, white	171065005	1
Caelo	Paraffin, white	171114VA/16241105	1
Caelo	Paraffin, white	17111801	1
Caelo	Eye paraffin	17111804	1
Caelo	Eye paraffin	171123VPA/16271808	1
Caelo	Hydrophobic base gel DAC	17113702	25
Caelo	Hydrophobic base gel DAC	17113703	62
Caelo	Emulsifying hydrophobic base...	171137703	1
Caelo	Paraffin, white	1712008-01	2
Caelo	Paraffin, white	17121206	1
Caelo	Paraffin, yellow	17130401	1
Caelo	Paraffin, yellow	17130402	9
Caelo	Wool alcohol ointment SR/DAC	17133102	1
Caelo	Emulsifying hydrophobic base...	17133703	1
Caelo	Eye paraffin	171342007	5
Caelo	Eye paraffin	171342015	1
Caelo	Wool alcohol ointment DAB	17141201	5
Caelo	Wool alcohol ointment DAB	17141202	37
Caelo	Wool alcohol ointment DAB	17141203	58
Caelo	Wool alcohol ointment DAB	171412035537	1
Caelo	Wool alcohol ointment DAB	17141401	34
Caelo	Wool alcohol ointment DAB	17141404	1
Caelo	Wool alcohol ointment DAB	17141601	4
Caelo	Hydrophilic ointment DAB	17156302	4
Caelo	Hydrophilic ointment DAB	17156401	15
Caelo	Paraffin, yellow	17162901	1
Caelo	Paraffin, yellow	17162903	1
Caelo	Paraffin, yellow	17162904	6
Caelo	Paraffin, yellow	17162906	5
Caelo	Hydrophobic base gel DAC	1716707	1
Caelo	Unguentum Cordes®	1717004	1
Caelo	Hydrophilic ointment DAB	171855001	1
Caelo	Hydrophilic ointment DAB	17185501	37
Caelo	Hydrophilic ointment DAB	17185502	11
Caelo	Hydrophilic ointment DAB	17186601	1
Caelo	Hydrophobic base gel DAC	17196703	5
Caelo	Hydrophobic base gel DAC	17196704	24
Caelo	Hydrophobic base gel DAC	17196705	9
Caelo	Hydrophobic base gel DAC	17196706	2
Caelo	Hydrophobic base gel DAC	17196707	5
Caelo	Hydrophobic base gel DAC	17196708	1
Caelo	Hydrophobic base gel DAC	17196709	6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophobic base gel DAC	17196712	27
Caelo	Hydrophobic base gel DAC	17196713	5
Caelo	Hydrophobic base gel DAC	17196714	2
Caelo	Hydrophobic base gel DAC	17196715	3
Caelo	Emulsifying hydrophobic base...	17197901	1
Caelo	Paraffin, white	1720401	1
Caelo	Paraffin, white	1720420	1
Caelo	Paraffin, white	17204201	58
Caelo	Paraffin, white	17204203	4
Caelo	Paraffin, white	17204204	9
Caelo	Paraffin, white	17204207	11
Caelo	Paraffin, white	17204209	16
Caelo	Wool alcohol ointment DAB	17206001	30
Caelo	Wool alcohol ointment DAB	17206202	6
Caelo	Paraffin, yellow	17223102	19
Caelo	Paraffin, yellow	17223103	8
Caelo	Hydrophilic ointment DAB	17254501	1
Caelo	Unguentum Cordes®	17255301	1
Caelo	Wool alcohol ointment DAB	1726001	1
Caelo	Hydrophilic ointment DAB	17262701	1
Caelo	Hydrophilic ointment DAB	17290601	4
Caelo	Hydrophilic ointment DAB	17290603	10
Caelo	Hydrophilic ointment DAB	17290701	45
Caelo	Hydrophilic ointment DAB	17290702	35
Caelo	Hydrophilic ointment DAB	17290703	23
Caelo	Hydrophilic ointment DAB	17290801	35
Caelo	Paraffin, white	1730005	1
Caelo	Paraffin, yellow	173003501	1
Caelo	Wool alcohol ointment DAB	17300901	2
Caelo	Wool alcohol ointment DAB	17300902	25
Caelo	Wool alcohol ointment DAB	17301001	35
Caelo	Wool alcohol ointment DAB	17301101	29
Caelo	Paraffin, yellow	17303401	24
Caelo	Paraffin, white	17303501	48
Caelo	Paraffin, yellow	17303501P-180920-4	1
Caelo	Paraffin, yellow	17303503	4
Caelo	Wool alcohol ointment SR wit...	17319101	1
Caelo	Wool alcohol ointment SR wit...	17319102	2
Caelo	Eye paraffin	1732008	2
Caelo	Hydrophobic base gel DAC	17320408	3
Caelo	Hydrophobic base gel DAC	17320409	22
Caelo	Paraffin, liquid	17321503	1
Caelo	Paraffin, liquid	17321506	1
Caelo	Hydrophilic ointment DAB	17330202	6
Caelo	Hydrophilic ointment DAB	17330301	86
Caelo	Hydrophilic ointment DAB	17330301-H20190115Ma	1
Caelo	Hydrophilic ointment DAB	17330302	18
Caelo	Hydrophilic ointment DAB	17330303	7
Caelo	Hydrophilic ointment DAB	1733031	1
Caelo	Hydrophilic ointment DAB	17330401	13
Caelo	Hydrophilic ointment DAB	17330402	25
Caelo	Hydrophilic ointment DAB	17330501	33
Caelo	Hydrophilic ointment DAB	1733051	1
Caelo	Hydrophilic ointment DAB	17330601	24
Caelo	Hydrophilic ointment DAB	1733501	1
Caelo	Eye paraffin	173402016	1
Caelo	Eye paraffin	17342001	12
Caelo	Paraffin, white	17342005	22
Caelo	Eye paraffin	173420055675	1
Caelo	Paraffin, white	17342006	18

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Eye paraffin	17342007	26
Caelo	Paraffin, white	17342008	47
Caelo	Eye paraffin	17342009	1
Caelo	Eye paraffin	1734201	1
Caelo	Eye paraffin	17342013	4
Caelo	Eye paraffin	17342014	28
Caelo	Paraffin, white	17342015	35
Caelo	Paraffin, white	17342016	50
Caelo	Eye paraffin	17342016P-190718-4	1
Caelo	Eye paraffin	17345005	1
Caelo	Paraffin, white	17347003	1
Caelo	Paraffin, white	17347801	23
Caelo	Paraffin, white	17347802	26
Caelo	Paraffin, white	17347802-V20181115Ma	1
Caelo	Paraffin, white	17347803	1
Caelo	Paraffin, white	17347901	11
Caelo	Paraffin, white	17347901/2110418	1
Caelo	Paraffin, white	17347902	8
Caelo	Paraffin, white	17347903	15
Caelo	Paraffin, white	17350002	3
Caelo	Paraffin, white	17350003	2
Caelo	Paraffin, white	17350004	18
Caelo	Paraffin, white	17350005	11
Caelo	Paraffin, white	17350006	2
Caelo	Paraffin, white	17350007	6
Caelo	Paraffin, white	17350013	11
Caelo	Paraffin, white	17350014	19
Caelo	Paraffin, white	17350015	2
Caelo	Paraffin, white	17350016	24
Caelo	Paraffin, white	17350017	14
Caelo	Paraffin, white	17350018	5
Caelo	Paraffin, white	17350019	1
Caelo	Eye paraffin	17352016	1
Caelo	Wool alcohol ointment DAB	17411202	1
Caelo	Eye paraffin	17432008	1
Caelo	Paraffin, white	17560004	1
Caelo	Unguentum Cordes®	17A002	2
Caelo	Unguentum Cordes®	17A0025376	1
Caelo	Unguentum Cordes®	17A003	8
Caelo	Unguentum Cordes®	17a004	1
Caelo	Unguentum Cordes®	17A004	5
Caelo	Unguentum Cordes®	17a005	1
Caelo	Unguentum Cordes®	17A005	4
Caelo	Unguentum Cordes®	17A007	1
Caelo	Unguentum Cordes®	17A045	6
Caelo	Unguentum Cordes®	17A051	1
Caelo	Unguentum Cordes®	17A053	2
Caelo	Unguentum Cordes®	17A054	1
Caelo	Unguentum Cordes®	17a055	1
Caelo	Unguentum Cordes®	17A055	2
Caelo	Unguentum Cordes®	17A067	4
Caelo	Unguentum Cordes®	17A069	1
Caelo	Unguentum Cordes®	17A070	3
Caelo	Unguentum Cordes®	17a084	1
Caelo	Unguentum Cordes®	17A084	6
Caelo	Unguentum Cordes®	17a085	1
Caelo	Unguentum Cordes®	17A085	5
Caelo	Unguentum Cordes®	17a087	1
Caelo	Unguentum Cordes®	17A087	4
Caelo	Unguentum Cordes®	17A098	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Unguentum Cordes®	17A101	2
Caelo	Unguentum Cordes®	17A104	3
Caelo	Unguentum Cordes®	17A105	1
Caelo	Unguentum Cordes®	17A112	1
Caelo	Unguentum Cordes®	17A113	7
Caelo	Unguentum Cordes®	17A126	3
Caelo	Unguentum Cordes®	17A127	4
Caelo	Unguentum Cordes®	17A142	6
Caelo	Unguentum Cordes®	17A163	2
Caelo	Unguentum Cordes®	17A164	2
Caelo	Unguentum Cordes®	17A202	1
Caelo	Unguentum Cordes®	17A217	2
Caelo	Unguentum Cordes®	17AO85	1
Caelo	Hydrophilic ointment DAB	17E04-T08-044042	2
Caelo	Hydrophilic ointment DAB	17I11-T03-048188	3
Caelo	Hydrophobic base gel DAC	17L22-T02-054697	1
Caelo	Paraffin, white	17L22-T05-056478	1
Caelo	Paraffin, white	17L22-T05-056479	1
Caelo	Paraffin, white	18000101	3
Caelo	Wool alcohol ointment DAB	18001094	2
Caelo	Wool alcohol ointment DAB	18001095	1
Caelo	Hydrophobic base gel DAC	18001099	1
Caelo	Hydrophilic ointment DAB	18001503	1
Caelo	Paraffin, white	18002023	1
Caelo	Paraffin, white	18002117	2
Caelo	Hydrophobic base gel DAC	18003235	1
Caelo	Paraffin, white	18003484	3
Caelo	Hydrophobic base gel DAC	18004042	1
Caelo	Hydrophobic base gel DAC	18004043	1
Caelo	Hydrophilic ointment DAB	18004578	1
Caelo	Hydrophilic ointment DAB	18004580	1
Caelo	Paraffin, white	18005001	8
Caelo	Paraffin, white	18005004	1
Caelo	Paraffin, white	18005015	34
Caelo	Paraffin, white	18005016	20
Caelo	Paraffin, white	18005017	3
Caelo	Paraffin, white	18005023	33
Caelo	Paraffin, white	18005025	1
Caelo	Paraffin, white	18005029	5
Caelo	Paraffin, white	18005031	7
Caelo	Paraffin, white	18005033	34
Caelo	Paraffin, white	18005034	4
Caelo	Paraffin, white	18005039	16
Caelo	Paraffin, white	18005040	1
Caelo	Paraffin, white	1800505	1
Caelo	Wool alcohol ointment DAB	18005546	2
Caelo	Paraffin, white	18005698	9
Caelo	Paraffin, white	18006401	36
Caelo	Paraffin, white	18006402	2
Caelo	Paraffin, white	18006404	17
Caelo	Paraffin, white	18006406	19
Caelo	Paraffin, white	18006410	1
Caelo	Eye paraffin	180206AV/17052002	1
Caelo	Hydrophilic ointment DAB	180207501	1
Caelo	Hydrophilic ointment DAB	180207502	1
Caelo	Unguentum Cordes®	18025702	1
Caelo	Paraffin, white	1804011-01	1
Caelo	Paraffin, yellow	1804012-01	1
Caelo	Paraffin, white	18041315	1
Caelo	Paraffin, white	18041504	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment DAB	18066901	1
Caelo	Wool alcohol ointment SR wit…	18074502	8
Caelo	Hydrophobic base gel DAC	18075802	28
Caelo	Hydrophobic base gel DAC	18075803	55
Caelo	Emulsifying hydrophobic base…	18075804	1
Caelo	Paraffin, white	1808001-01	1
Caelo	Hydrophilic ointment DAB	180808183	1
Caelo	Paraffin, yellow	180912015	1
Caelo	Paraffin, yellow	18092001	4
Caelo	Paraffin, yellow	18092002	10
Caelo	Paraffin, yellow	18092006	1
Caelo	Paraffin, yellow	18092008	6
Caelo	Paraffin, yellow	18092010	3
Caelo	Paraffin, white	18092014	19
Caelo	Paraffin, yellow	18092015	6
Caelo	Paraffin, liquid	18110311	1
Caelo	Eye paraffin	18121707	1
Caelo	Wool alcohol ointment DAB	18132501	35
Caelo	Wool alcohol ointment DAB	18132603	36
Caelo	Wool alcohol ointment DAB	18132603-W20181115Ma	1
Caelo	Wool alcohol ointment DAB	18132604	21
Caelo	Wool alcohol ointment DAB	18132606	2
Caelo	Wool alcohol ointment DAB	181352501	1
Caelo	Hydrophobic base gel DAC	181400604	1
Caelo	Hydrophobic base gel DAC	18140603	5
Caelo	Hydrophobic base gel DAC	18140604	11
Caelo	Hydrophobic base gel DAC	18140605	11
Caelo	Hydrophobic base gel DAC	18140606	27
Caelo	Hydrophobic base gel DAC	18140607	12
Caelo	Paraffin, white	1814301	1
Caelo	Unguentum Cordes®	18167702	3
Caelo	Paraffin, white	18174301	17
Caelo	Paraffin, white	18174302	12
Caelo	Paraffin, white	18174303	11
Caelo	Paraffin, white	18174304	16
Caelo	Paraffin, white	18174305	2
Caelo	Paraffin, white	18174307	3
Caelo	Paraffin, white	18174310	1
Caelo	Paraffin, white	18174311	6
Caelo	Paraffin, white	18174312	30
Caelo	Paraffin, white	18174314	8
Caelo	Paraffin, white	18174317	4
Caelo	Paraffin, white	18174604	1
Caelo	Paraffin, liquid	18177001	2
Caelo	Paraffin, liquid	18177004	1
Caelo	Paraffin, liquid	18177007	3
Caelo	Paraffin, liquid	18177008	5
Caelo	Paraffin, liquid	181777004	1
Caelo	Eye paraffin	1817916	3
Caelo	Eye paraffin	1817917	1
Caelo	Paraffin, white	181797002	36
Caelo	Eye paraffin	181797003	3
Caelo	Eye paraffin	18179702	2
Caelo	Paraffin, white	18179703	27
Caelo	Paraffin, white	18179704	24
Caelo	Paraffin, white	18179716	93
Caelo	Paraffin, white	18179717	104
Caelo	Eye paraffin	18179718	9
Caelo	Eye paraffin	1817976	1
Caelo	Eye paraffin	18179797002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment SR wit…	18189901	2
Caelo	Wool alcohol ointment SR wit…	18189903	2
Caelo	Paraffin, yellow	18191503	23
Caelo	Paraffin, yellow	18191504	8
Caelo	Eye paraffin	1819717	1
Caelo	Hydrophilic ointment DAB	18207501	22
Caelo	Hydrophilic ointment DAB	18207502	41
Caelo	Hydrophilic ointment DAB	18207503	8
Caelo	Hydrophilic ointment DAB	18207601	1
Caelo	Hydrophilic ointment DAB	18207602	16
Caelo	Hydrophilic ointment DAB	182107602	1
Caelo	Hydrophobic base gel DAC	182280301	1
Caelo	Hydrophobic base gel DAC	18228301	22
Caelo	Hydrophobic base gel DAC	18240302	14
Caelo	Hydrophobic base gel DAC	18240304	4
Caelo	Hydrophobic base gel DAC	18240305	4
Caelo	Hydrophobic base gel DAC	18240305P-190909-4	1
Caelo	Hydrophobic base gel DAC	18240307	13
Caelo	Hydrophobic base gel DAC	18240308	10
Caelo	Hydrophobic base gel DAC	18242501	1
Caelo	Hydrophobic base gel DAC	18250301	10
Caelo	Wool alcohol ointment DAB	18250401	23
Caelo	Wool alcohol ointment DAB	18250402	40
Caelo	Wool alcohol ointment DAB	18250403	7
Caelo	Wool alcohol ointment DAB	18250421	1
Caelo	Wool alcohol ointment DAB	18250601	1
Caelo	Wool alcohol ointment DAB	18250701	17
Caelo	Wool alcohol ointment DAB	18250801	14
Caelo	Wool alcohol ointment DAB	18250901	18
Caelo	Wool alcohol ointment DAB	18251001	12
Caelo	Paraffin, white	18296802	32
Caelo	Hydrophilic ointment DAB	1830301	1
Caelo	Hydrophilic ointment DAB	18303301	8
Caelo	Hydrophilic ointment DAB	18303302	6
Caelo	Paraffin, white	18314801	7
Caelo	Paraffin, white	18314802	9
Caelo	Paraffin, white	18314803	19
Caelo	Paraffin, white	18314804	1
Caelo	Paraffin, white	18314809	53
Caelo	Paraffin, white	18314810	7
Caelo	Paraffin, white	18314811	15
Caelo	Paraffin, white	183148809	1
Caelo	Hydrophobic base gel DAC	18315801	26
Caelo	Emulsifying hydrophobic base…	18315802	3
Caelo	Wool alcohol ointment DAB	1832501	1
Caelo	Paraffin, white	1834809	1
Caelo	Wool alcohol ointment DAB	1841110	1
Caelo	Hydrophobic base gel DAC	184240307	1
Caelo	Eye paraffin	1879716	1
Caelo	Unguentum Cordes®	18A003	1
Caelo	Unguentum Cordes®	18A005	1
Caelo	Unguentum Cordes®	18A007	1
Caelo	Unguentum Cordes®	18A048	1
Caelo	Unguentum Cordes®	18A049	3
Caelo	Unguentum Cordes®	18A050	1
Caelo	Unguentum Cordes®	18A052	5
Caelo	Unguentum Cordes®	18A067	3
Caelo	Unguentum Cordes®	18A070	3
Caelo	Unguentum Cordes®	18A101	1
Caelo	Unguentum Cordes®	18A105	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Unguentum Cordes®	18A107	1
Caelo	Unguentum Cordes®	18A110	6
Caelo	Unguentum Cordes®	18A111	3
Caelo	Unguentum Cordes®	18A112	2
Caelo	Unguentum Cordes®	18A130	2
Caelo	Unguentum Cordes®	18a131	1
Caelo	Unguentum Cordes®	18A131	2
Caelo	Unguentum Cordes®	18A147	1
Caelo	Unguentum Cordes®	18A190	2
Caelo	Unguentum Cordes®	18A191	1
Caelo	Unguentum Cordes®	18A215	3
Caelo	Unguentum Cordes®	18A216	1
Caelo	Unguentum Cordes®	18A256P-191022-4	1
Caelo	Wool alcohol ointment DAB	18B09-T12-058739	1
Caelo	Hydrophobic base gel DAC	18K01-T05-062018	1
Caelo	Paraffin, liquid	19/1/3/3	1
Caelo	Eye paraffin	19/AKD13	1
Caelo	Eye paraffin	19/AKD2	1
Caelo	Eye paraffin	19/AKD7	1
Caelo	Hydrophilic ointment DAB	190000413001	1
Caelo	Wool alcohol ointment DAB	190000470001	1
Caelo	Hydrophilic ointment DAB	1900012001	1
Caelo	Hydrophilic ointment DAB	190004080001	1
Caelo	Hydrophilic ointment DAB	19000408001	25
Caelo	Hydrophilic ointment DAB	1900041001	1
Caelo	Hydrophilic ointment DAB	190004113001	1
Caelo	Hydrophilic ointment DAB	190004120002	1
Caelo	Hydrophilic ointment DAB	19000412001	34
Caelo	Hydrophilic ointment DAB	19000412002	16
Caelo	Hydrophilic ointment DAB	190004122002	1
Caelo	Hydrophilic ointment DAB	19000413001	65
Caelo	Hydrophilic ointment DAB	1900041301	1
Caelo	Wool alcohol ointment DAB	19000467001	4
Caelo	Wool alcohol ointment DAB	19000468001	16
Caelo	Wool alcohol ointment DAB	19000469001	11
Caelo	Wool alcohol ointment DAB	19000470001	16
Caelo	Wool alcohol ointment DAB	19000471001	12
Caelo	Wool alcohol ointment DAB	19000472001	41
Caelo	Wool alcohol ointment DAB	19000472002	57
Caelo	Wool alcohol ointment SR wit…	19000657002	4
Caelo	Wool alcohol ointment SR wit…	190006578002	1
Caelo	Wool alcohol ointment SR wit…	19000657800221222778001	1
Caelo	Abwaschbare Salbengrundlage …	19000678002	1
Caelo	Wool alcohol ointment DAB	19000766001	3
Caelo	Hydrophobic base gel DAC	19001130	1
Caelo	Hydrophilic ointment DAB	1900143001	1
Caelo	Paraffin, yellow	19001803	23
Caelo	Paraffin, yellow	19001803P-190926-6	1
Caelo	Paraffin, yellow	19001804	5
Caelo	Paraffin, liquid	1900303	1
Caelo	Wool alcohol ointment DAB	19003801	1
Caelo	Hydrophilic ointment DAB	1900412001	1
Caelo	Hydrophilic ointment DAB	1900413001	1
Caelo	Wool alcohol ointment SR wit…	19004202	2
Caelo	Wool alcohol ointment SR wit…	19004203	1
Caelo	Paraffin, white	19004888	1
Caelo	Wool alcohol ointment DAB	19005080	1
Caelo	Wool alcohol ointment DAB	19006204	15
Caelo	Wool alcohol ointment DAB	19006301	3
Caelo	Wool alcohol ointment DAB	19006302	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment DAB	19006902	5
Caelo	Wool alcohol ointment DAB	19007001	11
Caelo	Wool alcohol ointment DAB	19007101	19
Caelo	Wool alcohol ointment DAB	19007102	40
Caelo	Wool alcohol ointment DAB	190078103	1
Caelo	Paraffin, liquid	1901011-01	1
Caelo	Paraffin, liquid	19010301	1
Caelo	Paraffin, liquid	19010302	8
Caelo	Paraffin, liquid	19010303	21
Caelo	Paraffin, liquid	19010304	17
Caelo	Paraffin, liquid	19010305	1
Caelo	Paraffin, liquid	19010307	32
Caelo	Paraffin, liquid	19010308	1
Caelo	Paraffin, liquid	19010310	3
Caelo	Paraffin, liquid	19010313	26
Caelo	Paraffin, liquid	19010315	31
Caelo	Paraffin, liquid	19010316	23
Caelo	Paraffin, liquid	1901034	1
Caelo	Hydrophilic ointment DAB	19014801	1
Caelo	Hydrophobic base gel DAC	19021301	13
Caelo	Hydrophilic ointment DAB	19025401	39
Caelo	Hydrophilic ointment DAB	19025402	66
Caelo	Hydrophilic ointment DAB	19025701	6
Caelo	Hydrophilic ointment DAB	19025702	11
Caelo	Hydrophilic ointment DAB	19025801	27
Caelo	Hydrophobic base gel DAC	19031301	1
Caelo	Paraffin, liquid	1904026-01	1
Caelo	Wool alcohol ointment DAB	19041002	30
Caelo	Wool alcohol ointment DAB	19041003	1
Caelo	Wool alcohol ointment DAB	19041004	4
Caelo	Wool alcohol ointment DAB	19041101	35
Caelo	Wool alcohol ointment DAB	19041104	1
Caelo	Hydrophobic base gel DAC	19044902	11
Caelo	Hydrophobic base gel DAC	19044903	30
Caelo	Hydrophobic base gel DAC	19044904	2
Caelo	Hydrophobic base gel DAC	1904494	1
Caelo	Eye paraffin	19051504	1
Caelo	Paraffin, white	19060102	1
Caelo	Paraffin, white	19071401	1
Caelo	Paraffin, liquid	1909010-01	2
Caelo	Paraffin, white	19091308	1
Caelo	Hydrophobic base gel DAC	19101801	36
Caelo	Hydrophobic base gel DAC	19101802	14
Caelo	Paraffin, white	19101810	1
Caelo	Paraffin, white	19121801	1
Caelo	Hydrophobic base gel DAC	19123606	18
Caelo	Hydrophobic base gel DAC	19123607	18
Caelo	Hydrophobic base gel DAC	19123607P-191115-3	1
Caelo	Hydrophobic base gel DAC	19123609	2
Caelo	Paraffin, white	191254004	1
Caelo	Wool alcohol ointment DAB	1912M-01370	1
Caelo	Paraffin, white	191350404	1
Caelo	Paraffin, white	191354006	7
Caelo	Paraffin, white	19135402	5
Caelo	Paraffin, white	19135403	14
Caelo	Paraffin, white	19135404	22
Caelo	Paraffin, white	19135405	22
Caelo	Paraffin, white	19135406	21
Caelo	Paraffin, white	19135408	39
Caelo	Paraffin, white	19135410	16

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Unguentum Cordes®	19141001	3
Caelo	Paraffin, yellow	19156702	1
Caelo	Paraffin, yellow	19165701	22
Caelo	Paraffin, yellow	19165701P-200319-7	1
Caelo	Paraffin, yellow	19165702	14
Caelo	Paraffin, yellow	19165803	9
Caelo	Paraffin, yellow	19177601	1
Caelo	Wool alcohol ointment DAB	19181801	2
Caelo	Wool alcohol ointment DAB	19181901	18
Caelo	Wool alcohol ointment DAB	19181902	41
Caelo	Wool alcohol ointment DAB	19181903	1
Caelo	Wool alcohol ointment DAB	19182101	1
Caelo	Wool alcohol ointment DAB	19182103	1
Caelo	Wool alcohol ointment DAB	19182201	14
Caelo	Wool alcohol ointment DAB	19182301	10
Caelo	Wool alcohol ointment DAB	19182401	13
Caelo	Wool alcohol ointment SR wit…	19189902	2
Caelo	Wool alcohol ointment SR wit…	19189904	2
Caelo	Hydrophilic ointment DAB	191900601	1
Caelo	Hydrophilic ointment DAB	19190601	65
Caelo	Hydrophilic ointment DAB	19190701	27
Caelo	Hydrophilic ointment DAB	19190703	9
Caelo	Hydrophilic ointment DAB	19190801	15
Caelo	Hydrophilic ointment DAB	1919081	1
Caelo	Hydrophilic ointment DAB	19190901	20
Caelo	Hydrophilic ointment DAB	19191001	13
Caelo	Hydrophobic base gel DAC	19194701	9
Caelo	Hydrophobic base gel DAC	19194801	19
Caelo	Eye paraffin	192008002	14
Caelo	Paraffin, white	192008003	45
Caelo	Eye paraffin	19208002	1
Caelo	Wool alcohol ointment DAB	19209002	9
Caelo	Hydrophobic base gel DAC	1921539004	1
Caelo	Eye paraffin	1922008002	1
Caelo	Wool alcohol ointment SR wit…	19226402	7
Caelo	Paraffin, yellow	1923000002	1
Caelo	Paraffin, yellow	192300002	3
Caelo	Paraffin, yellow	192300004	15
Caelo	Unguentum Cordes®	19233702	3
Caelo	Paraffin, white	19240001	1
Caelo	Paraffin, liquid	19241401	1
Caelo	Hydrophobic base gel DAC	19244203	14
Caelo	Hydrophobic base gel DAC	19244301	22
Caelo	Paraffin, yellow	192497004	9
Caelo	Hydrophobic base gel DAC	19253004	1
Caelo	Hydrophobic base gel DAC	192539003	2
Caelo	Hydrophobic base gel DAC	192539004	28
Caelo	Hydrophobic base gel DAC	192539004P-200514-1	1
Caelo	Hydrophobic base gel DAC	192539004P-200602-5	1
Caelo	Hydrophobic base gel DAC	192539004P200622-1	1
Caelo	Hydrophobic base gel DAC	192539004P-200709-8	1
Caelo	Hydrophobic base gel DAC	192539005	13
Caelo	Hydrophobic base gel DAC	19253902	7
Caelo	Hydrophobic base gel DAC	19253903	9
Caelo	Hydrophobic base gel DAC	19253904	17
Caelo	Paraffin, white	192540001	81
Caelo	Paraffin, white	192540002	18
Caelo	Paraffin, white	192540003	1
Caelo	Paraffin, white	192540004	13
Caelo	Paraffin, white	19254001	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, white	19254002	1
Caelo	Paraffin, liquid	192559003	33
Caelo	Paraffin, liquid	1925590036	1
Caelo	Paraffin, liquid	192559004	61
Caelo	Paraffin, liquid	192559006	1
Caelo	Paraffin, liquid	192559007	33
Caelo	Paraffin, liquid	192559008	41
Caelo	Paraffin, liquid	192559011	25
Caelo	Paraffin, liquid	192559012	21
Caelo	Paraffin, liquid	192559033	1
Caelo	Hydrophilic ointment DAB	1925801	1
Caelo	Paraffin, liquid	19259007	1
Caelo	Paraffin, white	192601009	32
Caelo	Paraffin, white	19260102	28
Caelo	Paraffin, white	19260103	1
Caelo	Paraffin, white	19261009	1
Caelo	Paraffin, liquid	19271401	53
Caelo	Paraffin, liquid	19271402	18
Caelo	Paraffin, liquid	19271403	1
Caelo	Paraffin, liquid	192771402	1
Caelo	Hydrophilic ointment DAB	19288602	9
Caelo	Hydrophilic ointment DAB	19288801	22
Caelo	Hydrophilic ointment DAB	1928881	1
Caelo	Paraffin, white	19314809	1
Caelo	Unguentum Cordes®	19A003	1
Caelo	Unguentum Cordes®	19A008	1
Caelo	Unguentum Cordes®	19A0154	1
Caelo	Unguentum Cordes®	19A0182	1
Caelo	Unguentum Cordes®	19A112	1
Caelo	Paraffin, yellow	200000003003	1
Caelo	Paraffin, yellow	20000002001	9
Caelo	Paraffin, yellow	20000002001/13042101	1
Caelo	Paraffin, white	20000003003	21
Caelo	Paraffin, yellow	20000003004	4
Caelo	Paraffin, yellow	2000003004	1
Caelo	Paraffin, white	200000510007	1
Caelo	Eye paraffin	200000627005	1
Caelo	Hydrophobic base gel DAC	200001559014	1
Caelo	Emulsifying hydrophobic base…	200002020002	1
Caelo	Hydrophobic base gel DAC	200002200002	1
Caelo	Hydrophobic base gel DAC	20000220002	21
Caelo	Paraffin, white	200002327003	3
Caelo	Paraffin, liquid	200002999003	1
Caelo	Eye paraffin	20000327005	1
Caelo	Wool alcohol ointment DAB	20000381	1
Caelo	Paraffin, liquid	200004108001	1
Caelo	Paraffin, liquid	200004108006	1
Caelo	Paraffin, white	20000510003	10
Caelo	Paraffin, white	20000510006	5
Caelo	Paraffin, white	20000510007	20
Caelo	Paraffin, white	20000510009	4
Caelo	Paraffin, white	20000510011	1
Caelo	Paraffin, white	20000510012	1
Caelo	Paraffin, white	20000510013	22
Caelo	Paraffin, white	20000510014	8
Caelo	Paraffin, white	2000051003	2
Caelo	Paraffin, white	2000051007	1
Caelo	Paraffin, white	2000051009	1
Caelo	Paraffin, white	20000627002	59
Caelo	Eye paraffin	20000627003	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, white	20000627005	45
Caelo	Eye paraffin	20000627009	5
Caelo	Eye paraffin	20000627010	45
Caelo	Eye paraffin	20000627022	1
Caelo	Eye paraffin	2000062705	1
Caelo	Paraffin, white	20000792001	1
Caelo	Hydrophobic base gel DAC	20000848001	29
Caelo	Emulsifying hydrophobic base...	20000849002	1
Caelo	Emulsifying hydrophobic base...	20000850001	5
Caelo	Paraffin, white	200011	1
Caelo	Paraffin, white	2000112002	2
Caelo	Paraffin, white	20001122001	20
Caelo	Paraffin, white	20001122002	1
Caelo	Unguentum Cordes®	20001329001	3
Caelo	Hydrophobic base gel DAC	20001559002	1
Caelo	Hydrophobic base gel DAC	20001559003	9
Caelo	Hydrophobic base gel DAC	20001559004	3
Caelo	Hydrophobic base gel DAC	20001559006	8
Caelo	Hydrophobic base gel DAC	20001559007	1
Caelo	Hydrophobic base gel DAC	20001559008	5
Caelo	Hydrophobic base gel DAC	20001559010	1
Caelo	Hydrophobic base gel DAC	20001559012	4
Caelo	Hydrophobic base gel DAC	20001559015	14
Caelo	Hydrophobic base gel DAC	20001559017	6
Caelo	Hydrophobic base gel DAC	20001587001	10
Caelo	Emulsifying hydrophobic base...	20001587002	1
Caelo	Emulsifying hydrophobic base...	20001588001	1
Caelo	Hydrophobic base gel DAC	20001588002	8
Caelo	Abwaschbare Salbengrundlage ...	20001666002	1
Caelo	Paraffin, yellow	20001759001	12
Caelo	Paraffin, yellow	20001760001	1
Caelo	Paraffin, yellow	20001760002	19
Caelo	Wool alcohol ointment DAB	20001899002	1
Caelo	Wool alcohol ointment DAB	20001900001	2
Caelo	Wool alcohol ointment DAB	20001901001	40
Caelo	Wool alcohol ointment DAB	20001901002	24
Caelo	Wool alcohol ointment DAB	20001902002	1
Caelo	Hydrophilic ointment DAB	20001982001	1
Caelo	Hydrophilic ointment DAB	20001982002	3
Caelo	Hydrophilic ointment DAB	20002047001	22
Caelo	Hydrophilic ointment DAB	200020470010	1
Caelo	Hydrophilic ointment DAB	20002047002	23
Caelo	Wool alcohol ointment SR wit...	20002124002	1
Caelo	Hydrophobic base gel DAC	2000220002	1
Caelo	Paraffin, white	20002327003	16
Caelo	Paraffin, white	20002327004	1
Caelo	Paraffin, yellow	20002456001	8
Caelo	Hydrophilic ointment DAB	20002928001	12
Caelo	Hydrophilic ointment DAB	20002929001	10
Caelo	Hydrophilic ointment DAB	20002930002	8
Caelo	Hydrophilic ointment DAB	20002930003	1
Caelo	Hydrophilic ointment DAB	20002930004	9
Caelo	Hydrophilic ointment DAB	2000293004	1
Caelo	Paraffin, liquid	2000299003	2
Caelo	Paraffin, liquid	2000299004	2
Caelo	Paraffin, liquid	20002999003	43
Caelo	Paraffin, liquid	20002999004	12
Caelo	Paraffin, liquid	2000299904	2
Caelo	Hydrophobic base gel DAC	20003042003	8
Caelo	Hydrophobic base gel DAC	20003042005	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment DAB	20003084001	10
Caelo	Wool alcohol ointment DAB	20003085002	6
Caelo	Wool alcohol ointment DAB	20003085003	10
Caelo	Wool alcohol ointment DAB	20003085004	4
Caelo	Paraffin, white	20003237001	27
Caelo	Wool alcohol ointment SR wit...	20003440002	1
Caelo	Eye paraffin	2000344002	1
Caelo	Eye paraffin	20003442002	14
Caelo	Hydrophobic base gel DAC	20003511001	11
Caelo	Hydrophobic base gel DAC	20003511002	6
Caelo	Wool alcohol ointment DAB	20003637001	1
Caelo	Wool alcohol ointment DAB	20003637002	1
Caelo	Wool alcohol ointment DAB	20003638002	10
Caelo	Wool alcohol ointment DAB	20003638003	1
Caelo	Wool alcohol ointment DAB	20003638004	11
Caelo	Wool alcohol ointment DAB	200036446001	1
Caelo	Wool alcohol ointment DAB	20003646001	8
Caelo	Emulsifying hydrophobic base...	20003772003	1
Caelo	Hydrophobic base gel DAC	20003953001	6
Caelo	Hydrophobic base gel DAC	20003953002	2
Caelo	Hydrophobic base gel DAC	20003953003	7
Caelo	Hydrophobic base gel DAC	20003953007	1
Caelo	Hydrophobic base gel DAC	20003953011	6
Caelo	Hydrophobic base gel DAC	20003953012	3
Caelo	Paraffin, liquid	20004015003	1
Caelo	Paraffin, liquid	20004108001	37
Caelo	Paraffin, liquid	20004108002	18
Caelo	Paraffin, liquid	20004108006	23
Caelo	Paraffin, liquid	20004108007	4
Caelo	Paraffin, liquid	20004108008	18
Caelo	Paraffin, liquid	20004108011	27
Caelo	Paraffin, liquid	20004108012	1
Caelo	Paraffin, liquid	2000418008	1
Caelo	Paraffin, white	2000510003	1
Caelo	Paraffin, white	2000510009	1
Caelo	Paraffin, white	2000510013	1
Caelo	Paraffin, white	2000510014	1
Caelo	Hydrophobic base gel DAC	2000559012	1
Caelo	Eye paraffin	2000627010	2
Caelo	Paraffin, liquid	2000999003	1
Caelo	Wool alcohol ointment DAB	2001901001	2
Caelo	Paraffin, white	2002327003	1
Caelo	Hydrophilic ointment DAB	2002930002	1
Caelo	Paraffin, liquid	200299004	1
Caelo	Paraffin, liquid	2002999004	1
Caelo	Paraffin, white	20031303	1
Caelo	Paraffin, white	20031518	1
Caelo	Paraffin, liquid	2004108001	1
Caelo	Paraffin, liquid	2004108011	1
Caelo	Wool alcohol ointment DAB	20061204	1
Caelo	Paraffin, white	20061206	1
Caelo	Paraffin, white	20061503	1
Caelo	Paraffin, liquid	2007019-01	1
Caelo	Paraffin, white	20071505	1
Caelo	Emulsifying hydrophobic base...	20081302	1
Caelo	Paraffin, white	20081304	1
Caelo	Hydrophobic base gel DAC	200832508	1
Caelo	Eye paraffin	20101401	1
Caelo	Eye paraffin	2015A-02550	1
Caelo	Paraffin, white	20160812-4	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, white	2016E-07061	1
Caelo	Emulsifying hydrophobic base...	2018-J-03579	1
Caelo	Paraffin, white	2021901	1
Caelo	Hydrophilic ointment DAB	20221110-1	1
Caelo	Wool alcohol ointment DAB	20271211-1	1
Caelo	Paraffin, white	2061201	1
Caelo	Unguentum Cordes®	20A0084	1
Caelo	Unguentum Cordes®	20A0131	1
Caelo	Unguentum Cordes®	20A0153	1
Caelo	Hydrophilic ointment DAB	2100000363001	1
Caelo	Hydrophilic ointment DAB	210000362001	1
Caelo	Wool alcohol ointment DAB	210001941001	1
Caelo	Paraffin, liquid	210002861002	2
Caelo	Paraffin, white	21000297004	2
Caelo	Paraffin, white	21000297006	1
Caelo	Paraffin, white	21000297007	28
Caelo	Paraffin, white	21000297008	7
Caelo	Paraffin, white	21000297009	1
Caelo	Paraffin, white	2100029707	1
Caelo	Paraffin, yellow	21000360004	1
Caelo	Hydrophilic ointment DAB	2100036001	2
Caelo	Hydrophilic ointment DAB	21000361001	7
Caelo	Hydrophilic ointment DAB	21000362001	12
Caelo	Hydrophilic ointment DAB	21000363001	9
Caelo	Hydrophilic ointment DAB	21000365001	9
Caelo	Hydrophilic ointment DAB	21000365002	6
Caelo	Paraffin, yellow	21000380002	4
Caelo	Paraffin, yellow	21000380011	1
Caelo	Paraffin, white	21000381002	6
Caelo	Paraffin, white	21000381003	6
Caelo	Hydrophobic base gel DAC	21000556001	5
Caelo	Emulsifying hydrophobic base...	21000557002	4
Caelo	Wool alcohol ointment SR wit...	21000778001	2
Caelo	Wool alcohol ointment SR wit...	21000778002	1
Caelo	Abwaschbare Salbengrundlage ...	21000937001	1
Caelo	Wool alcohol ointment DAB	21000939002	7
Caelo	Wool alcohol ointment DAB	21000940002	1
Caelo	Wool alcohol ointment DAB	21000940003	2
Caelo	Wool alcohol ointment DAB	21000941001	24
Caelo	Wool alcohol ointment DAB	21000941002	3
Caelo	Wool alcohol ointment DAB	21000941003	4
Caelo	Wool alcohol ointment DAB	21000942001	4
Caelo	Paraffin, white	2100097004	1
Caelo	Wool alcohol ointment DAB	2100124003	1
Caelo	Wool alcohol ointment DAB	21001242003	2
Caelo	Hydrophobic base gel DAC	21001323002	4
Caelo	Hydrophilic ointment DAB	2100143002	1
Caelo	Abwaschbare Salbengrundlage ...	21001433003	2
Caelo	Hydrophilic ointment DAB	21001473001	1
Caelo	Hydrophilic ointment DAB	21001473002	2
Caelo	Hydrophilic ointment DAB	21001473003	1
Caelo	Hydrophilic ointment DAB	21001474001	3
Caelo	Paraffin, white	21001517002	8
Caelo	Hydrophobic base gel DAC	21001592001	2
Caelo	Hydrophobic base gel DAC	21001592002	12
Caelo	Hydrophobic base gel DAC	21001592007	1
Caelo	Hydrophobic base gel DAC	21001592008	3
Caelo	Hydrophobic base gel DAC	21001592011	1
Caelo	Hydrophobic base gel DAC	21001592012	6
Caelo	Abwaschbare Salbengrundlage ...	2100194002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol ointment DAB	21001946002	3
Caelo	Wool alcohol ointment DAB	21001946003	2
Caelo	Eye paraffin	21001962001	1
Caelo	Paraffin, white	21001982001	26
Caelo	Eye paraffin	21001982003	7
Caelo	Eye paraffin	21001982005	4
Caelo	Paraffin, white	21002101004	5
Caelo	Paraffin, white	21002101005	6
Caelo	Paraffin, white	21002101007	1
Caelo	Paraffin, white	21002101010	3
Caelo	Paraffin, white	21002101013	1
Caelo	Paraffin, white	21002101018	2
Caelo	Hydrophobic base gel DAC	21002112001	7
Caelo	Hydrophobic base gel DAC	21002113001	4
Caelo	Abwaschbare Salbengrundlage ...	21002194002	1
Caelo	Paraffin, white	21002643004	1
Caelo	Paraffin, liquid	21002861001	9
Caelo	Paraffin, liquid	21002861002	7
Caelo	Paraffin, liquid	21002861005	1
Caelo	Paraffin, liquid	21002861007	1
Caelo	Hydrophilic ointment DAB	21003015003	2
Caelo	Hydrophilic ointment DAB	21003016001	6
Caelo	Hydrophilic ointment DAB	21003016003	3
Caelo	Hydrophobic base gel DAC	21003145002	2
Caelo	Wool alcohol ointment DAB	21003589001	4
Caelo	Wool alcohol ointment DAB	21003590002	1
Caelo	Wool alcohol ointment DAB	21003591002	4
Caelo	Wool alcohol ointment DAB	21003591003	2
Caelo	Hydrophilic ointment DAB	2100361001	2
Caelo	Abwaschbare Salbengrundlage ...	21003701002	1
Caelo	Paraffin, yellow	2100380009	1
Caelo	Eye paraffin	21003851002	1
Caelo	Hydrophilic ointment DAB	21004065001	1
Caelo	Hydrophilic ointment DAB	21004067003	1
Caelo	Paraffin, white	21004079002	1
Caelo	Hydrophobic base gel DAC	21004115004	1
Caelo	Hydrophobic base gel DAC	21004115008	1
Caelo	Emulsifying hydrophobic base...	2100556001	1
Caelo	Paraffin, white	2101013-01	1
Caelo	Paraffin, white	21031701	1
Caelo	Paraffin, white	21051509	1
Caelo	Wool alcohol ointment DAB	21051510	1
Caelo	Paraffin, white	210907(20000510013)	1
Caelo	Hydrophilic ointment DAB	2109212539	1
Caelo	Paraffin, white	21101306	1
Caelo	Paraffin, white	211102(21000297007)	1
Caelo	Paraffin, liquid	21215200041081	1
Caelo	Paraffin, white	2121704	1
Caelo	Paraffin, liquid	2125200041081	1
Caelo	Paraffin, white	213E-02549	1
Caelo	Unguentum Cordes®	21A0150	2
Caelo	Unguentum Cordes®	21A0201	1
Caelo	Emulsifying hydrophobic base...	22000134002	2
Caelo	Hydrophobic base gel DAC	22000134003	1
Caelo	Wool alcohol ointment DAB	22000242002	1
Caelo	Paraffin, white	22011401	1
Caelo	Paraffin, white	22011510	1
Caelo	Paraffin, white	220127(21000297007)	1
Caelo	Wool alcohol ointment DAB	220728(22000243001)	1
Caelo	Paraffin, white	22081206	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, white	22091803	1
Caelo	Paraffin, yellow	22091804	1
Caelo	Paraffin, liquid	221019	1
Caelo	Paraffin, white	22111306	1
Caelo	Paraffin, white	22111401	1
Caelo	Wool alcohol ointment DAB	22412510	1
Caelo	Wool alcohol ointment DAB	22532810	1
Caelo	Wool alcohol ointment DAB	23023210	1
Caelo	Paraffin, white	23051101	1
Caelo	Paraffin, white	23051404	1
Caelo	Eye paraffin	23051817	1
Caelo	Eye paraffin	23061813	1
Caelo	Paraffin, white	23071202	1
Caelo	Paraffin, white	23101702	1
Caelo	Paraffin, white	23121701	1
Caelo	Wool alcohol ointment DAB	2313E-01370	1
Caelo	Hydrophilic ointment DAB	24011315	1
Caelo	Eye paraffin	24031503	1
Caelo	Wool alcohol ointment DAB	24233910	1
Caelo	Wool alcohol ointment DAB	24243910	1
Caelo	Wool alcohol ointment DAB	24655410	1
Caelo	Eye paraffin	250000627009	1
Caelo	Paraffin, white	25021403	1
Caelo	Paraffin, white	250414002	1
Caelo	Wool alcohol ointment DAB	25051306	1
Caelo	Hydrophilic ointment DAB	25051307	1
Caelo	Paraffin, white	25051801	1
Caelo	Paraffin, white	25112014A	1
Caelo	Wool alcohol ointment DAB	259166	1
Caelo	Paraffin, white	26011805	1
Caelo	Paraffin, white	26041702	1
Caelo	Paraffin, yellow	26051810	1
Caelo	Paraffin, white	26061307	1
Caelo	Paraffin, white	26081409	1
Caelo	Paraffin, white	26081705	1
Caelo	Paraffin, white	26091303	1
Caelo	Paraffin, white	26091406	1
Caelo	Paraffin, white	26101202	1
Caelo	Paraffin, white	26111203	1
Caelo	Paraffin, white	27021402	1
Caelo	Paraffin, white	27061301	1
Caelo	Paraffin, white	27061401	1
Caelo	Paraffin, white	27091205	1
Caelo	Wool alcohol ointment DAB	27101806	1
Caelo	Paraffin, white	27121304	1
Caelo	Hydrophilic ointment DAB	27121301	1
Caelo	Paraffin, yellow	2717M-02551	1
Caelo	Eye paraffin	2752	1
Caelo	Paraffin, white	276127	1
Caelo	Eye paraffin	2791	1
Caelo	Hydrophilic ointment DAB	2803212539	1
Caelo	Paraffin, white	28041508	1
Caelo	Emulsifying hydrophobic base…	28051301	1
Caelo	Paraffin, white	280702	1
Caelo	Paraffin, yellow	28071509	1
Caelo	Paraffin, white	28071709	1
Caelo	Hydrophilic ointment DAB	2810	1
Caelo	Wool alcohol ointment DAB	28101703	1
Caelo	Hydrophilic ointment DAB	281347	2
Caelo	Hydrophilic ointment DAB	281349	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic ointment DAB	281351	1
Caelo	Hydrophobic base gel DAC	282094	2
Caelo	Wool alcohol ointment DAB	2823	1
Caelo	Hydrophobic base gel DAC	2825	1
Caelo	Paraffin, white	282700	1
Caelo	Paraffin, white	282964	1
Caelo	Paraffin, white	283949	1
Caelo	Wool alcohol ointment DAB	2851610	1
Caelo	Hydrophobic base gel DAC	286013	3
Caelo	Paraffin, white	286095	1
Caelo	Hydrophilic ointment DAB	286545	1
Caelo	Wool alcohol ointment DAB	286882	1
Caelo	Paraffin, white	2895	1
Caelo	Paraffin, white	290441	2
Caelo	Paraffin, white	29051201	1
Caelo	Paraffin, white	29061803	1
Caelo	Eye paraffin	29101401	1
Caelo	Wool alcohol ointment DAB	291175	1
Caelo	Eye paraffin	2918E-02550	1
Caelo	Paraffin, white	292220	1
Caelo	Wool alcohol ointment DAB	293091	1
Caelo	Wool alcohol ointment DAB	293093	1
Caelo	Hydrophilic ointment DAB	294449	2
Caelo	Paraffin, white	2948852	1
Caelo	Paraffin, white	295300	1
Caelo	Paraffin, white	295301	1
Caelo	Hydrophilic ointment DAB	296865	1
Caelo	Paraffin, white	297283	1
Caelo	Wool alcohol ointment DAB	298578	1
Caelo	Hydrophilic ointment DAB	299392	1
Caelo	Paraffin, white	299469	1
Caelo	Paraffin, white	30012014F	1
Caelo	Wool alcohol ointment DAB	300283	1
Caelo	Emulsifying hydrophobic base...	30071201	1
Caelo	Paraffin, white	30081813	1
Caelo	Paraffin, white	30091701	1
Caelo	Paraffin, white	3009191	1
Caelo	Hydrophilic ointment DAB	301097	1
Caelo	Wool alcohol ointment DAB	30111302	1
Caelo	Paraffin, white	30121427	1
Caelo	Paraffin, white	301424	1
Caelo	Paraffin, yellow	3018E-02551	2
Caelo	Paraffin, white	302037	4
Caelo	Hydrophobic base gel DAC	302142	1
Caelo	Hydrophobic base gel DAC	302145	3
Caelo	Wool alcohol ointment DAB	302206	1
Caelo	Wool alcohol ointment DAB	302207	2
Caelo	Paraffin, white	303786	1
Caelo	Wool alcohol ointment DAB	303847	1
Caelo	Hydrophobic base gel DAC	304036	1
Caelo	Paraffin, white	304124	3
Caelo	Paraffin, yellow	304847	1
Caelo	Unguentum Cordes®	3051804	1
Caelo	Eye paraffin	3051809	1
Caelo	Paraffin, white	3051811	1
Caelo	Hydrophilic ointment DAB	305396	1
Caelo	Wool alcohol ointment DAB	305879	1
Caelo	Wool alcohol ointment DAB	305881	2
Caelo	Paraffin, white	306020	2
Caelo	Paraffin, yellow	307079	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic ointment DAB	307095	2
Caelo	Paraffin, white	3071202	1
Caelo	Paraffin, white	3071709	1
Caelo	Wool alcohol ointment DAB	30731210	1
Caelo	Paraffin, white	307661	2
Caelo	Wool alcohol ointment DAB	307775	3
Caelo	Wool alcohol ointment DAB	307776	1
Caelo	Wool alcohol ointment SR/DAC	308141	1
Caelo	Paraffin, white	308197	2
Caelo	Wool alcohol ointment DAB	30831410	1
Caelo	Wool alcohol ointment DAB	3084001	1
Caelo	Wool alcohol ointment DAB	30841410	1
Caelo	Wool alcohol ointment DAB	308844	2
Caelo	Hydrophilic ointment DAB	308900	3
Caelo	Paraffin, white	3091209	1
Caelo	Paraffin, white	3091702	1
Caelo	Paraffin, white	309564	1
Caelo	Paraffin, yellow	310192	1
Caelo	Wool alcohol ointment SR/DAC	310488	1
Caelo	Hydrophobic base gel DAC	310630	3
Caelo	Eye paraffin	31071502	1
Caelo	Hydrophilic ointment DAB	311067	1
Caelo	Wool alcohol ointment DAB	31121710	1
Caelo	Paraffin, white	311259	2
Caelo	Unguentum Cordes®	3112A-02532	1
Caelo	Wool alcohol ointment DAB	311387	1
Caelo	Wool alcohol ointment DAB	311388	1
Caelo	Wool alcohol ointment DAB	31251910	1
Caelo	Eye paraffin	3210-16271807	1
Caelo	Paraffin, white	323915339805	1
Caelo	Paraffin, white	3260	1
Caelo	Unguentum Cordes®	3264	1
Caelo	Hydrophobic base gel DAC	3289	1
Caelo	Eye paraffin	3294	1
Caelo	Paraffin, white	3348	1
Caelo	Wool alcohol ointment DAB	33753710	1
Caelo	Paraffin, white	3417E-02549	1
Caelo	Eye paraffin	3443	1
Caelo	Hydrophilic ointment DAB	3613Q2539	1
Caelo	Hydrophilic ointment DAB	3962/V04/16	1
Caelo	Eye ointment, emulsifying DAC	3A180213	1
Caelo	Paraffin, white	402312550	1
Caelo	Paraffin, white	4031406	1
Caelo	Paraffin, white	4051502	1
Caelo	Wool alcohol ointment DAB	4051505	1
Caelo	Wool alcohol ointment DAB	4061204	1
Caelo	Wool alcohol ointment DAB	4067201	1
Caelo	Paraffin, white	4091517	1
Caelo	Wool alcohol ointment DAB	41026910	1
Caelo	Wool alcohol ointment DAB	41047010	1
Caelo	Wool alcohol ointment DAB	41839810	1
Caelo	Wool alcohol ointment DAB	41910710	1
Caelo	Wool alcohol ointment DAB	41930610	1
Caelo	Wool alcohol ointment DAB	41940610	1
Caelo	Hydrophilic ointment DAB	4225001	1
Caelo	Wool alcohol ointment DAB	44/AKD9	1
Caelo	Wool alcohol ointment DAB	45054410	1
Caelo	Wool alcohol ointment DAB	46/AKD2	1
Caelo	Wool alcohol ointment DAB	468001	1
Caelo	Hydrophilic ointment DAB	4715M-02539	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydrophilic ointment DAB	4912E-02539	1
Caelo	Eye ointment, emulsifying DAC	4A270212	1
Caelo	Wool alcohol ointment DAB	50/AKD7	1
Caelo	Paraffin, white	50115/1	1
Caelo	Eye paraffin	5011507	1
Caelo	Wool alcohol ointment DAB	50324610	1
Caelo	Paraffin, white	5041303	1
Caelo	Wool alcohol ointment DAB	50414810	1
Caelo	Paraffin, white	5061412	1
Caelo	Wool alcohol ointment DAB	50815310	1
Caelo	Wool alcohol ointment DAB	50835210	1
Caelo	Wool alcohol ointment DAB	50845210	1
Caelo	Wool alcohol ointment DAB	50925410	1
Caelo	Paraffin, white	5098800	1
Caelo	Hydrophilic ointment DAB	5099200	1
Caelo	Wool alcohol ointment DAB	51(17104903)	1
Caelo	Wool alcohol ointment DAB	51015610	1
Caelo	Wool alcohol ointment DAB	51025610	2
Caelo	Paraffin, yellow	5114E-02551	1
Caelo	Paraffin, white	51210195	1
Caelo	Paraffin, white	5121403	1
Caelo	Paraffin, white	5121803	1
Caelo	Wool alcohol ointment DAB	52(17141401)	1
Caelo	Wool alcohol ointment DAB	53(18132501)	1
Caelo	Wool alcohol ointment DAB	53437010	2
Caelo	Wool alcohol ointment DAB	53457110	1
Caelo	Abwaschbare Salbengrundlage ...	5359645	1
Caelo	Wool alcohol ointment DAB	54(18132501)	1
Caelo	Wool alcohol ointment DAB	54157810	1
Caelo	Emulsifying hydrophobic base...	5462107	1
Caelo	Wool alcohol ointment DAB	55(18250901)	1
Caelo	Wool alcohol ointment DAB	56(19007001)	1
Caelo	Eye ointment, emulsifying DAC	5D110416	1
Caelo	Wool alcohol ointment DAB	60(20003084001)	1
Caelo	Paraffin, white	6000083007	2
Caelo	Hydrophilic ointment DAB	6001368013	1
Caelo	Paraffin, white	6002062001	1
Caelo	Paraffin, yellow	60081202	1
Caelo	Eye paraffin	6021505	1
Caelo	Wool alcohol ointment DAB	60429110	1
Caelo	Wool alcohol ointment DAB	60539210	1
Caelo	Paraffin, white	6061302	1
Caelo	Paraffin, white	6061801	1
Caelo	Paraffin, yellow	6111703	1
Caelo	Paraffin, white	613Q-02549	1
Caelo	Paraffin, white	617Q-02549	1
Caelo	Wool alcohol ointment DAB	62041710	1
Caelo	Eye paraffin	6271810	1
Caelo	Paraffin, white	6272009	1
Caelo	Wool alcohol ointment DAB	62922210	1
Caelo	Wool alcohol ointment DAB	62932210	2
Caelo	Wool alcohol ointment DAB	63052310	2
Caelo	Paraffin, white	6326702	1
Caelo	Hydrophobic base gel DAC	64/2014	1
Caelo	Wool alcohol ointment DAB	64342810	5
Caelo	Wool alcohol ointment DAB	64713510	2
Caelo	Wool alcohol ointment DAB	64833610	1
Caelo	Wool alcohol ointment SR wit...	6550115	1
Caelo	Wool alcohol ointment DAB	6550118	1
Caelo	Paraffin, white	6861393	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, yellow	6895914	2
Caelo	Eye ointment, emulsifying DAC	6B260418	1
Caelo	Wool alcohol ointment DAB	70314010	3
Caelo	Paraffin, white	7031502	1
Caelo	Wool alcohol ointment DAB	70434110	1
Caelo	Wool alcohol ointment DAB	70444110	1
Caelo	Paraffin, white	7061802	1
Caelo	Paraffin, white	7082010	1
Caelo	Hydrophilic ointment DAB	70913UngEm	1
Caelo	Paraffin, white	7106001	1
Caelo	Wool alcohol ointment DAB	71124510	2
Caelo	Wool alcohol ointment DAB	7121202	1
Caelo	Paraffin, white	713I-02549	1
Caelo	Wool alcohol ointment DAB	72915810	1
Caelo	Wool alcohol ointment DAB	73035910	2
Caelo	Wool alcohol ointment DAB	74017010	1
Caelo	Wool alcohol ointment DAB	74057010	1
Caelo	Wool alcohol ointment DAB	7457510	1
Caelo	Wool alcohol ointment DAB	74727410	2
Caelo	Wool alcohol ointment DAB	74737410	1
Caelo	Wool alcohol ointment DAB	74747510	2
Caelo	Paraffin, liquid	75001925597	1
Caelo	Paraffin, white	790619-021159	1
Caelo	Hydrophilic ointment DAB	8003325012	1
Caelo	Hydrophilic ointment DAB	8004399001	3
Caelo	Paraffin, white	8012014D	1
Caelo	Hydrophilic ointment DAB	80127028	1
Caelo	Paraffin, white	8021401	1
Caelo	Paraffin, white	8031302	1
Caelo	Paraffin, white	8041703	1
Caelo	Paraffin, white	8051303	1
Caelo	Paraffin, yellow	8061714	1
Caelo	Paraffin, white	8101302	1
Caelo	Wool alcohol ointment DAB	81328810	1
Caelo	Wool alcohol ointment DAB	81348810	2
Caelo	Paraffin, white	813E-02549	1
Caelo	Wool alcohol ointment DAB	81819410	1
Caelo	Wool alcohol ointment DAB	82521010	1
Caelo	Wool alcohol ointment DAB	82541010	1
Caelo	Wool alcohol ointment DAB	82721410	1
Caelo	Wool alcohol ointment DAB	83031710	1
Caelo	Wool alcohol ointment DAB	83241810	1
Caelo	Wool alcohol ointment DAB	83321910	2
Caelo	Wool alcohol ointment DAB	83742110	3
Caelo	Wool alcohol ointment DAB	84132310	1
Caelo	Wool alcohol ointment DAB	84222410	2
Caelo	Wool alcohol ointment DAB	8422410	1
Caelo	Hydrophilic ointment DAB	8703	1
Caelo	Paraffin, yellow	889574	1
Caelo	Hydrophilic ointment DAB	9(18207501)	1
Caelo	Hydrophilic ointment DAB	9000413001	1
Caelo	Paraffin, white	90292119	1
Caelo	Paraffin, yellow	9061818	1
Caelo	Hydrophobic base gel DAC	9082013C	1
Caelo	Hydrophilic ointment DAB	91190601	1
Caelo	Unguentum Cordes®	913M-02532	1
Caelo	Hydrophilic ointment DAB	916I-02539	1
Caelo	Wool alcohol ointment DAB	9182201	1
Caelo	Wool alcohol ointment DAB	9215210	1
Caelo	Wool alcohol ointment DAB	92515310P-200514-3	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, liquid	9271401	1
Caelo	Wool alcohol ointment DAB	93246210	1
Caelo	Wool alcohol ointment DAB	93436310	1
Caelo	Wool alcohol ointment DAB	93556410	1
Caelo	Wool alcohol ointment DAB	9365602	1
Caelo	Wool alcohol ointment DAB	93917110	1
Caelo	Wool alcohol ointment DAB	94947710	1
Caelo	Paraffin, white	9639991	1
Caelo	Unguentum Cordes®	9A163	1
Caelo	Paraffin, white	AKD50	1
Caelo	Wool alcohol ointment DAB	B19182201	1
Caelo	Paraffin, white	Caelo-Prima21000297007	1
Caelo	Paraffin, yellow	CH-B16096913	1
Caelo	Hydrophilic ointment DAB	CH-B17290701	1
Caelo	Eye paraffin	CHB18179716	1
Caelo	Hydrophilic ointment DAB	CHB18207501	1
Caelo	Paraffin, liquid	CHB19010307	1
Caelo	Unguentum Cordes®	Ichtyol	1
Caelo	Paraffin, white	jjjjjj	1
Caelo	Paraffin, white	P159/14	1
Caelo	Paraffin, white	P-503	1
Caelo	Paraffin, white	PV43	1
Caelo	Hydrophilic ointment DAB	Test	1
Caelo	Hydrophilic ointment DAB	U-020413-1	1
Caelo	Wool alcohol ointment DAB	U-240513-3	1
Caeol/ Noweda	Paraffin, white	16272002	1
Caeol/ Noweda	Paraffin, white	16272003	1
Caeol/ Noweda	Unguentum Cordes®	16A023	1
Caeol/ Noweda	Paraffin, yellow	17052401	1
Caeol/Noweda	Eye paraffin	15441511	1
Caeol/Noweda	Hydrophilic ointment DAB	17330302	1
Caeol/Phönix	Paraffin, white	17038212	1
Caeol/Phornix	Wool alcohol ointment DAB	16198502	1
Caeol/Phornix	Paraffin, white	17038219	1
Caeolo/Gehe	Unguentum Cordes®	17A004	1
Caeolo/Krieger	Wool alcohol ointment DAB	16331802	1
Caeolo/Noweda	Wool alcohol ointment DAB	15361901	1
Caeolo/Noweda	Eye paraffin	15441504	1
Caeolo/Noweda	Hydrophilic ointment DAB	16167102	1
Caeolo/Noweda	Paraffin, white	20001122002	1
Caeolo/Noweda	Hydrophilic ointment DAB	6/2019	1
Caeolo	Wool alcohol ointment DAB	14067101	1
Caeolo	Paraffin, white	15394701	1
Caeolo	Eye paraffin	15441514	1
Caesar & Lorenz GmbH	Paraffin, white	15162512	1
Caesar & Loretz /Alliance	Paraffin, white	21002101010	1
Caesar & Loretz /Noweda	Hydrophilic ointment DAB	19000412002	1
Caesar & Loretz /Phönix	Eye paraffin	20003442002	1
Caesar & Loretz GmbH / ...	Paraffin, white	18005015	1
Caesar & Loretz GmbH / ...	Paraffin, white	192540001	3
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	19000468001	1
Caesar & Loretz GmbH / ...	Paraffin, liquid	19010313	1
Caesar & Loretz GmbH / ...	Paraffin, yellow	19165701	1
Caesar & Loretz GmbH / ...	Eye paraffin	20000627005	4
Caesar & Loretz GmbH / ...	Paraffin, white	21000297007	3
Caesar & Loretz GmbH / ...	Eye paraffin	14301804	1
Caesar & Loretz GmbH / ...	Eye paraffin	17342016	1
Caesar & Loretz GmbH / ...	Eye paraffin	18179716	3
Caesar & Loretz GmbH / ...	Hydrophobic base gel DAC	18240305	1
Caesar & Loretz GmbH / ...	Paraffin, yellow	19001803	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	19006902	1
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	20003084001	1
Caesar & Loretz GmbH / ...	Paraffin, white	192540004	1
Caesar & Loretz GmbH / ...	Paraffin, liquid	20004108011	1
Caesar & Loretz GmbH / ...	Hydrophilic ointment DAB	19190601	1
Caesar & Loretz GmbH / ...	Paraffin, liquid	19271401	2
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	20003084001	1
Caesar & Loretz GmbH / ...	Eye paraffin	18179716	1
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	19041002	2
Caesar & Loretz GmbH / ...	Wool alcohol ointment SR wit...	19189902	2
Caesar & Loretz GmbH / ...	Paraffin, white	18005023	1
Caesar & Loretz GmbH / ...	Paraffin, white	1811025-01	2
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	19000472002	3
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	19007102	1
Caesar & Loretz GmbH / ...	Paraffin, liquid	19010307	1
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	19041101	1
Caesar & Loretz GmbH / ...	Paraffin, white	19135403	1
Caesar & Loretz GmbH / ...	Paraffin, white	19135408	1
Caesar & Loretz GmbH / ...	Paraffin, white	18005017	1
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	17301001	1
Caesar & Loretz GmbH / ...	Paraffin, white	18005031	1
Caesar & Loretz GmbH / ...	Paraffin, white	18006401	1
Caesar & Loretz GmbH / ...	Wool alcohol ointment DAB	18250901	1
Caesar & Loretz GmbH / ...	Paraffin, liquid	19010313	1
Caesar & Loretz GmbH / ...	Paraffin, liquid	19010316	1
Caesar & Loretz GmbH / ...	Paraffin, white	19260102	2
Caesar & Loretz GmbH /G...	Paraffin, liquid	20002999003	1
Caesar & Loretz GmbH /K...	Wool alcohol ointment SR wit...	19004203	1
Caesar & Loretz GmbH 40...	Wool alcohol ointment DAB	11185101	1
Caesar & Loretz GmbH Hi...	Paraffin, white	13095701	1
Caesar & Loretz GmbH Hi...	Unguentum Cordes®	13A090	1
Caesar & Loretz GmbH Hi...	Wool alcohol ointment DAB	14283001	1
Caesar & Loretz GmbH Hi...	Paraffin, yellow	14324601	1
Caesar & Loretz GmbH Hi...	Hydrophilic ointment DAB	16008701	2
Caesar & Loretz GmbH Hi...	Hydrophobic base gel DAC	16070503	2
Caesar & Loretz GmbH Hi...	Paraffin, white	16227403	1
Caesar & Loretz GmbH Je...	Paraffin, yellow	20000003003	1
Caesar & Loretz GmbH Ph...	Hydrophobic base gel DAC	20001559008	3
Caesar & Loretz GmbH Ph...	Paraffin, yellow	20001759001	1
Caesar & Loretz GmbH Sa...	Paraffin, liquid	192559007	2
Caesar & Loretz GmbH&/ ...	Paraffin, white	18179702	1
Caesar & Loretz GmbH, 4...	Paraffin, white	11301301	1
Caesar & Loretz GmbH, 4...	Hydrophilic ointment DAB	12056002	1
Caesar & Loretz GmbH, 4...	Paraffin, white	12071805	1
Caesar & Loretz GmbH, 4...	Paraffin, white	12209204	1
Caesar & Loretz GmbH, 4...	Paraffin, white	12209210	1
Caesar & Loretz GmbH, 4...	Paraffin, white	12337706	1
Caesar & Loretz GmbH, 4...	Hydrophilic ointment DAB	13117501	1
Caesar & Loretz GmbH, 4...	Paraffin, white	13130911	1
Caesar & Loretz GmbH, 4...	Hydrophobic base gel DAC	13165201	1
Caesar & Loretz GmbH, P...	Wool alcohol ointment DAB	17141401	1
Caesar & Loretz GmbH, P...	Paraffin, yellow	16090913	1
Caesar & Loretz GmbH, P...	Wool alcohol ointment DAB	17105001	1
Caesar & Loretz GmbH, P...	Wool alcohol ointment DAB	18251001	1
Caesar & Loretz GmbH/ AEP	Paraffin, liquid	192559004	1
Caesar & Loretz GmbH/ AEP	Paraffin, liquid	20004108006	1
Caesar & Loretz GmbH/ AEP	Paraffin, white	21001517002	3
Caesar & Loretz GmbH/ F...	Hydrophilic ointment DAB	19025402	1
Caesar & Loretz GmbH/ F...	Hydrophobic base gel DAC	192539004	2
Caesar & Loretz GmbH/ F...	Eye paraffin	20000627002	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/ G...	Paraffin, white	18314809	1
Caesar & Loretz GmbH/ G...	Wool alcohol ointment DAB	19209002	1
Caesar & Loretz GmbH/ G...	Wool alcohol ointment DAB	19209002	1
Caesar & Loretz GmbH/ G...	Paraffin, liquid	192559004	1
Caesar & Loretz GmbH/ G...	Eye paraffin	20000627002	1
Caesar & Loretz GmbH/ G...	Eye paraffin	20000627005	2
Caesar & Loretz GmbH/ G...	Hydrophobic base gel DAC	20001559012	1
Caesar & Loretz GmbH/ G...	Paraffin, liquid	20004108006	1
Caesar & Loretz GmbH/ G...	Paraffin, white	21000381003	1
Caesar & Loretz GmbH/ G...	Wool alcohol ointment DAB	22000244004	1
Caesar & Loretz GmbH/ J...	Eye paraffin	192008003	1
Caesar & Loretz GmbH/ J...	Paraffin, white	192540002	1
Caesar & Loretz GmbH/ J...	Eye paraffin	20000627010	2
Caesar & Loretz GmbH/ J...	Hydrophobic base gel DAC	20001559012	1
Caesar & Loretz GmbH/ K...	Paraffin, white	20001122001	1
Caesar & Loretz GmbH/ K...	Paraffin, white	18314809	1
Caesar & Loretz GmbH/ K...	Hydrophilic ointment DAB	19190801	1
Caesar & Loretz GmbH/ K...	Hydrophilic ointment DAB	19191001	1
Caesar & Loretz GmbH/ M...	Paraffin, white	18005023	1
Caesar & Loretz GmbH/ M...	Wool alcohol ointment DAB	19007102	1
Caesar & Loretz GmbH/ P...	Hydrophilic ointment DAB	21000363001	2
Caesar & Loretz GmbH/ P...	Hydrophilic ointment DAB	21000365001	2
Caesar & Loretz GmbH/ P...	Wool alcohol ointment DAB	20001901002	1
Caesar & Loretz GmbH/ P...	Wool alcohol ointment DAB	20003084001	1
Caesar & Loretz GmbH/ P...	Emulsifying hydrophobic base...	20003511001	2
Caesar & Loretz GmbH/ S...	Emulsifying hydrophobic base...	20000848001	1
Caesar & Loretz GmbH/ S...	Hydrophilic ointment DAB	19000408001	1
Caesar & Loretz GmbH/ S...	Paraffin, liquid	19010313	1
Caesar & Loretz GmbH/ S...	Paraffin, liquid	Caelo	1
Caesar & Loretz GmbH/	Paraffin, white	21004079002	1
Caesar & Loretz GmbH/AEP	Eye paraffin	181797002	1
Caesar & Loretz GmbH/AEP	Eye paraffin	18179704	1
Caesar & Loretz GmbH/AEP	Eye paraffin	18179716	1
Caesar & Loretz GmbH/AEP	Paraffin, liquid	192559011	1
Caesar & Loretz GmbH/AEP	Paraffin, liquid	21002861002	1
Caesar & Loretz GmbH/AHD	Paraffin, white	18314809	1
Caesar & Loretz GmbH/AHD	Paraffin, liquid	19010303	1
Caesar & Loretz GmbH/AHD	Hydrophobic base gel DAC	19044903	1
Caesar & Loretz GmbH/AHD	Hydrophobic base gel DAC	19253903	1
Caesar & Loretz GmbH/AHD	Paraffin, white	192540001	1
Caesar & Loretz GmbH/AHD	Paraffin, white	19260102	1
Caesar & Loretz GmbH/AHD	Paraffin, liquid	20004108008	1
Caesar & Loretz GmbH/AHD	Eye paraffin	21001982001	2
Caesar & Loretz GmbH/Al...	Paraffin, white	18314801	1
Caesar & Loretz GmbH/Al...	Hydrophilic ointment DAB	19000413001	1
Caesar & Loretz GmbH/Al...	Wool alcohol ointment DAB	19181901	2
Caesar & Loretz GmbH/Al...	Paraffin, white	20000510007	1
Caesar & Loretz GmbH/Al...	Paraffin, liquid	20002999002	2
Caesar & Loretz GmbH/Al...	Paraffin, liquid	20004108006	1
Caesar & Loretz GmbH/Al...	Eye paraffin	21001982001	1
Caesar & Loretz GmbH/Al...	Wool alcohol ointment DAB	21003591002	1
Caesar & Loretz GmbH/AN...	Paraffin, white	17342016	1
Caesar & Loretz GmbH/An...	Paraffin, white	18005015	1
Caesar & Loretz GmbH/An...	Wool alcohol ointment DAB	19181902	1
Caesar & Loretz GmbH/Fi...	Paraffin, yellow	17303501	1
Caesar & Loretz GmbH/Fi...	Wool alcohol ointment DAB	18250401	1
Caesar & Loretz GmbH/Fi...	Paraffin, white	18314809	2
Caesar & Loretz GmbH/Fi...	Paraffin, white	192008003	1
Caesar & Loretz GmbH/Fi...	Paraffin, liquid	192559007	1
Caesar & Loretz GmbH/Fi...	Eye paraffin	20000627002	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Fi…	Hydrophilic ointment DAB	20002047002	2
Caesar & Loretz GmbH/Fi…	Paraffin, liquid	2000299004	1
Caesar & Loretz GmbH/fi…	Wool alcohol ointment DAB	20003638004	1
Caesar & Loretz GmbH/Gehe	Eye paraffin	17342016	1
Caesar & Loretz GmbH/Gehe	Paraffin, white	18174312	1
Caesar & Loretz GmbH/Gehe	Eye paraffin	181797002	1
Caesar & Loretz GmbH/GEHE	Eye paraffin	18179703	1
Caesar & Loretz GmbH/Gehe	Hydrophilic ointment DAB	18207501	1
Caesar & Loretz GmbH/Gehe	Wool alcohol ointment DAB	18250401	1
Caesar & Loretz GmbH/GEHE	Wool alcohol ointment DAB	18250603	1
Caesar & Loretz GmbH/Gehe	Wool alcohol ointment DAB	18251001	1
Caesar & Loretz GmbH/Gehe	Paraffin, white	18314803	1
Caesar & Loretz GmbH/Gehe	Hydrophilic ointment DAB	19000413	1
Caesar & Loretz GmbH/Gehe	Hydrophilic ointment DAB	19000413001	1
Caesar & Loretz GmbH/GEHE	Wool alcohol ointment DAB	19000468001	1
Caesar & Loretz GmbH/GEHE	Wool alcohol ointment DAB	19000469001	1
Caesar & Loretz GmbH/GEHE	Wool alcohol ointment DAB	19000470001	1
Caesar & Loretz GmbH/Gehe	Paraffin, liquid	19010303	1
Caesar & Loretz GmbH/Gehe	Hydrophobic base gel DAC	19101801	1
Caesar & Loretz GmbH/Gehe	Paraffin, white	19135408	1
Caesar & Loretz GmbH/Gehe	Wool alcohol ointment DAB	19182301	1
Caesar & Loretz GmbH/Gehe	Eye paraffin	192008003	1
Caesar & Loretz GmbH/GEHE	Eye paraffin	192008003	1
Caesar & Loretz GmbH/Gehe	Wool alcohol ointment DAB	19212101	1
Caesar & Loretz GmbH/GEHE	Hydrophobic base gel DAC	19253904	1
Caesar & Loretz GmbH/Gehe	Paraffin, white	192540001	4
Caesar & Loretz GmbH/Gehe	Paraffin, white	192540002	1
Caesar & Loretz GmbH/Gehe	Paraffin, liquid	192559007	1
Caesar & Loretz GmbH/Gehe	Paraffin, liquid	192559008	2
Caesar & Loretz GmbH/GEHE	Paraffin, liquid	19271402	2
Caesar & Loretz GmbH/Gehe	Hydrophilic ointment DAB	19288801	1
Caesar & Loretz GmbH/GEHE	Eye paraffin	20000627002	2
Caesar & Loretz GmbH/Gehe	Eye paraffin	20000627005	1
Caesar & Loretz GmbH/Gehe	Eye paraffin	20000627010	2
Caesar & Loretz GmbH/GEHE	Eye paraffin	20000627010	1
Caesar & Loretz GmbH/Gehe	Paraffin, white	20001122002	1
Caesar & Loretz GmbH/Gehe	Wool alcohol ointment DAB	20001901002	1
Caesar & Loretz GmbH/Gehe	Emulsifying hydrophobic base…	20003511001	2
Caesar & Loretz GmbH/GEHE	Abwaschbare Salbengrundlage …	20003915003	1
Caesar & Loretz GmbH/Gehe	Paraffin, liquid	20004108001	1
Caesar & Loretz GmbH/Gehe	Paraffin, liquid	20004108002	1
Caesar & Loretz GmbH/Gehe	Paraffin, white	21000297007	1
Caesar & Loretz GmbH/Gehe	Abwaschbare Salbengrundlage …	21001433003	2
Caesar & Loretz GmbH/Gehe	Paraffin, white	21001517002	1
Caesar & Loretz GmbH/Gehe	Hydrophobic base gel DAC	21001592007	1
Caesar & Loretz GmbH/GEHE	Eye paraffin	21002363005	1
Caesar & Loretz GmbH/Ge…	Eye paraffin	20000627005	3
Caesar & Loretz GmbH/Go…	Hydrophilic ointment DAB	19025402	1
Caesar & Loretz GmbH/Gö…	Hydrophilic ointment DAB	19190601	1
Caesar & Loretz GmbH/Ho…	Wool alcohol ointment DAB	19000472002	1
Caesar & Loretz GmbH/Je…	Paraffin, white	18314803	1
Caesar & Loretz GmbH/Je…	Emulsifying hydrophobic base…	18315801	1
Caesar & Loretz GmbH/Je…	Hydrophilic ointment DAB	19000413001	1
Caesar & Loretz GmbH/Je…	Wool alcohol ointment DAB	19000468001	1
Caesar & Loretz GmbH/Je…	Paraffin, liquid	19010313	1
Caesar & Loretz GmbH/Je…	Hydrophilic ointment DAB	19025402	1
Caesar & Loretz GmbH/Je…	Hydrophobic base gel DAC	19123607	1
Caesar & Loretz GmbH/Je…	Paraffin, white	19135405	1
Caesar & Loretz GmbH/Je…	Paraffin, white	19135408	1
Caesar & Loretz GmbH/Je…	Paraffin, yellow	19165803	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Je...	Eye paraffin	192008003	1
Caesar & Loretz GmbH/Je...	Paraffin, liquid	19271402	1
Caesar & Loretz GmbH/Je...	Eye paraffin	20000627010	1
Caesar & Loretz GmbH/Je...	Hydrophilic ointment DAB	20002047001	2
Caesar & Loretz GmbH/Je...	Hydrophilic ointment DAB	20002930004	1
Caesar & Loretz GmbH/Je...	Paraffin, liquid	20004108008	1
Caesar & Loretz GmbH/Je...	Paraffin, white	21000297008	2
Caesar & Loretz GmbH/Je...	Eye paraffin	21001982001	1
Caesar & Loretz GmbH/Kehr	Paraffin, white	18179718	1
Caesar & Loretz GmbH/Kehr	Paraffin, liquid	19010315	2
Caesar & Loretz GmbH/Kehr	Hydrophilic ointment DAB	19190701	1
Caesar & Loretz GmbH/Kehr	Emulsifying hydrophobic base...	19194801	1
Caesar & Loretz GmbH/Kehr	Paraffin, liquid	192559004	1
Caesar & Loretz GmbH/Kehr	Eye paraffin	20000627002	1
Caesar & Loretz GmbH/Kr...	Hydrophilic ointment DAB	17330601	1
Caesar & Loretz GmbH/Kr...	Paraffin, white	18005023	2
Caesar & Loretz GmbH/Kr...	Eye paraffin	18179718	1
Caesar & Loretz GmbH/Kr...	Paraffin, liquid	19010313	1
Caesar & Loretz GmbH/Kr...	Paraffin, liquid	19010316	1
Caesar & Loretz GmbH/Kr...	Hydrophilic ointment DAB	19025402	1
Caesar & Loretz GmbH/Kr...	Paraffin, yellow	19165701	1
Caesar & Loretz GmbH/Kr...	Eye paraffin	192008002	1
Caesar & Loretz GmbH/Kr...	Paraffin, white	192540001	1
Caesar & Loretz GmbH/Kr...	Hydrophilic ointment DAB	19288801	1
Caesar & Loretz GmbH/Kr...	Paraffin, white	20001122001	1
Caesar & Loretz GmbH/Kr...	Paraffin, liquid	20002999003	1
Caesar & Loretz GmbH/Kr...	Paraffin, liquid	20002999004	1
Caesar & Loretz GmbH/Kr...	Hydrophilic ointment DAB	21000361001	1
Caesar & Loretz GmbH/No...	Paraffin, yellow	17303401	1
Caesar & Loretz GmbH/No...	Eye paraffin	17342007	1
Caesar & Loretz GmbH/No...	Eye paraffin	18179704	1
Caesar & Loretz GmbH/No...	Eye paraffin	18179716	1
Caesar & Loretz GmbH/No...	Eye paraffin	18179717	3
Caesar & Loretz GmbH/No...	Wool alcohol ointment DAB	18250901	1
Caesar & Loretz GmbH/No...	Paraffin, white	18314809	2
Caesar & Loretz GmbH/No...	Wool alcohol ointment DAB	19000472002	2
Caesar & Loretz GmbH/No...	Paraffin, yellow	19001804	1
Caesar & Loretz GmbH/No...	Wool alcohol ointment DAB	19007101	1
Caesar & Loretz GmbH/No...	Paraffin, liquid	19010316	1
Caesar & Loretz GmbH/No...	Hydrophilic ointment DAB	19025401	2
Caesar & Loretz GmbH/No...	Wool alcohol ointment DAB	19181901	4
Caesar & Loretz GmbH/No...	Wool alcohol ointment DAB	19182401	1
Caesar & Loretz GmbH/No...	Hydrophilic ointment DAB	19190601	1
Caesar & Loretz GmbH/No...	Hydrophobic base gel DAC	19194801	1
Caesar & Loretz GmbH/No...	Eye paraffin	192008003	1
Caesar & Loretz GmbH/No...	Paraffin, yellow	192300002	1
Caesar & Loretz GmbH/No...	Paraffin, liquid	19271402	1
Caesar & Loretz GmbH/No...	Paraffin, white	20000510003	1
Caesar & Loretz GmbH/No...	Hydrophobic base gel DAC	20000848001	1
Caesar & Loretz GmbH/No...	Paraffin, white	20001819	1
Caesar & Loretz GmbH/No...	Wool alcohol ointment DAB	20001901001	2
Caesar & Loretz GmbH/NO...	Hydrophilic ointment DAB	20002047002	1
Caesar & Loretz GmbH/No...	Hydrophilic ointment DAB	20002930004	1
Caesar & Loretz GmbH/No...	Wool alcohol ointment DAB	20003085002	1
Caesar & Loretz GmbH/No...	Paraffin, liquid	20004108001	1
Caesar & Loretz GmbH/No...	Paraffin, liquid	20004108011	1
Caesar & Loretz GmbH/No...	Paraffin, white	20004954	2
Caesar & Loretz GmbH/No...	Eye paraffin	21001982003	1
Caesar & Loretz GmbH/P	Paraffin, liquid	192559003	3
Caesar & Loretz GmbH/Ph	Eye paraffin	20003442002	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	192559012	1
Caesar & Loretz GmbH/Ph...	Paraffin, white	20002327003	1
Caesar & Loretz GmbH/Ph...	Eye paraffin	17342015	1
Caesar & Loretz GmbH/Ph...	Paraffin, white	18174312	1
Caesar & Loretz GmbH/Ph...	Eye paraffin	18179717	1
Caesar & Loretz GmbH/Ph...	Wool alcohol ointment DAB	18250402	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	19000412002	1
Caesar & Loretz GmbH/Ph...	Wool alcohol ointment DAB	19000472001	2
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	19191001	1
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	192559003	1
Caesar & Loretz GmbH/Ph...	Paraffin, white	19C12-T06-0777000	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	20002047001	1
Caesar & Loretz GmbH/Ph...	Hydrophobic base gel DAC	20003953001	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	21000362001	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	21000363001	1
Caesar & Loretz GmbH/Ph...	Wool alcohol ointment DAB	19182201	1
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	10910313	1
Caesar & Loretz GmbH/Ph...	Paraffin, white	18006401	1
Caesar & Loretz GmbH/Ph...	Wool alcohol ointment DAB	18132604	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	1819M-02539	1
Caesar & Loretz GmbH/Ph...	Hydrophobic base gel DAC	18240305	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	19000412002	1
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	19010304	1
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	19010315	1
Caesar & Loretz GmbH/Ph...	Wool alcohol ointment DAB	19041002	2
Caesar & Loretz GmbH/Ph...	Paraffin, white	19135404	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	19190801	1
Caesar & Loretz GmbH/Ph...	Eye paraffin	192008003	2
Caesar & Loretz GmbH/Ph...	Hydrophobic base gel DAC	19253904	4
Caesar & Loretz GmbH/Ph...	Paraffin, white	192540001	2
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	192559008	1
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	192559011	2
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	192559012	1
Caesar & Loretz GmbH/Ph...	Hydrophobic base gel DAC	19H21-T080710	1
Caesar & Loretz GmbH/Ph...	Eye paraffin	20000627010	4
Caesar & Loretz GmbH/Ph...	Paraffin, yellow	20001759001	2
Caesar & Loretz GmbH/Ph...	Paraffin, yellow	20001760002	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	20001927	1
Caesar & Loretz GmbH/Ph...	Paraffin, white	20002327003	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	20002929001	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	20002930003	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	20002930004	1
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	20002999004	1
Caesar & Loretz GmbH/Ph...	Paraffin, white	20003237001	1
Caesar & Loretz GmbH/Ph...	Paraffin, white	20003442002	1
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	20004108001	1
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	20004108008	1
Caesar & Loretz GmbH/Ph...	Paraffin, white	21000297007	1
Caesar & Loretz GmbH/Ph...	Hydrophilic ointment DAB	21000361001	1
Caesar & Loretz GmbH/Ph...	Wool alcohol ointment DAB	21000941002	3
Caesar & Loretz GmbH/Ph...	Eye paraffin	21001982001	2
Caesar & Loretz GmbH/Ph...	Paraffin, liquid	21002861001	1
Caesar & Loretz GmbH/Ph...	Wool alcohol ointment DAB	419E-01370	1
Caesar & Loretz GmbH/Px	Wool alcohol ointment DAB	18250901	1
Caesar & Loretz GmbH/Sana	Paraffin, white	20002327003	1
Caesar & Loretz GmbH/Sana	Hydrophobic base gel DAC	20003953011	1
Caesar & Loretz GmbH/Sana	Paraffin, liquid	20004108001	1
Caesar & Loretz GmbH/Sana	Hydrophilic ointment DAB	21001473003	1
Caesar & Loretz GmbH/Sa...	Wool alcohol ointment DAB	11323310	1
Caesar & Loretz GmbH/Sa...	Eye paraffin	17342006	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Sa…	Eye paraffin	17342016	2
Caesar & Loretz GmbH/Sa…	Paraffin, white	18005016	2
Caesar & Loretz GmbH/Sa…	Paraffin, white	18005031	2
Caesar & Loretz GmbH/Sa…	Paraffin, white	18005039	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	18005698	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	18174311	1
Caesar & Loretz GmbH/Sa…	Eye paraffin	18179716	3
Caesar & Loretz GmbH/Sa…	Paraffin, white	18314810	1
Caesar & Loretz GmbH/Sa…	Hydrophilic ointment DAB	19000412002	1
Caesar & Loretz GmbH/Sa…	Hydrophilic ointment DAB	19000413001	3
Caesar & Loretz GmbH/Sa…	Wool alcohol ointment DAB	19000470001	1
Caesar & Loretz GmbH/Sa…	Wool alcohol ointment DAB	19000471001	1
Caesar & Loretz GmbH/Sa…	Wool alcohol ointment DAB	19000766001	1
Caesar & Loretz GmbH/Sa…	Paraffin, yellow	19001803	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	19004888	3
Caesar & Loretz GmbH/Sa…	Hydrophilic ointment DAB	19025402	2
Caesar & Loretz GmbH/Sa…	Hydrophilic ointment DAB	19025801	1
Caesar & Loretz GmbH/Sa…	Hydrophobic base gel DAC	19123607	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	19135411	1
Caesar & Loretz GmbH/Sa…	Paraffin, yellow	19165701	1
Caesar & Loretz GmbH/Sa…	Wool alcohol ointment DAB	19182401	1
Caesar & Loretz GmbH/Sa…	Hydrophilic ointment DAB	19190801	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	192540001	1
Caesar & Loretz GmbH/Sa…	Paraffin, liquid	192559011	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	192601009	1
Caesar & Loretz GmbH/Sa…	Paraffin, liquid	19271402	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	20000627002	5
Caesar & Loretz GmbH/Sa…	Eye paraffin	20000627010	1
Caesar & Loretz GmbH/sa…	Paraffin, yellow	20001760002	2
Caesar & Loretz GmbH/Sa…	Paraffin, liquid	20002999004	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	20003237001	1
Caesar & Loretz GmbH/Sa…	Paraffin, liquid	20004108002	2
Caesar & Loretz GmbH/Sa…	Hydrophilic ointment DAB	21000362001	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	21001517002	1
Caesar & Loretz GmbH/Sa…	Eye paraffin	21001982003	2
Caesar & Loretz GmbH/Sa…	Emulsifying hydrophobic base…	21003145002	1
Caesar & Loretz GmbH/Sa…	Wool alcohol ointment DAB	94037210	1
Caesar & Loretz GmbH/Sa…	Paraffin, white	AP210622-02	1
Caesar & Loretz GmbH/Sa…	Wool alcohol ointment DAB	T11-0734407	1
Caesar & Loretz GmbH	Paraffin, liquid		1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	13014002	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	13245401	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	14024901	2
Caesar & Loretz GmbH	Emulsifying hydrophobic base…	14276401	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	14277801	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	14277901	1
Caesar & Loretz GmbH	Eye ointment, emulsifying DAC	14A101018	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	15221701	2
Caesar & Loretz GmbH	Paraffin, yellow	15330401	1
Caesar & Loretz GmbH	Paraffin, yellow	16032602	1
Caesar & Loretz GmbH	Paraffin, yellow	16096910	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	16198401	1
Caesar & Loretz GmbH	Emulsifying hydrophobic base…	16226002	1
Caesar & Loretz GmbH	Eye paraffin	16271810	1
Caesar & Loretz GmbH	Paraffin, white	17038204	1
Caesar & Loretz GmbH	Paraffin, white	17038213	2
Caesar & Loretz GmbH	Eye paraffin	17052007	1
Caesar & Loretz GmbH	Paraffin, white	17052010	7
Caesar & Loretz GmbH	Eye paraffin	17052012	1
Caesar & Loretz GmbH	Emulsifying hydrophobic base…	17113702	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Wool alcohol ointment DAB	17141401	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	17196707	1
Caesar & Loretz GmbH	Paraffin, white	17204201	1
Caesar & Loretz GmbH	Paraffin, white	17204207	3
Caesar & Loretz GmbH	Hydrophilic ointment DAB	17290601	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	17290701	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	17300902	2
Caesar & Loretz GmbH	Wool alcohol ointment DAB	17301101	2
Caesar & Loretz GmbH	Paraffin, yellow	17303501	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	17330301	3
Caesar & Loretz GmbH	Hydrophilic ointment DAB	17330501	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	17330601	6
Caesar & Loretz GmbH	Eye paraffin	17342005	1
Caesar & Loretz GmbH	Eye paraffin	17342006	3
Caesar & Loretz GmbH	Eye paraffin	17342007	5
Caesar & Loretz GmbH	Eye paraffin	17342008	2
Caesar & Loretz GmbH	Eye paraffin	17342013	6
Caesar & Loretz GmbH	Eye paraffin	17342015	11
Caesar & Loretz GmbH	Paraffin, white	17342016	11
Caesar & Loretz GmbH	Paraffin, white	17347801	1
Caesar & Loretz GmbH	Paraffin, white	17347802	1
Caesar & Loretz GmbH	Paraffin, white	17347902	2
Caesar & Loretz GmbH	Paraffin, white	17347903	1
Caesar & Loretz GmbH	Paraffin, white	17350004	1
Caesar & Loretz GmbH	Paraffin, white	17350018	1
Caesar & Loretz GmbH	Unguentum Cordes®	17A087	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	18004579	1
Caesar & Loretz GmbH	Paraffin, white	18005001	3
Caesar & Loretz GmbH	Paraffin, white	18005015	18
Caesar & Loretz GmbH	Paraffin, white	18005016	6
Caesar & Loretz GmbH	Paraffin, white	18005023	19
Caesar & Loretz GmbH	Paraffin, white	18005025	2
Caesar & Loretz GmbH	Paraffin, white	18005029	1
Caesar & Loretz GmbH	Paraffin, white	18005031	1
Caesar & Loretz GmbH	Paraffin, white	18005033	10
Caesar & Loretz GmbH	Paraffin, white	18005034	1
Caesar & Loretz GmbH	Paraffin, white	18005039	10
Caesar & Loretz GmbH	Paraffin, white	18005040	1
Caesar & Loretz GmbH	Paraffin, white	18006401	1
Caesar & Loretz GmbH	Paraffin, white	18006404	1
Caesar & Loretz GmbH	Paraffin, white	18006406	2
Caesar & Loretz GmbH	Paraffin, yellow	18092002	2
Caesar & Loretz GmbH	Paraffin, yellow	18092006	2
Caesar & Loretz GmbH	Paraffin, yellow	18092008	1
Caesar & Loretz GmbH	Paraffin, yellow	18092014	2
Caesar & Loretz GmbH	Paraffin, yellow	18092015	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	18132501	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	18132603	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	18140604	2
Caesar & Loretz GmbH	Hydrophobic base gel DAC	18140606	2
Caesar & Loretz GmbH	Paraffin, white	18174301	1
Caesar & Loretz GmbH	Paraffin, white	18174302	1
Caesar & Loretz GmbH	Paraffin, white	18174303	3
Caesar & Loretz GmbH	Paraffin, white	18174304	1
Caesar & Loretz GmbH	Paraffin, white	18174312	12
Caesar & Loretz GmbH	Paraffin, white	18174317	1
Caesar & Loretz GmbH	Paraffin, liquid	18177005	1
Caesar & Loretz GmbH	Paraffin, liquid	18177008	4
Caesar & Loretz GmbH	Paraffin, white	181797002	11
Caesar & Loretz GmbH	Eye paraffin	181797003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Eye paraffin	18179702	1
Caesar & Loretz GmbH	Eye paraffin	18179703	5
Caesar & Loretz GmbH	Eye paraffin	18179704	9
Caesar & Loretz GmbH	Paraffin, white	18179716	26
Caesar & Loretz GmbH	Paraffin, white	18179717	33
Caesar & Loretz GmbH	Eye paraffin	18179718	10
Caesar & Loretz GmbH	Paraffin, yellow	18191503	3
Caesar & Loretz GmbH	Hydrophilic ointment DAB	18207501	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	18207502	6
Caesar & Loretz GmbH	Hydrophilic ointment DAB	18207503	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	18207601	1
Caesar & Loretz GmbH	Emulsifying hydrophobic base...	18228301	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	18240302	4
Caesar & Loretz GmbH	Hydrophobic base gel DAC	18240305	4
Caesar & Loretz GmbH	Hydrophobic base gel DAC	18240307	2
Caesar & Loretz GmbH	Hydrophobic base gel DAC	18240308	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	18250301	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	18250401	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	18250402	9
Caesar & Loretz GmbH	Wool alcohol ointment DAB	18250403	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	18250701	9
Caesar & Loretz GmbH	Wool alcohol ointment DAB	18250801	4
Caesar & Loretz GmbH	Wool alcohol ointment DAB	18250901	4
Caesar & Loretz GmbH	Wool alcohol ointment DAB	18251001	2
Caesar & Loretz GmbH	Paraffin, yellow	18296802	4
Caesar & Loretz GmbH	Eye paraffin	18312102	2
Caesar & Loretz GmbH	Paraffin, white	18314801	2
Caesar & Loretz GmbH	Paraffin, white	18314802	1
Caesar & Loretz GmbH	Paraffin, white	18314803	4
Caesar & Loretz GmbH	Paraffin, white	18314809	17
Caesar & Loretz GmbH	Paraffin, white	18314810	3
Caesar & Loretz GmbH	Paraffin, white	18314811	2
Caesar & Loretz GmbH	Hydrophobic base gel DAC	18315801	4
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19000408001	11
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19000412001	8
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19000412002	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19000413001	21
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19000467001	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19000468001	7
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19000469001	6
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19000470001	8
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19000471001	4
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19000472001	10
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19000472002	12
Caesar & Loretz GmbH	Wool alcohol ointment SR wit...	19000657002	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19000766001	1
Caesar & Loretz GmbH	Paraffin, yellow	19001803	8
Caesar & Loretz GmbH	Paraffin, yellow	19001804	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19006204	5
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19006301	2
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19006302	4
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19006902	2
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19007001	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19007101	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19007102	10
Caesar & Loretz GmbH	Paraffin, liquid	19010303	2
Caesar & Loretz GmbH	Paraffin, liquid	19010304	5
Caesar & Loretz GmbH	Paraffin, liquid	19010307	4
Caesar & Loretz GmbH	Paraffin, liquid	19010313	7
Caesar & Loretz GmbH	Paraffin, liquid	19010315	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Paraffin, liquid	19010316	3
Caesar & Loretz GmbH	Paraffin, liquid	19010317	1
Caesar & Loretz GmbH	Emulsifying hydrophobic base...	19021301	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19025401	7
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19025402	25
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19025702	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19025801	7
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19041002	4
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19041003	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19041004	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19041101	4
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19044902	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19044903	3
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19044904	2
Caesar & Loretz GmbH	Wool alcohol ointment SR wit...	19068902	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19101801	9
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19101802	3
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19123606	4
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19123607	4
Caesar & Loretz GmbH	Paraffin, white	191354006	2
Caesar & Loretz GmbH	Paraffin, white	19135402	5
Caesar & Loretz GmbH	Paraffin, white	19135403	8
Caesar & Loretz GmbH	Paraffin, white	19135404	5
Caesar & Loretz GmbH	Paraffin, white	19135405	8
Caesar & Loretz GmbH	Paraffin, white	19135406	5
Caesar & Loretz GmbH	Paraffin, white	19135408	10
Caesar & Loretz GmbH	Paraffin, white	19135410	5
Caesar & Loretz GmbH	Paraffin, yellow	19165701	9
Caesar & Loretz GmbH	Paraffin, yellow	19165702	2
Caesar & Loretz GmbH	Paraffin, yellow	19165803	4
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19181801	2
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19181901	10
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19181902	15
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19181903	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19182101	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19182103	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19182201	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19182301	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19182401	7
Caesar & Loretz GmbH	Wool alcohol ointment SR wit...	19189901	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19190601	16
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19190701	14
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19190801	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19190901	7
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19191001	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19194701	2
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19194801	3
Caesar & Loretz GmbH	Paraffin, white	192008002	8
Caesar & Loretz GmbH	Eye paraffin	192008003	16
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19209002	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19226402	5
Caesar & Loretz GmbH	Paraffin, yellow	192300004	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	19236801	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19244203	1
Caesar & Loretz GmbH	Emulsifying hydrophobic base...	19244301	1
Caesar & Loretz GmbH	Paraffin, yellow	192497004	4
Caesar & Loretz GmbH	Hydrophobic base gel DAC	192539004	7
Caesar & Loretz GmbH	Hydrophobic base gel DAC	192539005	6
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19253902	6
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19253903	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Hydrophobic base gel DAC	19253904	1
Caesar & Loretz GmbH	Paraffin, white	192540001	16
Caesar & Loretz GmbH	Paraffin, white	192540002	3
Caesar & Loretz GmbH	Paraffin, white	192540004	7
Caesar & Loretz GmbH	Paraffin, liquid	192559002	2
Caesar & Loretz GmbH	Paraffin, liquid	192559003	7
Caesar & Loretz GmbH	Paraffin, liquid	192559004	14
Caesar & Loretz GmbH	Paraffin, liquid	192559007	11
Caesar & Loretz GmbH	Paraffin, liquid	192559008	10
Caesar & Loretz GmbH	Paraffin, liquid	192559010	1
Caesar & Loretz GmbH	Paraffin, liquid	192559011	9
Caesar & Loretz GmbH	Paraffin, liquid	192559012	6
Caesar & Loretz GmbH	Paraffin, white	192601009	16
Caesar & Loretz GmbH	Paraffin, white	19260102	9
Caesar & Loretz GmbH	Paraffin, liquid	19271401	7
Caesar & Loretz GmbH	Paraffin, liquid	19271402	6
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19288602	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19288801	5
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19D25-T1-066650	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19D25-T11-066650	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	19D25-T12-066644	1
Caesar & Loretz GmbH	Paraffin, liquid	19H09-T01-070898	1
Caesar & Loretz GmbH	Paraffin, white	20000002001	2
Caesar & Loretz GmbH	Paraffin, yellow	20000003003	8
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20000220002	5
Caesar & Loretz GmbH	Paraffin, white	20000510003	5
Caesar & Loretz GmbH	Paraffin, white	20000510006	2
Caesar & Loretz GmbH	Paraffin, white	20000510007	7
Caesar & Loretz GmbH	Paraffin, white	20000510009	2
Caesar & Loretz GmbH	Paraffin, white	20000510012	1
Caesar & Loretz GmbH	Paraffin, white	20000510013	4
Caesar & Loretz GmbH	Paraffin, white	20000510014	2
Caesar & Loretz GmbH	Paraffin, white	20000627002	24
Caesar & Loretz GmbH	Eye paraffin	20000627003	2
Caesar & Loretz GmbH	Paraffin, white	20000627005	19
Caesar & Loretz GmbH	Paraffin, white	20000627009	5
Caesar & Loretz GmbH	Paraffin, white	20000627010	11
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20000848001	5
Caesar & Loretz GmbH	Emulsifying hydrophobic base...	20000850001	2
Caesar & Loretz GmbH	Paraffin, white	20001122001	12
Caesar & Loretz GmbH	Abwaschbare Salbengrundlage ...	20001329001	2
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559002	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559003	3
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559004	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559006	5
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559008	3
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559010	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559012	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559014	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559015	4
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20001559017	1
Caesar & Loretz GmbH	Abwaschbare Salbengrundlage ...	20001666002	2
Caesar & Loretz GmbH	Paraffin, yellow	20001759001	1
Caesar & Loretz GmbH	Paraffin, yellow	20001760002	5
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20001899002	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20001900001	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20001900002	2
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20001901001	17
CAESAR & LORETZ GMBH	Wool alcohol ointment DAB	20001901001	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20001901002	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Hydrophilic ointment DAB	20001982002	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	20002047001	9
Caesar & Loretz GmbH	Hydrophilic ointment DAB	20002047002	5
Caesar & Loretz GmbH	Paraffin, white	20002327003	5
Caesar & Loretz GmbH	Hydrophilic ointment DAB	20002928001	6
Caesar & Loretz GmbH	Hydrophilic ointment DAB	20002929001	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	20002930002	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	20002930004	2
Caesar & Loretz GmbH	Paraffin, liquid	20002999003	8
Caesar & Loretz GmbH	Paraffin, liquid	20002999004	15
Caesar & Loretz GmbH	Eye paraffin	20003022002	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20003042005	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20003084001	4
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20003085003	5
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20003085004	2
Caesar & Loretz GmbH	Paraffin, white	20003237001	12
Caesar & Loretz GmbH	Eye paraffin	20003442002	6
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20003511001	6
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20003637002	4
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20003638004	4
Caesar & Loretz GmbH	Wool alcohol ointment DAB	20003646001	1
Caesar & Loretz GmbH	Abwaschbare Salbengrundlage ...	20003915003	4
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20003953001	2
Caesar & Loretz GmbH	Hydrophobic base gel DAC	20003953003	3
Caesar & Loretz GmbH	Paraffin, liquid	20004108001	11
Caesar & Loretz GmbH	Paraffin, liquid	20004108002	12
Caesar & Loretz GmbH	Paraffin, liquid	20004108006	6
Caesar & Loretz GmbH	Paraffin, liquid	20004108007	3
Caesar & Loretz GmbH	Paraffin, liquid	20004108008	9
Caesar & Loretz GmbH	Paraffin, liquid	20004108011	5
Caesar & Loretz GmbH	Paraffin, liquid	2007019-02	2
Caesar & Loretz GmbH	Paraffin, liquid	20B10-T34-078149	1
Caesar & Loretz GmbH	Paraffin, white	21000297007	13
Caesar & Loretz GmbH	Paraffin, white	21000297008	1
Caesar & Loretz GmbH	Paraffin, white	21000297012	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	21000361001	3
Caesar & Loretz GmbH	Hydrophilic ointment DAB	21000362001	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	21000363001	3
Caesar & Loretz GmbH	Hydrophilic ointment DAB	21000365001	2
Caesar & Loretz GmbH	Wool alcohol ointment DAB	21000365002	5
Caesar & Loretz GmbH	Paraffin, yellow	21000380002	1
Caesar & Loretz GmbH	Paraffin, yellow	21000380009	3
Caesar & Loretz GmbH	Paraffin, white	21000381003	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	21000556001	1
Caesar & Loretz GmbH	Wool alcohol ointment SR wit...	21000778002	1
Caesar & Loretz GmbH	Abwaschbare Salbengrundlage ...	21000937001	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	21000939002	3
Caesar & Loretz GmbH	Wool alcohol ointment DAB	21000940002	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	21000941001	9
Caesar & Loretz GmbH	Wool alcohol ointment DAB	21000941002	2
Caesar & Loretz GmbH	Wool alcohol ointment DAB	21001242003	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	21001473001	2
Caesar & Loretz GmbH	Paraffin, white	21001517002	4
Caesar & Loretz GmbH	Hydrophobic base gel DAC	21001592002	2
CAESAR & LORETZ GMBH	Hydrophobic base gel DAC	21001592003	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	21001592007	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	21001592011	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	21001592012	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	21001592013	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	21001946002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Paraffin, white	21001982001	5
Caesar & Loretz GmbH	Eye paraffin	21001982003	2
Caesar & Loretz GmbH	Paraffin, white	21002101004	2
Caesar & Loretz GmbH	Paraffin, white	21002101005	8
Caesar & Loretz GmbH	Paraffin, white	21002101007	2
Caesar & Loretz GmbH	Paraffin, white	21002101010	1
Caesar & Loretz GmbH	Paraffin, white	21002101019	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	21002112001	2
Caesar & Loretz GmbH	Hydrophobic base gel DAC	21002113001	2
Caesar & Loretz GmbH	Paraffin, liquid	21002861001	3
Caesar & Loretz GmbH	Paraffin, liquid	21002861002	5
Caesar & Loretz GmbH	Paraffin, liquid	21002861007	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	21003016001	3
Caesar & Loretz GmbH	Hydrophilic ointment DAB	21003016002	2
Caesar & Loretz GmbH	Hydrophilic ointment DAB	21003016003	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	21003145003	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	21003590002	1
CAESAR & LORETZ GMBH	Wool alcohol ointment DAB	21003590002	3
CAESAR & LORETZ GMBH	Wool alcohol ointment DAB	21003591002	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	21004067003	1
Caesar & Loretz GmbH	Paraffin, white	21004079004	1
Caesar & Loretz GmbH	Paraffin, white	21004079005	1
Caesar & Loretz GmbH	Hydrophobic base gel DAC	22000134003	5
Caesar & Loretz GmbH	Abwaschbare Salbengrundlage ...	22000866002	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	2711410	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	2831510	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	2QE03-T03-079927	1
Caesar & Loretz GmbH	Wool alcohol ointment DAB	41930610	1
Caesar & Loretz GmbH	Hydrophilic ointment DAB	T10-0726202	1
Caesar & Loretz GmbHAHD	Hydrophobic base gel DAC	18140606	1
Caesar & Loretz GmbH-Al...	Eye paraffin	20000627002	1
Caesar & Loretz Hilden/...	Hydrophobic base gel DAC	20001559012	1
Caesar & Loretz Hilden	Wool alcohol ointment SR/DAC	18074502	1
Caesar & Loretz Hilden	Paraffin, white	18174304	1
Caesar & Loretz Hilden	Paraffin, white	18174312	1
Caesar & Loretz Hilden	Paraffin, white	18314803	1
Caesar & Loretz Hilden	Wool alcohol ointment SR wit...	19000657002	2
Caesar & Loretz Hilden	Wool alcohol ointment SR wit...	19004203	1
Caesar & Loretz Hilden	Paraffin, liquid	19010307	1
Caesar & Loretz Hilden	Wool alcohol ointment DAB	19041101	2
Caesar & Loretz Hilden	Paraffin, white	19135406	1
Caesar & Loretz(Phönix	Paraffin, white	21000297007	1
Caesar & Loretz/ Noweda	Paraffin, yellow	1606913	1
Caesar & Loretz/ Noweda	Paraffin, white	1710005	1
Caesar & Loretz/AHD	Wool alcohol ointment DAB	18005544	1
Caesar & Loretz/Fiebig	Eye paraffin	20000627010	1
Caesar & Loretz/Geilenk...	Paraffin, white	19135403	1
Caesar & Loretz/Geilenk...	Eye paraffin	192008003	1
Caesar & Loretz/Geilenk...	Paraffin, liquid	19271401	1
Caesar & Loretz/Geilenk...	Paraffin, white	20000510009	1
Caesar & Loretz/Geilenk...	Wool alcohol ointment DAB	20001901001	1
Caesar & Loretz/Geilenk...	Wool alcohol ointment DAB	20003085003	1
Caesar & Loretz/Geilenk...	Wool alcohol ointment DAB	20003638004	1
Caesar & Loretz/Geilenk...	Paraffin, liquid	20004108008	1
Caesar & Loretz/Geilenk...	Wool alcohol ointment DAB	21000941001	1
Caesar & Loretz/Geilenk...	Hydrophobic base gel DAC	20000848001	1
Caesar & Loretz/Noweda	Eye paraffin	150500004	1
Caesar & Loretz/Noweda	Paraffin, yellow	15330401	1
Caesar & Loretz/Noweda	Paraffin, white	15339806	1
Caesar & Loretz/Noweda	Wool alcohol ointment DAB	16066601	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz/Noweda	Wool alcohol ointment DAB	16295102	1
Caesar & Loretz/Noweda	Paraffin, white	16326702	1
Caesar & Loretz/Noweda	Hydrophilic ointment DAB	19190701	1
Caesar & Loretz/Noweda	Paraffin, white	192540002	1
Caesar & Loretz/Noweda	Paraffin, liquid	192559012	1
Caesar & Loretz/Noweda	Eye paraffin	20000627002	1
Caesar & Loretz/Noweda	Emulsifying hydrophobic base...	20003042005	1
Caesar & Loretz/Noweda	Paraffin, liquid	20004108008	1
Caesar & Loretz/Phönix	Paraffin, white	18005034	2
Caesar & Loretz/Phönix	Hydrophobic base gel DAC	18140606	1
Caesar & Loretz/Phönix	Paraffin, white	21002101005	1
Caesar & Loretz	Paraffin, white	15339808	1
Caesar & Loretz	Hydrophilic ointment DAB	16166701	1
Caesar & Loretz	Wool alcohol ointment DAB	16198401	1
Caesar & Loretz	Eye paraffin	16271807	1
Caesar & Loretz	Emulsifying hydrophobic base...	17032303	1
Caesar & Loretz	Eye paraffin	17052010	1
Caesar & Loretz	Hydrophobic base gel DAC	17113703	1
Caesar & Loretz	Wool alcohol ointment DAB	17141202	1
Caesar & Loretz	Hydrophobic base gel DAC	17196706	1
Caesar & Loretz	Hydrophobic base gel DAC	17320408	1
Caesar & Loretz	Hydrophilic ointment DAB	17330302	1
Caesar & Loretz	Hydrophilic ointment DAB	17330501	1
Caesar & Loretz	Paraffin, white	18005029	1
Caesar & Loretz	Paraffin, yellow	18092002	1
Caesar & Loretz	Hydrophobic base gel DAC	18140604	1
Caesar & Loretz	Eye paraffin	181797002	1
Caesar & Loretz	Wool alcohol ointment DAB	18250402	1
CAESAR & LORETZ	Paraffin, white	18314809	2
Caesar & Loretz	Wool alcohol ointment DAB	19007101	1
Caesar & Loretz	Hydrophilic ointment DAB	19025702	1
Caesar &Loretz GmbH	Wool alcohol ointment DAB	12340003	1
Caesar Loretz	Paraffin, white	192601009	1
Caesar Loretz	Paraffin, liquid	20002999003	1
Caesar Loretz	Wool alcohol ointment DAB	21000941001	3
Caesar Sanacorp	Hydrophilic ointment DAB	19000413001	2
Caesar und Loretz GmbH	Paraffin, yellow	19001803	1
Caesar und Loretz	Wool alcohol ointment DAB	293092	2
caesar&lorenz	Wool alcohol ointment DAB	16331702	1
Caesar&Lorenz	Paraffin, liquid	20004108008	1
Caesar&Lorenz	Paraffin, yellow	21000380004	1
Caesar&Loretz GmbH,27.0...	Paraffin, white	16227405	1
Caesar&Loretz GmbH/Anzag	Paraffin, white	12337708	1
Caesar&Loretz GmbH/Anzag	Hydrophilic ointment DAB	13245301	1
Caesar&Loretz GmbH/Anzag	Hydrophilic ointment DAB	13245401	1
Caesar&Loretz GmbH/Anzag	Hydrophilic ointment DAB	14277901	1
Caesar&Loretz GmbH/Anzag	Hydrophilic ointment DAB	16009101	1
Caesar&Loretz GmbH/Gehe	Hydrophobic base gel DAC	19044903	1
Caesar&Loretz GmbH	Wool alcohol ointment DAB	15362002	1
Caesar&Loretz GmbH	Paraffin, white	17038203	1
Caesar&Loretz GmbH	Hydrophobic base gel DAC	17043605	1
Caesar&Loretz GmbH	Wool alcohol ointment DAB	21000941002	1
Caesar&loretz,Anzag	Paraffin, white	12003601	2
Caesar&loretz,Phoenix	Hydrophilic ointment DAB	12311501	1
Caesar&loretz,Phoenix	Hydrophilic ointment DAB	13245401	1
caesar&loretz,Phönix	Wool alcohol ointment DAB	15225601	1
Caesar&Loretz/Gehe	Wool alcohol ointment DAB	19007102	1
Caesar&Loretz/Noweda	Paraffin, yellow	14324301	1
Caesar&Loretz	Paraffin, yellow	16096903	1
Caesar&Loretz	Paraffin, white	17350014	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar&Loretz	Paraffin, liquid	19010303	1
Caesar/Lorenz	Paraffin, white	12321906	1
Caesar/Lorenz	Paraffin, white	12337704	1
Caesar/Noweda	Paraffin, white	13084905	1
Caesar/Noweda	Hydrophobic base gel DAC	15436103	1
Caesar/Sanacorp	Wool alcohol ointment DAB	19000472002	4
Caesar	Hydrophilic ointment DAB	18207501	1
Caeser und Loretz GmbH	Eye paraffin	18179716	1
Caeser und Loretz GmbH	Hydrophilic ointment DAB	19025801	2
Caeser&Loretz GmbH	Paraffin, white	192540002	2
Caeser&Loretz/Phönix	Hydrophilic ointment DAB		1
Caleo/ Noweda	Paraffin, white	17204201	2
Caleo/ Noweda	Hydrophilic ointment DAB	17290701	1
Caleo/ Noweda	Hydrophilic ointment DAB	17330302	1
Caleo/ Noweda	Paraffin, white	17350017	1
Caleo/ Noweda	Paraffin, liquid	192559004	2
Caleo/gehe	Paraffin, white	17052008	1
Caleo/no	Paraffin, liquid	19271402	1
Caleo/Noveda	Hydrophobic base gel DAC	20000051	1
Caleo/Noweda	Hydrophilic ointment DAB	17040201	1
Caleo/Phönix	Emulsifying hydrophobic base...	15064201	1
Caleo/Phönix	Paraffin, white	18005034	1
Caleo	Wool alcohol ointment DAB	17104903	1
Caleo	Emulsifying hydrophobic base...	20000848001	1
calo	Paraffin, white	13380703	1
canea, gehe	Paraffin, white	13095701	2
Caolo/Anzag	Paraffin, white	13185505	1
Cealo / Noweda	Emulsifying hydrophobic base...	13361004	4
Cealo / Phönix	Hydrophilic ointment DAB	17330301	1
Cealo/ Alliance	Eye paraffin	17342005	1
Cealo/ Anzag	Hydrophilic ointment DAB	17040301	1
Cealo/ Anzag	Paraffin, white	17052001	1
Cealo/ Noweda	Eye paraffin	14301804	1
Cealo/AEP	Hydrophilic ointment DAB	20002047001	1
Cealo/AHD	Paraffin, white	16272004	1
Cealo/AHD	Wool alcohol ointment DAB	16331701	1
Cealo/Anzag	Paraffin, white	220712(21002101019)	1
Cealo/Gehe	Wool alcohol ointment DAB	16331704	2
Cealo/Gehe	Paraffin, white	17038213	1
Cealo/Gehe	Eye paraffin	17052012	1
Cealo/GEHE	Wool alcohol ointment DAB	19006902	1
Cealo/Jenne	Wool alcohol ointment DAB	220125(21000942001)	1
Cealo/Jenne	Paraffin, white	220321(21002101005)	1
Cealo/Noweda	Hydrophilic ointment DAB	15221601	1
Cealo/Noweda	Paraffin, white	16272003	2
Cealo/Noweda	Unguentum Cordes®	16A142	2
Cealo/Noweda	Unguentum Cordes®	16A143	1
Cealo/Noweda	Hydrophilic ointment DAB	19025701	1
Cealo/Phönix	Hydrophilic ointment DAB	17330601	1
Cealo/Sanacorp	Wool alcohol ointment DAB	17300902	1
Cealo/Sanacorp	Emulsifying hydrophobic base...	18075803	1
Cealo/Sanacorp	Wool alcohol ointment DAB	21000942001	2
Cealo	Paraffin, white	12209210	1
Cealo	Paraffin, white	14124707	1
Cealo	Unguentum Cordes®	14A113	1
Cealo	Eye paraffin	15441509	1
cealo	Emulsifying hydrophobic base...	16054201	2
Cealo	Eye paraffin	17052010	2
Cealo	Paraffin, yellow	17052401	1
Cealo	Paraffin, white	17204201	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Cealo	Wool alcohol ointment DAB	17301001	1
Cealo	Wool alcohol ointment DAB	19041101	1
Cealo	Paraffin, white	19135402	1
Cealo	Eye paraffin	20000627002	1
Cealo	Wool alcohol ointment DAB	81939510	1
Ceasar & Lorentz GmbH	Eye paraffin	18179716	1
Celo/Jenne	Paraffin, white	18005033	1
Celo	Hydrophilic ointment DAB	16009101	1
Celo	Hydrophobic base gel DAC	16172301	1
Celo	Paraffin, white	16181902	2
chaelo/gehe	Paraffin, white	17106002	1
Chaelo	Hydrophilic ointment DAB	17083102	1
Chiesi/Krieger	Hydrophilic ointment DAB	17330302	1
Chiesi	Unguentum Cordes®	17A004	1
CIchthyol/K	Unguentum Cordes®	11A199	1
Cordes / Gehe	Unguentum Cordes®	17A085	1
Cordes / Noweda	Unguentum Cordes®	19A111	1
Cordes- Fiebig	Unguentum Cordes®	17A070	1
Cordes Hermanni GmbH/ P...	Unguentum Cordes®	20A0111	1
Cordes Hermanni	Unguentum Cordes®	15A020	1
Cordes Hermanni	Unguentum Cordes®	16A085	1
Cordes Phönix	Unguentum Cordes®	17A051	1
Cordes, Hermani / Gehe	Unguentum Cordes®	14A112	1
Cordes, Hermani / Gehe	Unguentum Cordes®	14A171	1
Cordes/AHD	Unguentum Cordes®	17A126	1
Cordes/Alia	Unguentum Cordes®	18A190	1
Cordes/Anzag	Unguentum Cordes®	17A002	1
Cordes/Gehe/07.05.21	Unguentum Cordes®	20A0090	1
Cordes/Gehe	Unguentum Cordes®	13A157	1
Cordes/Gehe	Unguentum Cordes®	13A172	1
Cordes/Gehe	Unguentum Cordes®	16A155	1
Cordes/gehe	Unguentum Cordes®	17A084	1
Cordes/Gehe	Unguentum Cordes®	17A098	1
Cordes/Gehe	Paraffin, white	18314803	1
Cordes/Gehe	Unguentum Cordes®	18A111	1
Cordes/Gehe	Unguentum Cordes®	19A004	1
Cordes/Gehe	Unguentum Cordes®	19A128	1
Cordes/Geilenkirchen	Unguentum Cordes®	19A0154	1
Cordes/Noweda	Unguentum Cordes®	16A101	1
Cordes/Noweda	Unguentum Cordes®	16A121	1
Cordes/Noweda	Unguentum Cordes®	16A140	2
Cordes/Noweda	Unguentum Cordes®	17a002	1
Cordes/Noweda	Unguentum Cordes®	17A106	1
CORDES/NOWEDA	Unguentum Cordes®	18A107	2
CORDES/NOWEDA	Unguentum Cordes®	20A0045	1
cordes/phoenix	Unguentum Cordes®	13A047	1
Cordes/Phoenix	Unguentum Cordes®	15A124	1
Cordes/Phoenix	Unguentum Cordes®	15A125	1
Cordes/Phoenix	Unguentum Cordes®	16A102	1
Cordes/Phoenix	Unguentum Cordes®	18A101	1
Cordes/Phönix	Unguentum Cordes®	13A050	1
Cordes/Phönix	Unguentum Cordes®	15A124	1
Cordes/Phönix	Unguentum Cordes®	16A083	2
Cordes/Phönix	Unguentum Cordes®	16A142	2
Cordes/Phönix	Unguentum Cordes®	17A055	2
Cordes/Phönix	Unguentum Cordes®	18A051	1
Cordes/Phönix	Unguentum Cordes®	18A113	1
Cordes/Phönix	Unguentum Cordes®	19A0181	1
Cordes/Phönix	Unguentum Cordes®	21A0184	1
Cordes/Sanacorp	Unguentum Cordes®	17A045	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Cordes/Sanacorp	Unguentum Cordes®	20A0153	1
Cordes	Unguentum Cordes®	12A079	1
Cordes	Unguentum Cordes®	12A155	1
Cordes	Unguentum Cordes®	13a025	1
Cordes	Unguentum Cordes®	13A052	1
Cordes	Unguentum Cordes®	13A106	1
Cordes	Unguentum Cordes®	14A055	1
Cordes	Unguentum Cordes®	14A062	1
cordes	Unguentum Cordes®	14A116	1
Cordes	Unguentum Cordes®	14A117	2
Cordes	Unguentum Cordes®	15A040	2
Cordes	Unguentum Cordes®	15A060	1
Cordes	Unguentum Cordes®	15A106	1
Cordes	Unguentum Cordes®	16A046	1
Cordes	Unguentum Cordes®	16A051	1
CORDES	Unguentum Cordes®	16A101	1
Cordes	Unguentum Cordes®	16A122	1
Cordes	Unguentum Cordes®	16A137	1
Cordes	Unguentum Cordes®	16A184	1
CORDES	Unguentum Cordes®	16A184	1
Cordes	Unguentum Cordes®	17A004	1
Cordes	Unguentum Cordes®	17A005	2
Cordes	Unguentum Cordes®	17A045	1
Cordes	Unguentum Cordes®	17A067	1
Cordes	Unguentum Cordes®	17A084	1
Cordes	Unguentum Cordes®	17A087	1
cordes	Unguentum Cordes®	18A048	1
Cordes	Unguentum Cordes®	18A048	1
cordes	Unguentum Cordes®	18A051	1
Cordes	Unguentum Cordes®	18A051	1
cordes	Unguentum Cordes®	18A105	1
Cordes	Unguentum Cordes®	18A110	1
CORDES	Unguentum Cordes®	18A156	1
Cordes	Unguentum Cordes®	18A223	1
Cordesl/Phönix	Unguentum Cordes®	17A142	1
DAB 2008 Henry Lamotte ...	Hydrophilic ointment DAB	5243000	1
DAB 2008	Wool alcohol ointment DAB	13255101	1
DAC 2011	Wool alcohol ointment DAB	268471	1
Defektur / Wolf-Apotheke	Hydrophilic ointment DAB	299390	3
Defektur Nasensalbe mit...	Paraffin, white	1716M-07002	1
Defektur Nasensalbe mit...	Paraffin, white	617Q-07061	1
Defektur Nasensalbe mit...	Paraffin, white	816E-07061	1
Defektur	Wool alcohol ointment DAB	10/15	1
Defektur	Wool alcohol ointment DAB	18/14	1
Defektur	Wool alcohol ointment DAB	2/13	1
Defektur	Wool alcohol ointment DAB	26/14	1
Defektur	Wool alcohol ointment DAB	3/14	1
Defektur	Wool alcohol ointment DAB	38/14	1
Defektur	Wool alcohol ointment DAB	3812	1
Defektur	Wool alcohol ointment DAB	40/13	1
Defektur	Wool alcohol ointment DAB	41/14	1
Defektur	Wool alcohol ointment DAB	42/14	1
Defektur	Wool alcohol ointment DAB	45/14	1
Defektur	Wool alcohol ointment DAB	47/13	1
Defektur	Wool alcohol ointment DAB	5/15	1
Defektur	Wool alcohol ointment DAB	53/13	1
Defektur	Wool alcohol ointment DAB	6/14	1
Defekur	Hydrophilic ointment DAB	3216M-02539	1
Delta	Unguentum Cordes®	17A045	1
Doroderm GmbH/ Noweda	Paraffin, white	12115106	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Doroderm GmbH/ Noweda	Hydrophilic ointment DAB	12311501	1
Dr. August Wolff/Phönix	Unguentum Cordes®	17A087	1
E Plus	Hydrophobic base gel DAC	17043605	1
E Plus	Hydrophobic base gel DAC	17196704	1
E Plus	Hydrophobic base gel DAC	17196705	2
E Plus	Unguentum Cordes®	17A051	1
E Plus	Unguentum Cordes®	17A101	1
E Plus	Unguentum Cordes®	17A163	1
E Plus	Paraffin, white	309122	2
Ebert & Jacobi 19.07...	Paraffin, white	1509019-01	1
Ebert & Jacobi 31.05...	Eye paraffin	15278809	1
Ebert & Jacobi 03.08.16	Hydrophilic ointment DAB	160091001	1
Ebert & Jacobi	Hydrophilic ointment DAB	17083004	1
Ebert & Jacobi	Eye paraffin	192008003	1
Ebert 17.08.16 KKH	Unguentum Cordes®	16A048	1
Ebert 18.10.16	Wool alcohol ointment DAB	62031710	1
Ebert u. Jacobi 20.07...	Eye paraffin	15441505	1
Ebert/Ichthyol	Unguentum Cordes®	13A052	1
Ebert	Wool alcohol ointment DAB	13242602	1
Ebert-Jacobi	Unguentum Cordes®	17A008	1
Eigen Defektur	Hydrophilic ointment DAB	1716E-02539	1
Eigen Defektur	Hydrophilic ointment DAB	316M-02539	1
Eigen/Defektur	Hydrophilic ointment DAB	2516A-02539	1
Eigen/Defektur	Hydrophilic ointment DAB	3415I-02539	1
Eigen/Defektur	Hydrophilic ointment DAB	4215E-02539	1
Eigen/Defektur	Hydrophilic ointment DAB	5015E-02539	1
Eigen	Paraffin, white	1120E-07061	1
Eigen	Paraffin, white	181120	1
Eigene Herstellung	Paraffin, white	3218Q-07061	1
eigene	Hydrophilic ointment DAB	1919I-02539	1
EJ/Ichthyol	Unguentum Cordes®	18A005	1
EJ/Ichthyol	Unguentum Cordes®	18A084	1
Engel-Apotheke	Eye paraffin	2119I-07033	1
Eplus	Paraffin, yellow	16187702	1
E-Plus	Unguentum Cordes®	16A101	1
Eplus	Paraffin, white	307661	2
eucerinum	Wool alcohol ointment DAB	33753710	1
eucerinum	Wool alcohol ointment DAB	34554710	1
EuRho / 2	Paraffin, liquid	2002013-01	1
EuRho 08.01.18	Paraffin, white	1705015-01	1
EuRho/ Noweda	Hydrophilic ointment DAB	14277601	1
EuRho/Gehe	Paraffin, white		1
Eurho/Noweda	Wool alcohol ointment DAB	1211017-01	1
EuRho/Noweda	Paraffin, white	1705015-01	1
EuRho/Noweda	Paraffin, liquid	1904026-01	4
EuRho/Noweda	Paraffin, white	76940h	1
EuRho/Phoenix	Paraffin, white	1135232	1
eurho	Unguentum Cordes®	14a079	1
Euro OTC	Eye ointment, emulsifying DAC	10B030818	1
Euro OTC	Paraffin, white	1108046-01	2
Euro OTC	Paraffin, white	1109002-01	2
Euro OTC	Hydrophilic ointment DAB	11211601	2
Euro OTC	Wool alcohol ointment DAB	1204030-01	1
Euro OTC	Paraffin, white	1205048-01	3
Euro OTC	Paraffin, white	1210006-01	8
Euro OTC	Paraffin, white	1210009-01	3
Euro OTC	Paraffin, white	1210010-01	2
Euro OTC	Wool alcohol ointment DAB	1211017-01	3
Euro OTC	Wool alcohol ointment DAB	1211018-01	2
Euro OTC	Wool alcohol ointment DAB	1223768	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Paraffin, white	1230341	2
Euro OTC	Paraffin, yellow	12321908	1
Euro OTC	Paraffin, white	12337707	1
Euro OTC	Hydrophobic base gel DAC	12362505	1
Euro OTC	Paraffin, liquid	1264597	1
Euro OTC	Paraffin, liquid	1283254	1
Euro OTC	Paraffin, white	1302022-01	8
Euro OTC	Paraffin, white	130503101	1
Euro OTC	Paraffin, white	1305031-01	13
Euro OTC	Paraffin, liquid	1305440	3
Euro OTC	Hydrophilic ointment DAB	13117102	1
Euro OTC	Paraffin, white	13163701	2
Euro OTC	Paraffin, liquid	1328624	1
Euro OTC	Paraffin, white	1328784	1
Euro OTC	Paraffin, yellow	1342270	2
Euro OTC	Paraffin, liquid	1350840	3
Euro OTC	Paraffin, white	1377053	1
Euro OTC	Unguentum Cordes®	13A068	1
Euro OTC	Paraffin, white	1401017-01	4
Euro OTC	Paraffin, white	1401018-01	2
Euro OTC	Paraffin, white	1405014-01	9
Euro OTC	Paraffin, white	140900901	1
Euro OTC	Paraffin, white	1409009-01	3
Euro OTC	Hydrophilic ointment DAB	14A06-T10-009049	1
Euro OTC	Unguentum Cordes®	14A078	2
Euro OTC	Unguentum Cordes®	14A079	1
Euro OTC	Unguentum Cordes®	14A172	1
Euro OTC	Paraffin, white	1501037-01	8
Euro OTC	Paraffin, yellow	1503036-01	20
Euro OTC	Paraffin, white	1505017-01	7
Euro OTC	Paraffin, white	150901	1
Euro OTC	Paraffin, white	150901901	1
Euro OTC	Paraffin, white	1509019-01	7
Euro OTC	Paraffin, white	15339806	1
Euro OTC	Hydrophobic base gel DAC	15436102	1
Euro OTC	Paraffin, white	15441505	1
Euro OTC	Eye paraffin	15441514	2
Euro OTC	Unguentum Cordes®	15A155	1
Euro OTC	Unguentum Cordes®	15A159	1
Euro OTC	Paraffin, white	1602009-01	4
Euro OTC	Paraffin, white	1605019-01	13
Euro OTC	Paraffin, white	160519-01	1
Euro OTC	Paraffin, yellow	1606029/01	1
Euro OTC	Paraffin, yellow	1606029-01	4
Euro OTC	Wool alcohol ointment DAB	1608040-01	1
Euro OTC	Paraffin, white	1608041-01	9
Euro OTC	Paraffin, white	1612007-01	3
Euro OTC	Paraffin, white	16138004	1
Euro OTC	Emulsifying hydrophobic base...	16172201	3
Euro OTC	Emulsifying hydrophobic base...	16172301	1
Euro OTC	Paraffin, white	16227404	1
Euro OTC	Hydrophobic base gel DAC	16240105	1
Euro OTC	Wool alcohol ointment DAB	16331901	1
Euro OTC	Unguentum Cordes®	16A074	1
Euro OTC	Unguentum Cordes®	16A101	1
Euro OTC	Unguentum Cordes®	16A123	1
Euro OTC	Unguentum Cordes®	16A139	1
Euro OTC	Hydrophilic ointment DAB	17040202	1
Euro OTC	Paraffin, liquid	1704023-01	1
Euro OTC	Paraffin, white	1705015-01	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Paraffin, yellow	1705016-01	1
Euro OTC	Paraffin, white	17052012	1
Euro OTC	Hydrophilic ointment DAB	17083202	1
Euro OTC	Paraffin, yellow	1709015-01	7
Euro OTC	Paraffin, white	170901601	1
Euro OTC	Paraffin, white	1709016-01	7
Euro OTC	Paraffin, white	17106001	1
Euro OTC	Emulsifying hydrophobic base...	17113703	1
Euro OTC	Paraffin, white	171200801	1
Euro OTC	Paraffin, white	1712008-01	14
Euro OTC	Wool alcohol ointment DAB	17141202	1
Euro OTC	Paraffin, yellow	17303501	1
Euro OTC	Hydrophilic ointment DAB	17330301	1
Euro OTC	Eye paraffin	17342005	1
Euro OTC	Paraffin, white	17342006	1
Euro OTC	Eye paraffin	17342007	1
Euro OTC	Paraffin, white	17347802	1
Euro OTC	Paraffin, white	17347903	1
Euro OTC	Unguentum Cordes®	17A007	1
Euro OTC	Unguentum Cordes®	17A085	1
Euro OTC	Unguentum Cordes®	17A087	1
Euro OTC	Paraffin, white	18005015	1
Euro OTC	Wool alcohol ointment SR/DAC	18005347	1
Euro OTC	Paraffin, white	18006404	1
Euro OTC	Paraffin, white	18006513	1
Euro OTC	Paraffin, white	18006514	1
Euro OTC	Paraffin, white	1804011-01	11
Euro OTC	Paraffin, yellow	180401201	1
Euro OTC	Paraffin, yellow	1804012-01	13
Euro OTC	Wool alcohol ointment DAB	1804013-01	2
Euro OTC	Paraffin, white	1808001-01	11
Euro OTC	Paraffin, yellow	18092002	1
Euro OTC	Wool alcohol ointment DAB	1811023-01	1
Euro OTC	Paraffin, yellow	181102401	1
Euro OTC	Paraffin, yellow	1811024-01	8
Euro OTC	Paraffin, white	1811025-01	15
Euro OTC	Paraffin, white	1811925-01	1
Euro OTC	Wool alcohol ointment DAB	18250402	1
Euro OTC	Eye ointment, emulsifying DAC	18A021115	1
Euro OTC	Paraffin, liquid	190101101	1
Euro OTC	Paraffin, liquid	1901011-01	7
Euro OTC	Paraffin, liquid	1904026-01	16
Euro OTC	Paraffin, liquid	1904026-01	1
Euro OTC	Paraffin, yellow	1904027-01	3
Euro OTC	Paraffin, yellow	1904027-02	1
Euro OTC	Paraffin, yellow	1904027-1	1
Euro OTC	Paraffin, white	190402801	1
Euro OTC	Paraffin, white	1904028-01	14
Euro OTC	Paraffin, white	1904028-0-1	1
Euro OTC	Paraffin, white	1904028-02	11
Euro OTC	Paraffin, liquid	190901000	1
Euro OTC	Paraffin, liquid	1909010-01	29
Euro OTC	Paraffin, liquid	1909016-01	1
Euro OTC	Paraffin, liquid	190910-01	1
Euro OTC	Paraffin, liquid	19099016_01	1
Euro OTC	Paraffin, yellow	1911029-01	5
Euro OTC	Wool alcohol ointment DAB	1911030-01	1
Euro OTC	Wool alcohol ointment SR/DAC	20000019	3
Euro OTC	Paraffin, liquid	200201301	2
Euro OTC	Paraffin, liquid	2002013-01	26

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Paraffin, white	2003054-01	16
Euro OTC	Paraffin, white	200501501	1
Euro OTC	Paraffin, yellow	2005015-01	1
Euro OTC	Paraffin, yellow	2005915-01	1
Euro OTC	Paraffin, liquid	2006036-01	1
Euro OTC	Paraffin, liquid	2007019-01	25
Euro OTC	Paraffin, liquid	200701902	1
Euro OTC	Paraffin, liquid	2007019-02	18
Euro OTC	Paraffin, liquid	21007029-01	1
Euro OTC	Paraffin, white	2101013-01	8
Euro OTC	Paraffin, liquid	2107029-01	9
Euro OTC	Paraffin, liquid	2107029-02	1
Euro OTC	Paraffin, white	2109017-01	2
Euro OTC	Paraffin, white	232110	1
Euro OTC	Wool alcohol ointment DAB	270642	1
Euro OTC	Hydrophilic ointment DAB	288369	1
Euro OTC	Paraffin, white	288714	1
Euro OTC	Paraffin, yellow	289344	1
Euro OTC	Paraffin, white	297283	1
Euro OTC	Paraffin, white	302037	1
Euro OTC	Paraffin, white	306020	2
Euro OTC	Paraffin, white	307661	1
Euro OTC	Wool alcohol ointment SR/DAC	310489	1
Euro OTC	Wool alcohol ointment DAB	6550215	1
Euro OTC	Wool alcohol ointment DAB	70434110	1
Euro OTC	Paraffin, white	929392	1
Euro OTC	Paraffin, yellow	B1811024-01	1
Euro OTC	Paraffin, white	F602635	1
Euro OTC	Paraffin, white	F603290	1
Euro/Krieger	Unguentum Cordes®	18A052	1
Euro/Noweda	Hydrophobic base gel DAC	16151105	1
Euro/Phönix	Paraffin, white	17347901	3
Euroo/Gehe	Paraffin, white	1602009-01	1
EuroOTV	Wool alcohol ointment DAB	1608040-01	1
Europ Ots Pharma	Hydrophobic base gel DAC	13299604	1
Europharm / Gehe	Paraffin, yellow	16096910	1
Fa. Hansen & Rosenthal	Paraffin, white	21812	26
Fagro	Hydrophobic base gel DAC	15240805	1
Fagron	Hydrophobic base gel DAC		4
Fagron	Wool alcohol ointment DAB	101114a	1
Fagron	Paraffin, white	10H12-T01	1
Fagron	Hydrophobic base gel DAC	10L14-T54	3
Fagron	Hydrophobic base gel DAC	10L14-T54-000713	1
Fagron	Emulsifying hydrophobic base...	10L14-T54-003418	1
Fagron	Hydrophobic base gel DAC	10L14-T54-006109	5
Fagron	Hydrophobic base gel DAC	10L14-T54-009128	2
Fagron	Emulsifying hydrophobic base...	10L14-T54-111713	1
Fagron	Emulsifying hydrophobic base...	1108-T01	1
Fagron	Paraffin, white	1140324	1
Fagron	Paraffin, white	1166979	1
Fagron	Hydrophobic base gel DAC	117382	1
Fagron	Hydrophobic base gel DAC	1177382	1
Fagron	Paraffin, white	11G11-T02	2
Fagron	Emulsifying hydrophobic base...	11G25-T01	1
Fagron	Emulsifying hydrophobic base...	11I08-T01	2
Fagron	Paraffin, white	11K14-T01	7
Fagron	Hydrophobic base gel DAC	11K23-T01	1
Fagron	Paraffin, white	12/17-T01	2
Fagron	Paraffin, white	12/17-To1	1
Fagron	Paraffin, white	1205317	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Hydrophobic base gel DAC	1207907	6
Fagron	Paraffin, white	12115107	1
Fagron	Wool alcohol ointment DAB	1234	1
Fagron	Paraffin, white	1260333	7
Fagron	Hydrophobic base gel DAC	1261203	5
Fagron	Hydrophilic ointment DAB	12A12-T03	1
Fagron	Unguentum Cordes®	12A152	1
Fagron	Paraffin, white	12B20-T02	1
Fagron	Emulsifying hydrophobic base...	12B20-T05	1
Fagron	Hydrophilic ointment DAB	12C09-T01	2
Fagron	Paraffin, white	12D16-T01	2
Fagron	Paraffin, white	12D16-To1	1
Fagron	Paraffin, white	12D19-T54-000715	1
Fagron	Emulsifying hydrophobic base...	12F29-T01	1
Fagron	Paraffin, white	12H10-T05	2
Fagron	Paraffin, white	12I17-T01	2
Fagron	Hydrophilic ointment DAB	12J31-T04	3
Fagron	Paraffin, white	12J31-T52-000963	1
Fagron	Paraffin, white	12K01-T52	1
Fagron	Paraffin, white	12K01-T52-000717	1
Fagron	Paraffin, white	12K01-T52-002659	2
Fagron	Paraffin, white	13/19-T05-006192	1
Fagron	Paraffin, white	13/19-T05-006193	1
Fagron	Paraffin, white	13/19-T05-008452	1
Fagron	Hydrophobic base gel DAC	1313160	2
Fagron	Paraffin, white	13338703	1
Fagron	Hydrophobic base gel DAC	1382028	1
Fagron	Unguentum Cordes®	13A178	1
Fagron	Hydrophilic ointment DAB	13B04-T18-001057	3
Fagron	Paraffin, white	13D02T02002660	1
Fagron	Paraffin, white	13D02-T02-002660	1
Fagron	Paraffin, white	13D02-T02-004621	1
Fagron	Wool alcohol ointment DAB	13D09-T04	1
Fagron	Wool alcohol ointment DAB	13D09T04003308	2
Fagron	Wool alcohol ointment DAB	13D09-T04-003308	4
Fagron	Wool alcohol ointment DAB	13D09-T04-007315	1
Fagron	Hydrophilic ointment DAB	13E10-T06-003563	1
Fagron	Hydrophilic ointment DAB	13H13T04006144	1
Fagron	Hydrophilic ointment DAB	13H13-T04-006144	1
Fagron	Paraffin, white	13h19-T05-008453	1
Fagron	Paraffin, yellow	13I03-T03-007018	1
Fagron	Paraffin, white	13I19-T05-006192	2
Fagron	Paraffin, white	13I19-T05-006193	1
Fagron	Paraffin, white	13I19-T05-008452	2
Fagron	Paraffin, yellow	13K20-T05-009125	2
Fagron	Paraffin, white	13l19-T05-008452	1
Fagron	Paraffin, white	1401453	1
Fagron	Wool alcohol ointment DAB	14153601	1
Fagron	Paraffin, white	14189012	2
Fagron	Paraffin, white	14189019	1
Fagron	Paraffin, white	14201001	1
Fagron	Wool alcohol ointment DAB	14819510	1
Fagron	Hydrophilic ointment DAB	14A06-T10-009049	1
Fagron	Hydrophilic ointment DAB	14A06-T11	1
Fagron	Hydrophilic ointment DAB	14A06T11009054	1
Fagron	Hydrophilic ointment DAB	14A06-T11-009054	3
Fagron	Unguentum Cordes®	14A079	1
Fagron	Paraffin, white	14C14T01	3
Fagron	Paraffin, yellow	14C14-T01-012612	1
Fagron	Paraffin, white	14E30-T07	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Paraffin, white	14E30-T07-012094	1
Fagron	Paraffin, white	14e30-t07-012095	1
Fagron	Paraffin, white	14E30-T07-012095	1
Fagron	Paraffin, white	14E30-T07-012096	4
Fagron	Paraffin, white	14E30-T07-014285	9
Fagron	Paraffin, white	14F30-T07-014285	1
Fagron	Hydrophilic ointment DAB	14G08-T06	1
Fagron	Hydrophilic ointment DAB	14G08-T06-013947	2
Fagron	Hydrophilic ointment DAB	14G08-T06-013948	1
Fagron	Hydrophilic ointment DAB	14G08-T07-013951	2
Fagron	Hydrophilic ointment DAB	14G08-T08-013954	5
Fagron	Hydrophilic ointment DAB	14Go8-To8-013954	1
Fagron	Wool alcohol ointment DAB	14H19-T01-011354	1
Fagron	Wool alcohol ointment DAB	14H19-T02-011354	1
Fagron	Wool alcohol ointment DAB	14H19T02018184	1
Fagron	Wool alcohol ointment DAB	14H19-T02-018184	2
Fagron	Paraffin, white	14I03-T03-020831	1
Fagron	Paraffin, white	14J03-020827	1
Fagron	Paraffin, white	14j03-t003-020827	1
Fagron	Paraffin, white	14J03-T03	1
Fagron	Paraffin, white	14j03-t03-020827	1
Fagron	Paraffin, white	14J03-T03-020827	6
Fagron	Paraffin, white	14j03-t03020831	1
Fagron	Paraffin, white	14J03T03020831	1
Fagron	Paraffin, white	14J03T-03-020831	1
Fagron	Paraffin, white	14J03-T03-020831	2
Fagron	Paraffin, white	14j03-to3-020827	1
Fagron	Paraffin, yellow	14K27T29019302	1
Fagron	Paraffin, yellow	14K27-T29-019303	2
Fagron	Paraffin, white	14L11-T03-0277930	1
Fagron	Paraffin, white	14L11-T03-027930	7
Fagron	Paraffin, white	14L11-T03-027930	1
Fagron	Paraffin, white	14L11-T03-027931	1
Fagron	Eye paraffin	1505004	1
Fagron	Wool alcohol ointment DAB	15225601	1
Fagron	Hydrophobic base gel DAC	15240805	1
Fagron	Hydrophobic base gel DAC	15436101	3
Fagron	Eye paraffin	15441514	2
Fagron	Unguentum Cordes®	15A010	1
Fagron	Unguentum Cordes®	15A020	1
Fagron	Unguentum Cordes®	15A073	1
Fagron	Hydrophilic ointment DAB	15B19-T01	1
Fagron	Hydrophilic ointment DAB	15B19-T01-019409	1
Fagron	Hydrophilic ointment DAB	15B19-T01-019411	2
Fagron	Wool alcohol ointment DAB	15E18-20-021463	1
Fagron	Wool alcohol ointment DAB	15E18-T20-021463	4
Fagron	Hydrophilic ointment DAB	15F09-T02-023370	2
Fagron	Hydrophilic ointment DAB	15F23-T12-023864	2
Fagron	Hydrophilic ointment DAB	15F24-T05-023887	1
Fagron	Hydrophobic base gel DAC	15J02-T09-023890	2
Fagron	Hydrophilic ointment DAB	15K24-T01-027590	1
Fagron	Hydrophobic base gel DAC	15L10-T04-028696	2
Fagron	Wool alcohol ointment DAB	16066601	1
Fagron	Paraffin, white	16181902	2
Fagron	Paraffin, white	162274112	4
Fagron	Paraffin, white	16272004	3
Fagron	Paraffin, yellow	16E17-T01-035265	1
Fagron	Paraffin, yellow	16E17-T01-035266	1
Fagron	Hydrophilic ointment DAB	16G18-T04-035261	3
Fagron	Wool alcohol ointment DAB	16H03-T01-032569	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Wool alcohol ointment DAB	16H03T01035269	1
Fagron	Hydrophobic base gel DAC	16H24-T02-034643	4
Fagron	Wool alcohol ointment DAB	16H3-T01-035269	1
Fagron	Hydrophilic ointment DAB	16K09-T02-038560	3
Fagron	Hydrophilic ointment DAB	16K09-T03-038564	1
Fagron	Hydrophilic ointment DAB	16K09-T09-038560	1
Fagron	Paraffin, white	16L27T01042281	1
Fagron	Paraffin, white	16L27-T01-042281	3
Fagron	Paraffin, white	16L27-T01-042282	1
Fagron	Hydrophilic ointment DAB	17/11-T03-048188	3
Fagron	Hydrophobic base gel DAC	17001133	1
Fagron	Wool alcohol ointment DAB	17001877	2
Fagron	Hydrophobic base gel DAC	17032201	1
Fagron	Hydrophilic ointment DAB	17040501	3
Fagron	Paraffin, yellow	1705016-01	1
Fagron	Paraffin, white	17052001	1
Fagron	Eye paraffin	17052010	1
Fagron	Paraffin, liquid	1710025-1	1
Fagron	Hydrophilic ointment DAB	17111-T03-048188	1
Fagron	Wool alcohol ointment DAB	17301001	1
Fagron	Hydrophilic ointment DAB	17330202	1
Fagron	Hydrophilic ointment DAB	17330301	2
Fagron	Paraffin, white	17347903	1
Fagron	Paraffin, white	1735004	1
Fagron	Unguentum Cordes®	1744	1
Fagron	Unguentum Cordes®	17A005	1
Fagron	Unguentum Cordes®	17A007	1
Fagron	Unguentum Cordes®	17A052	1
Fagron	Unguentum Cordes®	17a054	1
Fagron	Paraffin, liquid	17D28-B01	1
Fagron	Paraffin, white	17E02-T01-049359	1
Fagron	Paraffin, white	17E02-T01-062809	2
Fagron	Paraffin, white	17E02-T01-062810	2
Fagron	Hydrophilic ointment DAB	17E04-T07-044038	1
Fagron	Hydrophilic ointment DAB	17E04-T08-044042	1
Fagron	Hydrophilic ointment DAB	17E04-To7-044039	1
Fagron	Hydrophobic base gel DAC	17E29-T03-051638	1
Fagron	Hydrophilic ointment DAB	17I11-T03-048188	3
Fagron	Hydrophilic ointment DAB	17I11-T05	1
Fagron	Hydrophobic base gel DAC	17J06-T19-044327	2
Fagron	Hydrophobic base gel DAC	17L22-T02-059833	2
Fagron	Paraffin, white	17L22-T05-056230	1
Fagron	Paraffin, white	17L22-T05-056478	6
Fagron	Paraffin, white	17L22-T05-056479	1
Fagron	Hydrophilic ointment DAB	18001506	1
Fagron	Paraffin, white	18002117	2
Fagron	Paraffin, white	18003484	1
Fagron	Paraffin, white	18005001	1
Fagron	Paraffin, white	1808585/2	1
Fagron	Wool alcohol ointment DAB	18132604	1
Fagron	Hydrophobic base gel DAC	18140603	1
Fagron	Paraffin, yellow	18191503	1
Fagron	Wool alcohol ointment DAB	18250402	1
Fagron	Unguentum Cordes®	18A110	1
Fagron	Unguentum Cordes®	18A147	1
Fagron	Wool alcohol ointment DAB	18B09-T12-0002	1
Fagron	Wool alcohol ointment DAB	18B09-T12-058739	1
Fagron	Hydrophilic ointment DAB	18F27-T05-057539	4
Fagron	Paraffin, liquid	18I13-B01-355278	1
Fagron	Hydrophobic base gel DAC	18K01-T05062018	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Hydrophobic base gel DAC	18k01-T05-064712	1
Fagron	Hydrophobic base gel DAC	18K01-t05-064712	1
Fagron	Paraffin, white	18K01-T06-065452	1
Fagron	Paraffin, white	18K01-T06-065453	1
Fagron	Paraffin, white	18K01-T06-065455	1
Fagron	Paraffin, yellow	18K06T050644710	1
Fagron	Hydrophilic ointment DAB	18K16	2
Fagron	Hydrophilic ointment DAB	18K16-T02-062150	2
Fagron	Hydrophilic ointment DAB	18K16-T03-062155	1
Fagron	Hydrophilic ointment DAB	19/10-T11-072625	1
Fagron	Paraffin, yellow	19001803	1
Fagron	Paraffin, white	19004888	1
Fagron	Paraffin, white	1912688/1	1
Fagron	Paraffin, liquid	19271401	1
Fagron	Hydrophilic ointment DAB	19B28-T05-064717	7
Fagron	Paraffin, white	19C12-T06-077770	1
Fagron	Hydrophobic base gel DAC	19D01T04064713	1
Fagron	Hydrophobic base gel DAC	19D01-T04-064713	4
Fagron	Hydrophilic ointment DAB	19D25-T11-066650	3
Fagron	Hydrophilic ointment DAB	19D25-T12-06664	1
Fagron	Hydrophilic ointment DAB	19D25-T12-066644	3
Fagron	Hydrophilic ointment DAB	19D25-T13	1
Fagron	Hydrophilic ointment DAB	19D25-T13-066657	3
Fagron	Hydrophilic ointment DAB	19D2-T11-066650	1
Fagron	Paraffin, yellow	19G24-T06-071048	1
Fagron	Paraffin, white	19H05-T01-074234	1
Fagron	Paraffin, white	19H05-T01-074340	2
Fagron	Paraffin, white	19H05-T01-079917	2
Fagron	Hydrophobic base gel DAC	19H05-T02-070213	1
Fagron	Hydrophobic base gel DAC	19H05-T02-070214	2
Fagron	Paraffin, liquid	19H09-T01-070897	5
Fagron	Paraffin, liquid	19H09-T01-070897	1
Fagron	Paraffin, liquid	19H09T01-070898	1
Fagron	Paraffin, liquid	19H09-T01-070898	7
Fagron	Wool alcohol ointment DAB	19H30-T03-071439	2
Fagron	Paraffin, liquid	19HO9-TO1-070898	1
Fagron	Hydrophilic ointment DAB	19J10-T10-072622	4
Fagron	Hydrophilic ointment DAB	19J10-T11	1
Fagron	Hydrophilic ointment DAB	19j10t110003	1
Fagron	Hydrophilic ointment DAB	19J10-T11-07262225	1
Fagron	Hydrophilic ointment DAB	19J10-T11-072625	6
Fagron	Hydrophobic base gel DAC	19L06_T04_072588	1
Fagron	Hydrophobic base gel DAC	19L06-T04-072588	1
Fagron	Hydrophobic base gel DAC	19L06-T04-076555	2
Fagron	Paraffin, white	19L06-T13-081155	1
Fagron	Paraffin, white	19L06-T13-082630	2
Fagron	Hydrophobic base gel DAC	19L06To4072588	1
Fagron	Wool alcohol ointment DAB	19L19-T11-073447	5
Fagron	Paraffin, white	1BK01-T06-063753	1
Fagron	Hydrophilic ointment DAB	1F27-T0-07539	1
Fagron	Hydrophilic ointment DAB	1J10-T11-072625	1
Fagron	Wool alcohol ointment DAB	20107-T02-087603	1
Fagron	Paraffin, liquid	20810-T34-079916	1
Fagron	Unguentum Cordes®	20A0115	2
Fagron	Paraffin, liquid	20B10-134-079916	1
Fagron	Paraffin, liquid	20B10-T34_079916	1
Fagron	Paraffin, liquid	20B10-T34-078149	5
Fagron	Paraffin, liquid	20B10-T34-079916	13
Fagron	Paraffin, liquid	20B10-T34-081549	2
Fagron	Hydrophilic ointment DAB	20C16-T02-077382	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Hydrophilic ointment DAB	20C16-T02	1
Fagron	Hydrophilic ointment DAB	20c19-T02-077382	1
Fagron	Hydrophilic ointment DAB	20E03-T02-079923	3
Fagron	Hydrophilic ointment DAB	20E03-T03	1
Fagron	Hydrophilic ointment DAB	20E03-T03-079927	3
Fagron	Hydrophilic ointment DAB	20E03-T03-079928	1
Fagron	Hydrophilic ointment DAB	20J14-T12-083291	2
Fagron	Hydrophilic ointment DAB	21019-103067679	1
Fagron	Unguentum Cordes®	21A0188	1
Fagron	Hydrophobic base gel DAC	21B09_T02-082627	1
Fagron	Hydrophobic base gel DAC	21B09-T02	1
Fagron	Hydrophobic base gel DAC	21B09-T02-082627	1
Fagron	Hydrophobic base gel DAC	21Bo9-To2-o82627	1
Fagron	Hydrophobic base gel DAC	21D19-T01-089492	2
Fagron	Hydrophilic ointment DAB	21D19-T03	1
Fagron	Hydrophilic ointment DAB	21F16-T05-087690	2
Fagron	Wool alcohol ointment DAB	23033310	1
Fagron	Paraffin, liquid	2618I-02050	1
Fagron	Paraffin, white	27930	1
Fagron	Wool alcohol ointment DAB	281690	1
Fagron	Paraffin, white	290441	1
Fagron	Paraffin, white	291318	2
Fagron	Paraffin, liquid	20B10-T34-079916	1
Fagron	Wool alcohol ointment DAB	305881	1
Fagron	Paraffin, white	306019	2
Fagron	Wool alcohol ointment SR/DAC	308145	1
Fagron	Paraffin, white	3395	1
Fagron	Wool alcohol ointment DAB	40956810	1
Fagron	Hydrophilic ointment DAB	4419M-02539	1
Fagron	Wool alcohol ointment DAB	51946010	3
Fagron	Wool alcohol ointment DAB	53437010	1
Fagron	Wool alcohol ointment DAB	53457110	2
Fagron	Wool alcohol ointment DAB	74017010	1
Fagron	Eye paraffin	760619-021159	1
Fagron	Paraffin, white	790619-013771	2
Fagron	Eye paraffin	790619-021159	2
Fagron	Hydrophilic ointment DAB	79927	1
Fagron	Paraffin, liquid	8012-95-1	1
Fagron	Hydrophilic ointment DAB	80719A	1
Fagron	Wool alcohol ointment DAB	84132310	1
Fagron	Wool alcohol ointment DAB	84232410	2
Fagron	Wool alcohol ointment DAB	8576509	1
Fagron	Hydrophobic base gel DAC	8K01-T05-064712	1
Fagron	Unguentum Cordes®	Ichthyol/Phoenix	1
Fagron	Paraffin, white	probe	1
Fagron	Paraffin, liquid	T01-0708907	1
Fagron	Hydrophilic ointment DAB	T10-0726202	1
Fagron	Hydrophilic ointment DAB	T11-0003	1
Fagron	Hydrophilic ointment DAB	T11-0726205	1
Fagron	Paraffin, liquid	T34-0799106	1
Fagron	Hydrophilic ointment DAB	T05-0863509	1
Fagron	Hydrophobic base gel DAC	V00230	9
Fargon	Paraffin, white	14J03-T03-020827	3
Fargon	Hydrophilic ointment DAB	16G18-T04-035261	1
Fargon	Wool alcohol ointment DAB	16H03-T01-035270	1
FEJ	Unguentum Cordes®	18A193	1
Fiebig 08.10.12 ek: 10,...	Hydrophilic ointment DAB	12055901	1
Fiebig 22.02.13 ek:3,63EUR	Paraffin, white	12115107	1
Fiebig/ Lamotte	Hydrophilic ointment DAB	5860400	2
Fiebig/Beiersdorf	Wool alcohol ointment DAB	73035910	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig/Ichthyol Gesell.	Unguentum Cordes®	18A051	1
Fiebig/Ichthyol Gesell.	Unguentum Cordes®	18A130	1
Fiebig/Ichthyol	Unguentum Cordes®	15A124	1
Fiebig/Ichthyol	Unguentum Cordes®	17A002	2
Fiebig/Ichthyol	Unguentum Cordes®	17A045	2
Fiebig/Ichthyol	Unguentum Cordes®	18A110	1
Fiebig/Ichthyol	Unguentum Cordes®	18A132	1
Fiebig/Ichthyol-Gesells...	Unguentum Cordes®	21A0057	1
Fiebig	Wool alcohol ointment DAB	13Dog-T04-007315	1
Fiebig	Hydrophilic ointment DAB	14225002	1
Fiebig	Paraffin, white	15060014	2
Fiebig	Paraffin, white	15162507	1
Fiebig	Unguentum Cordes®	15A036	1
Fiebig	Unguentum Cordes®	15A164	1
Fiebig	Hydrophilic ointment DAB	16166801	1
Fiebig	Paraffin, white	16181903	1
Fiebig	Paraffin, white	16181904	1
Fiebig	Paraffin, white	1618904	1
Fiebig	Paraffin, white	16227403	1
Fiebig	Paraffin, white	16326702	4
Fiebig	Unguentum Cordes®	16A013	1
Fiebig	Eye paraffin	17052001	2
Fiebig	Eye paraffin	17052008	1
Fiebig	Eye paraffin	17052012	3
Fiebig	Paraffin, white	17106001	2
Fiebig	Paraffin, white	17106002	1
Fiebig	Hydrophilic ointment DAB	17185501	1
Fiebig	Hydrophilic ointment DAB	17290703	1
Fiebig	Eye paraffin	17342015	1
Fiebig	Eye paraffin	17342016	1
Fiebig	Paraffin, white	17347801	1
Fiebig	Paraffin, white	17347802	1
Fiebig	Paraffin, white	17347901	1
Fiebig	Paraffin, white	17350017	1
Fiebig	Paraffin, white	17350018	1
Fiebig	Unguentum Cordes®	17A105	1
Fiebig	Wool alcohol ointment DAB	18001096	1
Fiebig	Paraffin, white	18005016	1
Fiebig	Paraffin, white	18005023	2
Fiebig	Wool alcohol ointment DAB	18005547	1
Fiebig	Paraffin, white	18006401	3
Fiebig	Paraffin, white	18006404	1
Fiebig	Paraffin, white	18006406	2
Fiebig	Hydrophilic ointment DAB	18207602	1
Fiebig	Unguentum Cordes®	18a052	1
Fiebig	Hydrophilic ointment DAB	19000412001	2
Fiebig	Hydrophilic ointment DAB	19025402	1
Fiebig	Eye paraffin	192008003	2
Fiebig	Paraffin, liquid	192559004	1
Fiebig	Paraffin, white	20000510007	1
Fiebig	Wool alcohol ointment DAB	20002128	1
Fiebig	Wool alcohol ointment DAB	2831510	1
Fiebig	Wool alcohol ointment DAB	3712310	1
Fiebig	Wool alcohol ointment DAB	61149910	1
Fiebig	Wool alcohol ointment DAB	81819410	1
Fiebig	Wool alcohol ointment DAB	83241810	1
Fiebig	Wool alcohol ointment DAB	84132310	1
Finteler Apotheke	Eye paraffin	16271807	2
FJG	Paraffin, white	14301804	1
Förster/Phönix	Unguentum Cordes®	158142	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
förster	Unguentum Cordes®	17A113	1
Fragon/Phoenix	Paraffin, white	14J03-T03-020831	1
fragon	Wool alcohol ointment DAB	12345	1
Galderma/Phönix	Unguentum Cordes®	16A077	1
Gatt-Koller	Paraffin, white	1802870	1
Gatt-Koller	Paraffin, white	1803869	1
Gatt-Koller	Paraffin, white	1900832	1
gebepharm	Unguentum Cordes®	913I-02532	1
Gehe - Ichthyol	Unguentum Cordes®	12A183	1
Gehe - Ichthyol	Unguentum Cordes®	13A136	1
Gehe - Ichthyol	Unguentum Cordes®	15A027	1
Gehe / Beiersdorf	Wool alcohol ointment DAB	63052310	1
Gehe / Ichthyol	Unguentum Cordes®	20A0116	2
Gehe / Ichthyol-Gesells...	Unguentum Cordes®	16A061	1
Gehe 09.04.19	Paraffin, yellow	18191503	1
GEHE 17.06.2014	Wool alcohol ointment DAB	23033310	1
Gehe 20.06.15/euro	Paraffin, white	13380709	1
Gehe 23.05.2014	Hydrophobic base gel DAC	14044601	1
gehe 26.11.13	Paraffin, white	5489700	1
Gehe am 03.02.2014	Paraffin, white	5489700	1
Gehe am 27.2.14	Paraffin, white	12337706	1
Gehe amax	Wool alcohol ointment DAB	17301001	1
Gehe amax	Hydrophobic base gel DAC	192539004	1
Gehe GmbH	Eye paraffin	17342015	1
Gehe Kassel	Unguentum Cordes®	15A021	1
Gehe Kassel	Hydrophobic base gel DAC	271904	1
GEHE Kassel	Hydrophobic base gel DAC	289214	1
Gehe NL	Paraffin, white	20003115	1
Gehe,11.05.15/Cordes	Unguentum Cordes®	15A040	1
Gehe/ Ichthyol	Unguentum Cordes®	17A067	1
Gehe/ Beiersdof AG	Wool alcohol ointment DAB	41940610	1
Gehe/ Beiersdof AG	Wool alcohol ointment DAB	94947710	1
Gehe/ Ichthyol Gesellsc...	Unguentum Cordes®	18A232	1
Gehe/ ichthyol	Unguentum Cordes®	18A156	1
Gehe/ Ichthyol	Unguentum Cordes®	20A0030	1
Gehe/Beiersdorf	Wool alcohol ointment DAB	1710910	2
Gehe/Beiersdorf	Wool alcohol ointment DAB	2831510	1
Gehe/Beiersdorf	Wool alcohol ointment DAB	40726610	1
Gehe/Beiersdorf	Wool alcohol ointment DAB	41930610	2
Gehe/Beiersdorf	Wool alcohol ointment DAB	50414810	1
Gehe/Beiersdorf	Wool alcohol ointment DAB	50444710	1
Gehe/Beiersdorf	Wool alcohol ointment DAB	50815310	1
Gehe/Beiersdorf	Wool alcohol ointment DAB	60429110	1
Gehe/Beiersdorf	Wool alcohol ointment DAB	64342810	1
Gehe/Beiersdorf	Wool alcohol ointment DAB	94037210	1
GEHE/Caesar & Loretz GmbH	Wool alcohol ointment DAB	19041002	1
Gehe/EuRho	Paraffin, yellow	1606029-01	1
Gehe/Henry Lamotte	Hydrophilic ointment DAB	6001368013	2
Gehe/Ichthyol	Unguentum Cordes®	13A090	1
Gehe/Ichthyol	Unguentum Cordes®	14A061	1
Gehe/Ichthyol	Unguentum Cordes®	15A124	4
Gehe/Ichthyol	Unguentum Cordes®	15A141	1
Gehe/Ichthyol	Unguentum Cordes®	15A191	4
Gehe/Ichthyol	Unguentum Cordes®	15A192	1
Gehe/Ichthyol	Unguentum Cordes®	16A085	1
Gehe/Ichthyol	Unguentum Cordes®	16A099	3
Gehe/Ichthyol	Unguentum Cordes®	16A139	1
Gehe/Ichthyol	Unguentum Cordes®	18A232	1
Gehe/Ichthyol	Unguentum Cordes®	19A003	1
Gehe/Ichthyol	Unguentum Cordes®	19A112	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe/Ichthyol	Unguentum Cordes®	20A0030	1
Gehe/Ichthyol	Unguentum Cordes®	21A0055	1
Gehe/ichthyol	Unguentum Cordes®	21A0102	1
Gehe/medphano	Wool alcohol ointment DAB	20000019	1
Gehe	Eye ointment, emulsifying DAC	10A010615	1
Gehe	Paraffin, white	11315403	1
Gehe	Wool alcohol ointment DAB	11335003	1
Gehe	Hydrophobic base gel DAC	119219	1
Gehe	Unguentum Cordes®	11A161	1
Gehe	Unguentum Cordes®	11A223	2
Gehe	Unguentum Cordes®	11A234	1
Gehe	Paraffin, white	12032404	1
Gehe	Paraffin, white	1205048-01	1
Gehe	Paraffin, white	1210006-01	1
GEHE	Paraffin, white	12115106	1
Gehe	Hydrophilic ointment DAB	12205201	1
Gehe	Paraffin, white	12311004	1
Gehe	Unguentum Cordes®	12A054	1
Gehe	Unguentum Cordes®	12A056	2
Gehe	Unguentum Cordes®	12A075	1
Gehe	Unguentum Cordes®	12A079	1
Gehe	Unguentum Cordes®	12A087	1
Gehe	Unguentum Cordes®	12A124	1
Gehe	Unguentum Cordes®	12a155	2
Gehe	Unguentum Cordes®	12A155	1
Gehe	Unguentum Cordes®	12A205	2
Gehe	Hydrophilic ointment DAB	13117301	2
Gehe	Wool alcohol ointment DAB	13126001	1
Gehe	Wool alcohol ointment DAB	13357910	1
Gehe	Paraffin, white	13380720	1
Gehe	Paraffin, white	13380721	1
Gehe	Wool alcohol ointment DAB	13554310	1
Gehe	Unguentum Cordes®	13A031	3
Gehe	Unguentum Cordes®	13A054	1
Gehe	Unguentum Cordes®	13A106	1
Gehe	Unguentum Cordes®	13A136	2
Gehe	Unguentum Cordes®	13A141	1
Gehe	Unguentum Cordes®	13A153	1
Gehe	Unguentum Cordes®	13A156	1
Gehe	Unguentum Cordes®	13A166	1
Gehe	Eye ointment, emulsifying DAC	13B070817	1
Gehe	Wool alcohol ointment DAB	14047010	1
Gehe	Hydrophilic ointment DAB	14123101	1
Gehe	Eye paraffin	14124706	2
Gehe	Unguentum Cordes®	14A179	1
Gehe	Unguentum Cordes®	14A213	1
Gehe	Hydrophilic ointment DAB	14G08-T08-013954	1
Gehe	Hydrophilic ointment DAB	15016601	2
Gehe	Hydrophilic ointment DAB	15016901	1
Gehe	Eye paraffin	15050003	1
Gehe	Eye paraffin	15050004	3
Gehe	Eye paraffin	150550004	1
Gehe	Paraffin, white	15060005	1
Gehe	Paraffin, white	15060012	1
Gehe	Paraffin, white	1509019-01	1
Gehe	Hydrophobic base gel DAC	15149603	1
Gehe	Paraffin, white	15162519	1
Gehe	Paraffin, white	15204302	2
Gehe	Hydrophilic ointment DAB	15221701	1
Gehe	Eye paraffin	15278804	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Eye paraffin	15278808	2
gehe	Paraffin, white	15339806	1
Gehe	Paraffin, white	15339806	3
Gehe	Wool alcohol ointment DAB	15361801	1
Gehe	Wool alcohol ointment DAB	15362001	1
Gehe	Eye paraffin	15441501	3
Gehe	Eye paraffin	15441502	2
Gehe	Eye paraffin	15441509	1
Gehe	Eye paraffin	15441510	1
Gehe	Eye paraffin	15441511	1
Gehe	Eye paraffin	15441514	4
Gehe	Unguentum Cordes®	15A021	1
Gehe	Unguentum Cordes®	15A022	1
Gehe	Unguentum Cordes®	15A060	1
Gehe	Unguentum Cordes®	15A062	3
Gehe	Unguentum Cordes®	15A089	1
Gehe	Unguentum Cordes®	15A091	1
Gehe	Unguentum Cordes®	15A124	1
Gehe	Unguentum Cordes®	15A142	1
Gehe	Unguentum Cordes®	15A148	1
Gehe	Unguentum Cordes®	15A150	1
Gehe	Unguentum Cordes®	15A191	1
Gehe	Unguentum Cordes®	15A192	1
Gehe	Wool alcohol ointment DAB	16007201	2
Gehe	Hydrophilic ointment DAB	16009101	1
Gehe	Paraffin, yellow	16032602	1
Gehe	Paraffin, yellow	16096913	1
Gehe	Paraffin, white	16138003	1
Gehe	Paraffin, white	16138004	1
Gehe	Hydrophobic base gel DAC	16151105	1
Gehe	Hydrophilic ointment DAB	16166801	1
Gehe	Hydrophilic ointment DAB	16167001	1
Gehe	Wool alcohol ointment DAB	16198601	1
Gehe	Hydrophobic base gel DAC	16240104	1
Gehe	Paraffin, white	16241105	1
Gehe	Eye paraffin	16271807	1
Gehe	Paraffin, yellow	16281001	1
Gehe	Paraffin, white	16326702	2
GEHE	Wool alcohol ointment DAB	1633170	1
Gehe	Unguentum Cordes®	16A046	1
GEHE	Unguentum Cordes®	16A099	1
Gehe	Unguentum Cordes®	16A101	1
Gehe	Unguentum Cordes®	16A123	1
Gehe	Unguentum Cordes®	16A141	1
Gehe	Unguentum Cordes®	16A143	1
Gehe	Unguentum Cordes®	16A184	1
Gehe	Eye ointment, emulsifying DAC	16C11117	1
Gehe	Wool alcohol ointment DAB	17001876	1
Gehe	Emulsifying hydrophobic base...	17032303	1
Gehe	Hydrophobic base gel DAC	17043605	1
Gehe	Paraffin, white	1705015-01	1
Gehe	Paraffin, white	17052001	2
Gehe	Eye paraffin	17052008	1
Gehe	Eye paraffin	17052010	1
GEHE	Eye paraffin	17052010	1
Gehe	Eye paraffin	17052012	2
Gehe	Paraffin, white	17106001	1
Gehe	Paraffin, white	17106005	2
Gehe	Hydrophobic base gel DAC	17113702	1
GEHE	Wool alcohol ointment DAB	17141202	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
GEHE	Paraffin, yellow	17223102	2
gehe	Hydrophilic ointment DAB	17290603	1
GEHE	Paraffin, yellow	17303401	2
Gehe	Hydrophilic ointment DAB	17330301	1
Gehe	Hydrophilic ointment DAB	17330601	1
Gehe	Eye paraffin	17342007	1
Gehe	Eye paraffin	17342015	1
Gehe	Paraffin, white	17347801	2
Gehe	Paraffin, white	17347802	1
GEHE	Paraffin, white	17350004	1
Gehe	Unguentum Cordes®	17A004	1
Gehe	Unguentum Cordes®	17A049	1
GEHE	Unguentum Cordes®	17A053	1
Gehe	Unguentum Cordes®	17A054	1
Gehe	Unguentum Cordes®	17A085	2
gehe	Unguentum Cordes®	17A112	1
GEHE	Unguentum Cordes®	17A113	1
GEHE	Unguentum Cordes®	17A127	2
Gehe	Wool alcohol ointment DAB	18004090	1
Gehe	Paraffin, white	18005015	2
Gehe	Paraffin, white	18005023	3
Gehe	Paraffin, white	18005025	2
Gehe	Paraffin, white	18005031	1
Gehe	Wool alcohol ointment DAB	18005546	1
Gehe	Paraffin, white	18006404	1
Gehe	Hydrophobic base gel DAC	18140606	1
GEHE	Paraffin, white	18174307	1
Gehe	Eye paraffin	18174312	1
Gehe	Paraffin, white	18314803	1
GEHE	Paraffin, white	18314811	1
Gehe	Hydrophobic base gel DAC	18315801	1
Gehe	Unguentum Cordes®	18A048	1
GEHE	Unguentum Cordes®	18A048	2
GEHE	Unguentum Cordes®	18A049	1
GEHE	Unguentum Cordes®	18A050	2
GEHE	Unguentum Cordes®	18A067	1
GEHE	Unguentum Cordes®	18A107	1
Gehe	Unguentum Cordes®	18A110	1
Gehe	Unguentum Cordes®	18A111	1
Gehe	Unguentum Cordes®	18A112	1
Gehe	Unguentum Cordes®	18A113	1
GEHE	Unguentum Cordes®	18A147	2
Gehe	Unguentum Cordes®	18A156	1
Gehe	Unguentum Cordes®	18A166	1
Gehe	Unguentum Cordes®	18A215	1
GEHE	Unguentum Cordes®	18A215	1
Gehe	Unguentum Cordes®	18A224	1
Gehe	Unguentum Cordes®	18A232	1
Gehe	Hydrophilic ointment DAB	19000408001	1
Gehe	Hydrophilic ointment DAB	19000412001	2
GEHE	Paraffin, yellow	19001804	1
Gehe	Paraffin, white	19006208	1
Gehe	Paraffin, liquid	19010315	1
GEHE	Paraffin, liquid	1904026-1	1
GEHE	Hydrophobic base gel DAC	19123606	2
Gehe	Hydrophilic ointment DAB	19190601	1
Gehe	Hydrophobic base gel DAC	192539004	1
Gehe	Paraffin, liquid	192559004	1
Gehe	Paraffin, liquid	192559012	1
Gehe	Paraffin, white	192601009	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Unguentum Cordes®	19A006	1
Gehe	Unguentum Cordes®	19A0153	1
Gehe	Wool alcohol ointment SR/DAC	20000019	1
Gehe	Eye paraffin	20000627005	1
Gehe	Paraffin, yellow	20001760002	1
Gehe	Paraffin, white	20001819	1
Gehe	Wool alcohol ointment DAB	20002128	1
Gehe	Paraffin, liquid	20004108011	3
Gehe	Unguentum Cordes®	20A0049	1
Gehe	Unguentum Cordes®	20A0090	1
Gehe	Unguentum Cordes®	20A0105	2
Gehe	Unguentum Cordes®	20A0152	1
Gehe	Unguentum Cordes®	20A0172	1
Gehe	Unguentum Cordes®	20A173	1
Gehe	Unguentum Cordes®	20A192	1
Gehe	Hydrophobic base gel DAC	21000169	1
Gehe	Paraffin, yellow	21000380010	1
Gehe	Hydrophobic base gel DAC	21001592002	1
Gehe	Hydrophilic ointment DAB	21001999	1
Gehe	Paraffin, white	2109017-01	1
Gehe	Wool alcohol ointment DAB	21241410	2
Gehe	Unguentum Cordes®	21A0114	1
Gehe	Unguentum Cordes®	21A0163	1
Gehe	Paraffin, yellow	22002614	1
Gehe	Wool alcohol ointment DAB	22412510	2
Gehe	Wool alcohol ointment DAB	22532710	1
Gehe	Wool alcohol ointment DAB	23033310	1
Gehe	Wool alcohol ointment DAB	23753710	1
Gehe	Paraffin, white	268099	1
GEHE	Paraffin, white	270163	1
GEHE	Paraffin, white	270834	1
Gehe	Wool alcohol ointment SR wit…	276135	1
Gehe	Hydrophilic ointment DAB	276671	2
Gehe	Paraffin, white	277059	2
Gehe	Paraffin, white	277060	1
Gehe	Paraffin, white	279161	1
Gehe	Paraffin, white	279969	1
Gehe	Wool alcohol ointment DAB	280061	1
Gehe	Paraffin, white	282966	1
Gehe	Paraffin, white	286095	2
Gehe	Paraffin, white	286096	1
Gehe	Paraffin, white	288714	2
Gehe	Wool alcohol ointment DAB	289509	1
Gehe	Paraffin, white	291318	1
Gehe	Paraffin, white	293553	1
Gehe	Paraffin, white	297282	1
Gehe	Unguentum Cordes®	20A0173	1
GEHE	Paraffin, white	300119	1
Gehe	Paraffin, white	306019	1
Gehe	Wool alcohol ointment DAB	30711310	1
Gehe	Wool alcohol ointment DAB	30831410	2
Gehe	Wool alcohol ointment DAB	30851510	1
Gehe	Paraffin, white	309564	1
Gehe	Paraffin, yellow	310191	1
GEHE	Wool alcohol ointment SR wit…	310488	2
Gehe	Wool alcohol ointment DAB	31231810	1
Gehe	Wool alcohol ointment DAB	31322010	1
Gehe	Wool alcohol ointment DAB	32932210	1
Gehe	Wool alcohol ointment DAB	33323210	1
Gehe	Wool alcohol ointment DAB	33753710	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Paraffin, liquid	3A060420	1
Gehe	Wool alcohol ointment DAB	41026910	1
Gehe	Wool alcohol ointment DAB	41950710	1
Gehe	Wool alcohol ointment DAB	43142910	1
Gehe	Wool alcohol ointment DAB	45054410	1
Gehe	Eye ointment, emulsifying DAC	4B260418	1
Gehe	Wool alcohol ointment DAB	50414810	2
Gehe	Wool alcohol ointment DAB	50444710	1
Gehe	Wool alcohol ointment DAB	50815310	1
Gehe	Wool alcohol ointment DAB	50925410	1
Gehe	Wool alcohol ointment DAB	5095510	1
Gehe	Wool alcohol ointment DAB	53457110	1
Gehe	Wool alcohol ointment DAB	54127710	1
Gehe	Paraffin, white	60081104	1
Gehe	Wool alcohol ointment DAB	60419110	1
Gehe	Wool alcohol ointment DAB	60539210	1
Gehe	Wool alcohol ointment SR wit...	6550115	1
Gehe	Wool alcohol ointment DAB	71124510	1
Gehe	Wool alcohol ointment DAB	71214810	1
Gehe	Wool alcohol ointment DAB	74747510	2
GEHE	Wool alcohol ointment DAB	93556410	1
Gehe-Ichthyol	Unguentum Cordes®	15A060	2
Gehe-Ichthyol	Unguentum Cordes®	15A073	1
Gehe-Ichthyol	Unguentum Cordes®	15A123	1
Gehe-Ichthyol	Unguentum Cordes®	16A083	2
Geibo/Ichthyol 12.8.19	Unguentum Cordes®	18A232	1
Geibo/Ichthyol 22.7.19	Unguentum Cordes®	18A111	1
Geibo/Ichthyol 24,11,2020	Unguentum Cordes®	20A0084	1
Geibo/Ichthyol 8.12.21	Unguentum Cordes®	21A0114	1
Geibo/Ichthyol 9.6.2020	Unguentum Cordes®	18A156	1
Geibo/Ichthyol	Unguentum Cordes®	17A084	1
Geibo/Ichthyol-Gesellsc...	Unguentum Cordes®	17A002	1
Geibo/Ichthyol-Gesellsc...	Unguentum Cordes®	17a045	1
Geibo/Ichthyol-Gesellsc...	Unguentum Cordes®	18A110	1
Geibo/Ichtyol	Unguentum Cordes®	18A110	1
Geibo/Ichtyol-Gesellsch...	Unguentum Cordes®	17A067	1
Geilenkirchen Ichtyol	Unguentum Cordes®	20A0049	1
Geilenkirchen	Hydrophobic base gel DAC	15064201	1
gepepharm GmbH	Eye paraffin	15441504	1
Gepepharm GmbH	Hydrophobic base gel DAC	20001966001	1
GUMO	Unguentum Cordes®	19A029	2
GUMO	Unguentum Cordes®	20A0051	1
GUMO	Unguentum Cordes®	20A0060	1
GUMO	Unguentum Cordes®	20A0093	1
GUMO	Unguentum Cordes®	20A0095	1
GUMO	Unguentum Cordes®	20A0097	1
GUMO	Unguentum Cordes®	20A0125	1
GUMO	Hydrophilic ointment DAB	21000365001	1
Gutenberg-Apotheke	Paraffin, white	13185502	1
H.Lamotte/Anzag 04.07.17	Hydrophilic ointment DAB	8002320009	6
H.Lamotte/Anzag 06.11.18	Hydrophilic ointment DAB	8004399001	4
H.Lamotte/Anzag 12.05.20	Hydrophilic ointment DAB	8005713006	3
H.Lamotte/Jenne	Paraffin, liquid	19004134	1
H.Lamotte/Jenne	Paraffin, liquid	20005329	2
Hanpu Pharm	Paraffin, white	4914987	1
Hänseler	Paraffin, white		3
Hansen &Rosenthal	Hydrophobic base gel DAC	1298590	1
Hansen &Rosenthal	Hydrophobic base gel DAC	1371621	1
Hansen und Rosenthal KG	Paraffin, white	42027	20
Hansen&Rosenthal/Phönix	Paraffin, white	1108046-01	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
HansenRosenthalKG/Hansen	Hydrophobic base gel DAC	1078667	1
harn	Unguentum Cordes®	17A069	1
Hedinger / Sanacorp	Wool alcohol ointment DAB	17104902	1
Hedinger/ Anzag	Paraffin, yellow	307079	1
Hedinger/ Gehe	Hydrophobic base gel DAC	17043604	1
Hedinger/Krieger	Unguentum Cordes®	16A048	1
Hedinger/Noweda	Paraffin, white	4-219072	1
hedinger/Noweda	Unguentum Cordes®	khuhfhk	1
Hedinger	Unguentum Cordes®	13A053	1
Hedinger	Paraffin, white	15060004	1
Hedinger	Paraffin, white	17106004	1
Hedinger	Paraffin, yellow	17223103	2
Heins	Hydrophobic base gel DAC	19253903	3
Henry Lamotte Oils GmbH	Paraffin, liquid	8003083001	1
Henry Lamote Oils GmbH	Hydrophilic ointment DAB	5860400	1
Henry Lamotte / Gehe	Hydrophilic ointment DAB	8002320009	1
Henry Lamotte /Noweda	Hydrophilic ointment DAB	5860400	1
Henry Lamotte GMBH/AHD	Paraffin, white	5691100	2
Henry Lamotte Oels GmbH	Wool alcohol ointment SR wit...	7A111214	2
Henry Lamotte Oil GmbH	Paraffin, liquid	1000010844	1
HENRY LAMOTTE OILS GMB/...	Paraffin, liquid	1000016200	1
Henry Lamotte Oils GmbH...	Hydrophilic ointment DAB	8003325012	1
Henry Lamotte Oils GmbH...	Hydrophilic ointment DAB	6001368013	1
Henry Lamotte Oils GmbH...	Paraffin, white	1705015-01	1
Henry Lamotte Oils GmbH...	Paraffin, white	8004538003	1
Henry Lamotte Oils GmbH...	Paraffin, white	8007175007	3
Henry Lamotte Oils GmbH...	Hydrophilic ointment DAB	8004399001	2
Henry Lamotte Oils GmbH...	Paraffin, liquid	1000014411	1
HENRY LAMOTTE OILS GmbH	Eye paraffin	17052001	1
Henry Lamotte Oils GmbH	Paraffin, white	5098800	2
Henry Lamotte Oils GmbH	Paraffin, white	5322600	1
Henry Lamotte Oils GmbH	Paraffin, white	5489700	3
henry lamotte oils gmbh	Paraffin, white	5538300	1
Henry Lamotte Oils GmbH	Paraffin, white	5538300	2
Henry Lamotte Oils GmbH	Paraffin, white	5691100	1
Henry Lamotte Oils GmbH	Hydrophilic ointment DAB	5860400	1
Henry Lamotte Oils GmbH	Wool alcohol ointment DAB	5860600	1
Henry Lamotte Oils Gmbh	Hydrophilic ointment DAB	5862400	1
Henry Lamotte Oils GmbH	Paraffin, white	6000083007	2
Henry Lamotte Oils GmbH	Hydrophilic ointment DAB	6001368013	2
Henry Lamotte oils GmbH	Hydrophilic ointment DAB	8002320009	5
Henry Lamotte Oils GmbH	Hydrophilic ointment DAB	8003325012	1
Henry Lamotte Oils GmbH	Hydrophilic ointment DAB	8004399001	1
Henry Lamotte oils GmbH	Hydrophilic ointment DAB	8005713006	3
Henry Lamotte Oils GmbH	Hydrophilic ointment DAB	8005713006	4
Henry Lamotte oils GmbH	Hydrophilic ointment DAB	805713006	1
Henry Lamotte Oils/Anzag	Paraffin, white	8004538003	2
Henry Lamotte Oils/GEHE	Paraffin, liquid	1000010844	2
Henry Lamotte Oils/Sana...	Paraffin, liquid	1000010844	1
Henry Lamotte Oils	Paraffin, white	16181904	1
Henry Lamotte Oils	Hydrophilic ointment DAB	5860400	2
Henry Lamotte/ AHD	Paraffin, white	6002062001	1
Henry Lamotte/ Noweda	Hydrophilic ointment DAB	6001368013	1
Henry Lamotte/AHD	Wool alcohol ointment DAB	17141202	1
Henry Lamotte/AHD	Paraffin, white	8004538003	3
Henry Lamotte/Anzag	Hydrophilic ointment DAB	2215M-02539	1
Henry Lamotte/Anzag	Hydrophilic ointment DAB	5321400	1
Henry Lamotte/Gehe	Paraffin, liquid	1000010844	2
Henry Lamotte/Gehe	Hydrophilic ointment DAB	20004177	1
Henry Lamotte/Gehe	Hydrophilic ointment DAB	20005190	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/N/14.12.12	Paraffin, white	5322600	1
Henry Lamotte/Noweda	Hydrophilic ointment DAB	6001368014	2
Henry Lamotte/Noweda	Hydrophilic ointment DAB	8002320009	1
Henry Lamotte/Phoenix	Hydrophilic ointment DAB	16282702	2
Henry Lamotte/Phoenix1	Wool alcohol ointment DAB	1695101	1
Henry Lamotte/Phönix	Paraffin, liquid	1000010844	3
Henry Lamotte/Phönix	Paraffin, liquid	8003083001	2
Henry Lamotte	Paraffin, white	1509019-01	1
Henry Lamotte	Unguentum Cordes®	16A102	1
Henry Lamotte	Eye paraffin	17052008	1
Henry Lamotte	Eye paraffin	17052012	1
Henry Lamotte	Hydrophilic ointment DAB	17330301	1
Henry Lamotte	Hydrophilic ointment DAB	5860500	3
Henry Lamotte	Hydrophilic ointment DAB	6001368014	2
Henry Lamotte	Hydrophilic ointment DAB	8002320009	2
Henry Lamotte	Paraffin, white	8002875007	1
Henry Lamotte	Paraffin, liquid	8003083001	3
Henry Lamotte	Hydrophilic ointment DAB	8005713007	1
Henry Lamotte	Hydrophilic ointment DAB	8005731006	1
Henry LamotteAlliance H...	Hydrophilic ointment DAB	8005713007	3
Henry	Hydrophilic ointment DAB	8002320009	1
HenryLamotte	Paraffin, white	6002062001	3
Herbasinica	Paraffin, white	13338712	1
Hermanni & Co GmbH	Unguentum Cordes®	18A10	2
Hermanni	Unguentum Cordes®	20A0049	1
HerryLamotte/AHD	Paraffin, white	5098800	1
Heyl	Unguentum Cordes®	17A008	1
hjahf	Unguentum Cordes®	19A004	1
Holdermann/Beiersdorf	Wool alcohol ointment DAB	22532710	1
Ich.Cordes	Unguentum Cordes®	17A045	2
Ich.Cordes	Unguentum Cordes®	17A084	1
Ichhyol Gesellschaft	Unguentum Cordes®	19A020	1
Ichhyol	Unguentum Cordes®	12A078	1
Ichhyol	Unguentum Cordes®	20A0028	1
Ichhyol	Unguentum Cordes®	20A0131	1
Ichhyol-Gesellschaft/Ge...	Unguentum Cordes®	20A0084	1
Ichhyol-Gesellschaft	Unguentum Cordes®	19a0153	1
Ichhyol-Gesellschaft	Unguentum Cordes®	20a0084	1
Ichhyol-Gesellschaft	Unguentum Cordes®	20a0105	1
Ichth/Noweda	Unguentum Cordes®	16A144	1
Ichthiol/Sanacorp	Unguentum Cordes®	17A202	1
Ichthiol	Unguentum Cordes®	13A110	1
Ichthiol	Unguentum Cordes®	2112212532	1
Ichthol Gesellschaft	Unguentum Cordes®	16A144	1
Ichthol Gesellschaft	Unguentum Cordes®	17A112	1
Ichthol Gesellschaft	Unguentum Cordes®	18A216	1
Ichthol/ gehe 31.01.19	Unguentum Cordes®	18A105	1
Ichthol/ Phönix	Unguentum Cordes®	10A070	1
Ichthol/Anzag	Unguentum Cordes®	16A102	1
Ichthol/Phönix	Unguentum Cordes®	19A006	1
Ichtholan Gesellschaft	Unguentum Cordes®	16A061	1
Ichtholan	Unguentum Cordes®	20A0049	1
Ichthol-Gesellschaft/Sa...	Unguentum Cordes®	15A037	1
Ichthtyol	Unguentum Cordes®	12a152	1
Ichthtyol	Unguentum Cordes®	12A185	1
Ichthtyol	Unguentum Cordes®	13A178	1
Ichthtyol	Unguentum Cordes®	15A089	1
Ichthy/Ebert	Unguentum Cordes®	20A0172	1
Ichthy	Unguentum Cordes®	12A185	1
Ichthyiol	Unguentum Cordes®	intern462	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyl / Phönix	Unguentum Cordes®	18A101	1
Ichthyl Gesellschaft / ...	Unguentum Cordes®	19A0183	1
Ichthyl Gesellschaft / ...	Unguentum Cordes®	20A0034	1
Ichthyl Gesellschaft / ...	Unguentum Cordes®	20A0111	1
Ichthyl Gesellschaft / ...	Unguentum Cordes®	20A0115	2
Ichthyl Gesellschaft / ...	Unguentum Cordes®	20A0152	2
Ichthyl Gesellschaft / ...	Unguentum Cordes®	20A0234	1
Ichthyl Gesellschaft / ...	Unguentum Cordes®	21A0150	1
Ichthyl Gesellschaft / ...	Unguentum Cordes®	21A0231	1
Ichthyl Gesellschaft / ...	Unguentum Cordes®	21A0057	1
Ichthyl Gesellschaft / ...	Unguentum Cordes®	20A0098	2
Ichthyl Gesellschaft	Unguentum Cordes®	17A142	1
Ichthyl Phönix	Unguentum Cordes®	12A129	1
Ichthyl Phönix	Unguentum Cordes®	13A053	1
Ichthyl/Phönix	Unguentum Cordes®	18A112	2
Ichthyl	Unguentum Cordes®	18A223	1
Ichthyl-Gesellschaft/Ph...	Unguentum Cordes®	15A141	1
Ichthylo Gesellschaft/N...	Unguentum Cordes®	18A110	1
ichthylo/Noweda	Unguentum Cordes®	20170920	1
Ichthylo-Gesellschaft/P...	Unguentum Cordes®	21A0056	1
Ichthyo/Phoenix	Unguentum Cordes®	18A256	1
Ichthyol /Gehe	Unguentum Cordes®	18A049	1
Ichthyol / Gehe	Unguentum Cordes®	10A111	1
Ichthyol / Gehe	Unguentum Cordes®	16A102	1
Ichthyol / Gehe	Unguentum Cordes®	17A005	1
Ichthyol - AHD	Unguentum Cordes®	18A166	1
ichthyol Alliance	Unguentum Cordes®	19A112	1
Ichthyol - Ges.	Unguentum Cordes®	20A0045	3
ICHTHYOL - GESELLSCHAFT...	Unguentum Cordes®	19A0181	1
Ichthyol - Gesellschaft	Unguentum Cordes®	11A085	1
ICHTHYOL - GESELLSCHAFT	Unguentum Cordes®	19A0256	1
ICHTHYOL - GESELLSCHAFT	Unguentum Cordes®	20A0030	1
Ichthyol Jenne	Unguentum Cordes®	12A211	1
ICHTHYOL / 20	Unguentum Cordes®	17A106	1
ICHTHYOL / 20	Unguentum Cordes®	18A166	1
ICHTHYOL / 20	Unguentum Cordes®	19A0181	1
ICHTHYOL / 20	Unguentum Cordes®	19A0182	1
ICHTHYOL / 20	Unguentum Cordes®	19A111	1
ICHTHYOL / 20	Unguentum Cordes®	20A0030	1
ICHTHYOL / 20	Unguentum Cordes®	20A0098	2
Ichthyol / AHD	Unguentum Cordes®	17A002	1
Ichthyol / Alliance HC	Unguentum Cordes®	20A0036	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	16A099	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	16A139	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	16A144	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	17A049	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	17A053	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	17A069	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	17A085	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	17A163	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	18A048	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	18A067	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	18A107	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	18A112	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	18A215	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	19A001	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	19A112	1
Ichthyol / Alliance Hea...	Unguentum Cordes®	19A128	1
Ichthyol / Alliance	Unguentum Cordes®	18A107	1
Ichthyol / Anzag	Unguentum Cordes®	1017Q-02532	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol / Anzag	Unguentum Cordes®	12A079	1
Ichthyol / Anzag	Unguentum Cordes®	18A110	1
Ichthyol / Anzag	Unguentum Cordes®	2019U-02532	1
Ichthyol / Anzag	Unguentum Cordes®	20A0084	1
Ichthyol / Anzag	Unguentum Cordes®	3018E-02532	1
Ichthyol / E	Unguentum Cordes®	14A079	1
Ichthyol / Ebert	Unguentum Cordes®	17A067	1
Ichthyol / Fiebig	Unguentum Cordes®	15A062	1
Ichthyol / Fiebig	Unguentum Cordes®	20A0028	1
Ichthyol / Fiebig	Unguentum Cordes®	20A0111	1
Ichthyol / Fiebig	Unguentum Cordes®	21A0055	1
Ichthyol / G	Unguentum Cordes®	15A020	1
Ichthyol / G	Unguentum Cordes®	16A184	1
Ichthyol / Gehe	Unguentum Cordes®	11A202	1
Ichthyol / Gehe	Unguentum Cordes®	12A102	1
Ichthyol / Gehe	Unguentum Cordes®	12A115	1
Ichthyol / Gehe	Unguentum Cordes®	12A152	2
Ichthyol / Gehe	Unguentum Cordes®	12A184	1
Ichthyol / Gehe	Unguentum Cordes®	13A042	1
Ichthyol / Gehe	Unguentum Cordes®	13A054	1
Ichthyol / Gehe	Unguentum Cordes®	13A068	2
Ichthyol / Gehe	Unguentum Cordes®	13A106	1
Ichthyol / Gehe	Unguentum Cordes®	13A138	1
Ichthyol / Gehe	Unguentum Cordes®	13A142	3
Ichthyol / Gehe	Unguentum Cordes®	13A153	1
Ichthyol / Gehe	Unguentum Cordes®	13A156	1
Ichthyol / Gehe	Unguentum Cordes®	13A166	1
Ichthyol / Gehe	Unguentum Cordes®	13A181	1
Ichthyol / Gehe	Unguentum Cordes®	15A162	1
Ichthyol / Gehe	Unguentum Cordes®	16A173	1
Ichthyol / GEHE	Unguentum Cordes®	17A004	1
Ichthyol / Gehe	Unguentum Cordes®	17A045	1
Ichthyol / Gehe	Unguentum Cordes®	17A049	2
Ichthyol / Gehe	Unguentum Cordes®	17A084	1
Ichthyol / Gehe	Unguentum Cordes®	17A106	2
Ichthyol / Gehe	Unguentum Cordes®	17A113	1
Ichthyol / Gehe	Unguentum Cordes®	18A049	1
Ichthyol / Gehe	Unguentum Cordes®	18A051	1
Ichthyol / Gehe	Unguentum Cordes®	18A067	1
Ichthyol / Gehe	Unguentum Cordes®	18A166	1
Ichthyol / Gehe	Unguentum Cordes®	18A191	1
Ichthyol / Gehe	Unguentum Cordes®	19A006	1
Ichthyol / Gehe	Unguentum Cordes®	19A008	1
Ichthyol / Gehe	Unguentum Cordes®	19A0256	1
Ichthyol / Gehe	Unguentum Cordes®	19A111	2
Ichthyol / Gehe	Unguentum Cordes®	20A0002	1
Ichthyol / Gehe	Unguentum Cordes®	20A0036	1
Ichthyol / Gehe	Unguentum Cordes®	20A0049	1
Ichthyol / Gehe	Unguentum Cordes®	20A0111	3
Ichthyol / Gehe	Unguentum Cordes®	20A0149	1
Ichthyol / Gehe	Unguentum Cordes®	20A0151	1
Ichthyol / Gehe	Unguentum Cordes®	20A0152	1
Ichthyol / Gehe	Unguentum Cordes®	21A0075	3
Ichthyol / Gehe	Unguentum Cordes®	21A0102	1
Ichthyol / Gehe	Unguentum Cordes®	21A0202	2
Ichthyol / Gehe	Unguentum Cordes®	21A0144	1
Ichthyol / Geibo	Unguentum Cordes®	16A140	1
Ichthyol / Geibo	Unguentum Cordes®	18A156	1
Ichthyol / Geibo	Unguentum Cordes®	18A224	1
Ichthyol / K	Unguentum Cordes®	15A191	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol / Krieger	Unguentum Cordes®	18A193	1
Ichthyol / Noweda	Unguentum Cordes®	11A042	1
Ichthyol / Noweda	Unguentum Cordes®	11A146	1
Ichthyol / Noweda	Unguentum Cordes®	12A152	2
Ichthyol / Noweda	Unguentum Cordes®	13A042	1
Ichthyol / Noweda	Unguentum Cordes®	13A043	1
Ichthyol / Noweda	Unguentum Cordes®	13A051	1
Ichthyol / Noweda	Unguentum Cordes®	14A172	1
Ichthyol / Noweda	Unguentum Cordes®	14A173	1
Ichthyol / Noweda	Unguentum Cordes®	14A179	1
Ichthyol / Noweda	Unguentum Cordes®	15A021	1
Ichthyol / Noweda	Unguentum Cordes®	15A073	3
Ichthyol / Noweda	Unguentum Cordes®	16A123	1
Ichthyol / Noweda	Unguentum Cordes®	16A140	1
Ichthyol / Noweda	Unguentum Cordes®	17A005	1
Ichthyol / Noweda	Unguentum Cordes®	17A143	1
Ichthyol / Noweda	Unguentum Cordes®	18A112	1
Ichthyol / Noweda	Unguentum Cordes®	18A156	1
Ichthyol / Noweda	Unguentum Cordes®	18A248	1
Ichthyol / Noweda	Unguentum Cordes®	19A007	1
Ichthyol / Noweda	Unguentum Cordes®	19A0153	1
Ichthyol / Noweda	Unguentum Cordes®	19A0256	1
Ichthyol / Noweda	Unguentum Cordes®	19A0257	1
Ichthyol / Noweda	Unguentum Cordes®	20A0034	1
Ichthyol / Noweda	Unguentum Cordes®	20A0211	1
Ichthyol / Phoenix Leip...	Unguentum Cordes®	12A118	1
Ichthyol / Phoenix	Unguentum Cordes®	15A123	2
Ichthyol / Phoenix	Unguentum Cordes®	15A125	1
Ichthyol / Phoenix	Unguentum Cordes®	16A099	1
Ichthyol / Phoenix	Unguentum Cordes®	16A139	1
Ichthyol / Phoenix	Unguentum Cordes®	17A069	1
Ichthyol / Phoenix	Unguentum Cordes®	17A084	1
Ichthyol / Phoenix	Unguentum Cordes®	17A106	1
Ichthyol / Phoenix	Unguentum Cordes®	18A110	1
Ichthyol / Phoenix	Unguentum Cordes®	18A113	1
Ichthyol / Phoenix	Unguentum Cordes®	18A130	1
Ichthyol / Phoenix	Unguentum Cordes®	20A0030	2
Ichthyol / Phoenix	Unguentum Cordes®	20A0098	1
Ichthyol / Phoenix	Unguentum Cordes®	20A0151	1
Ichthyol / Phoenix	Unguentum Cordes®	20A0234	1
Ichthyol / Phönix	Unguentum Cordes®	15A156	1
Ichthyol / Phönix	Unguentum Cordes®	16A122	1
Ichthyol / Phönix	Unguentum Cordes®	16A210	1
Ichthyol / Phönix	Unguentum Cordes®	17A007	1
Ichthyol / Phönix	Unguentum Cordes®	17A053	1
Ichthyol / Phönix	Unguentum Cordes®	17A06	1
Ichthyol / Phönix	Unguentum Cordes®	17A067	1
Ichthyol / Phönix	Unguentum Cordes®	17A098	1
Ichthyol / Phönix	Unguentum Cordes®	17A113	1
Ichthyol / Phönix	Unguentum Cordes®	17A127	1
Ichthyol / Phönix	Unguentum Cordes®	17A142	1
Ichthyol / Phönix	Unguentum Cordes®	17A164	1
Ichthyol / Phönix	Unguentum Cordes®	18A051	1
Ichthyol / Phönix	Unguentum Cordes®	18A223	3
Ichthyol / Phönix	Unguentum Cordes®	18A256	1
Ichthyol / Phönix	Unguentum Cordes®	19A0153	1
Ichthyol / Phönix	Unguentum Cordes®	19A0206	1
Ichthyol / Phönix	Unguentum Cordes®	19A021	1
Ichthyol / Phönix	Unguentum Cordes®	19A0256	1
Ichthyol / Phönix	Unguentum Cordes®	19A128	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol / Phönix	Unguentum Cordes®	20A0060	1
Ichthyol / Phönix	Unguentum Cordes®	20A0084	1
Ichthyol / Phönix	Unguentum Cordes®	20A0092	1
Ichthyol / Phönix	Unguentum Cordes®	21A0086	1
Ichthyol / Phönix	Unguentum Cordes®	21A0163	1
Ichthyol / Sanacorp 27....	Unguentum Cordes®	17A128	1
Ichthyol / Sanacorp	Unguentum Cordes®	12A183	1
Ichthyol / Sanacorp	Unguentum Cordes®	14A117	1
Ichthyol / Sanacorp	Unguentum Cordes®	14A172	1
Ichthyol / Sanacorp	Unguentum Cordes®	15A062	1
Ichthyol / Sanacorp	Unguentum Cordes®	15A107	1
Ichthyol / Sanacorp	Unguentum Cordes®	15A156	1
Ichthyol / Sanacorp	Wool alcohol ointment DAB	17141203	3
Ichthyol / Sanacorp	Unguentum Cordes®	18A111	1
Ichthyol / Sanacorp	Unguentum Cordes®	18A156	1
Ichthyol / Sanacorp	Unguentum Cordes®	18A192	1
Ichthyol / Sanacorp	Unguentum Cordes®	19A0153	1
Ichthyol / Sanacorp	Unguentum Cordes®	20A0151	1
Ichthyol / Sanacorp	Unguentum Cordes®	21A0075	1
ichthyol /2	Unguentum Cordes®	18A191	1
ichthyol /2	Unguentum Cordes®	19A128	1
ichthyol /2	Unguentum Cordes®	20A0036	1
Ichthyol /AHD	Unguentum Cordes®	15A155	1
Ichthyol /Anzag	Unguentum Cordes®	220209(21A0151)	1
Ichthyol /Anzag	Unguentum Cordes®	62(18A051)	1
Ichthyol /Anzag	Unguentum Cordes®	63(18A107)	1
Ichthyol /Anzag	Unguentum Cordes®	64(18A130)	1
Ichthyol /Anzag	Unguentum Cordes®	65(18A166)	1
Ichthyol /Anzag	Unguentum Cordes®	70(20A0036)	1
Ichthyol /Anzag	Unguentum Cordes®	71(20A0036)	1
Ichthyol /Anzag	Unguentum Cordes®	72(20A0152)	1
Ichthyol /Anzag	Unguentum Cordes®	73(20A0211)	1
Ichthyol /Gehe	Unguentum Cordes®	17A087	1
Ichthyol /Gehe	Unguentum Cordes®	18A112	1
Ichthyol /Gehe	Unguentum Cordes®	18A232	1
Ichthyol /Jenne	Unguentum Cordes®	220428(21A0201)	1
Ichthyol /Jenne	Unguentum Cordes®	66(18A248)	1
Ichthyol /Noweda	Unguentum Cordes®	117A003	1
Ichthyol /Noweda	Unguentum Cordes®	12A118	1
Ichthyol /Noweda	Unguentum Cordes®	12A152	1
Ichthyol /Noweda	Unguentum Cordes®	13A067	1
Ichthyol /Noweda	Unguentum Cordes®	13A090	2
Ichthyol /Noweda	Unguentum Cordes®	13A181	1
Ichthyol /Noweda	Unguentum Cordes®	15A060	1
Ichthyol /Noweda	Unguentum Cordes®	15a073	1
Ichthyol /Noweda	Unguentum Cordes®	15A123	3
Ichthyol /Noweda	Unguentum Cordes®	15A148	1
Ichthyol /Noweda	Unguentum Cordes®	15A159	1
Ichthyol /Noweda	Unguentum Cordes®	15A191	1
Ichthyol /Noweda	Unguentum Cordes®	16A085	1
Ichthyol /Noweda	Unguentum Cordes®	17A007	1
Ichthyol /Noweda	Unguentum Cordes®	17A067	1
Ichthyol /Noweda	Unguentum Cordes®	17A084	1
Ichthyol /Noweda	Unguentum Cordes®	18A110	1
Ichthyol /Noweda	Unguentum Cordes®	18A113	1
Ichthyol /Noweda	Unguentum Cordes®	18A156	1
Ichthyol /Noweda	Unguentum Cordes®	19A0154	1
Ichthyol /Noweda	Unguentum Cordes®	20A0049	1
Ichthyol /Noweda	Unguentum Cordes®	20A0105	1
Ichthyol /Phoenix	Unguentum Cordes®	19A0256	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol /Phönix	Unguentum Cordes®	20A0084	2
Ichthyol /Phönix	Unguentum Cordes®	20A0105	1
Ichthyol /Sanacorp	Unguentum Cordes®	18A067	1
Ichthyol /Sanacorp	Unguentum Cordes®	18A190	1
Ichthyol /Sanacorp	Unguentum Cordes®	19A111	1
Ichthyol 07.03.2013 Spa...	Unguentum Cordes®	12A102	1
Ichthyol AG / Alliance ...	Unguentum Cordes®	17A002	1
Ichthyol AG / Anzag	Unguentum Cordes®	16A085	2
Ichthyol Anzag	Unguentum Cordes®	18A166	1
Ichthyol Anzag	Unguentum Cordes®	18A216	1
Ichthyol Anzag	Unguentum Cordes®	19A004	1
Ichthyol cordes / Noweda	Unguentum Cordes®	14A079	1
Ichthyol Cordes/Gehe	Unguentum Cordes®	17A005	1
Ichthyol Cordes/Gehe	Unguentum Cordes®	17A045	1
Ichthyol Cordes/Gehe	Unguentum Cordes®	17A087	1
Ichthyol Cordes/Gehe	Unguentum Cordes®	18A110	1
Ichthyol Cordes/Gehe	Unguentum Cordes®	19A0154	1
Ichthyol Cordes/Gehe	Unguentum Cordes®	20A0084	1
Ichthyol Cordes/Gehe	Unguentum Cordes®	20A0105	1
Ichthyol Cordes/Gehe	Unguentum Cordes®	20A0153	1
Ichthyol Cordes/Noweda ...	Unguentum Cordes®	20A0131	1
Ichthyol Cordes/Noweda2...	Unguentum Cordes®	21A0055	1
Ichthyol Cordes	Unguentum Cordes®	12A075	1
Ichthyol G/Alliance	Unguentum Cordes®	18A051	1
Ichthyol G/Alliance	Unguentum Cordes®	18A131	1
Ichthyol G/Noweda	Unguentum Cordes®	17A053	1
Ichthyol G/Noweda	Unguentum Cordes®	17A056	1
Ichthyol GEHE	Unguentum Cordes®	17A054	1
Ichthyol Gehe	Unguentum Cordes®	20A0051	1
Ichthyol Ges. / Gehe	Unguentum Cordes®	17A069	1
Ichthyol Ges. / Gehe	Unguentum Cordes®	18A224	1
Ichthyol Ges./Sanac	Unguentum Cordes®	17A101	1
Ichthyol Ges./Sanac	Unguentum Cordes®	18A048	1
Ichthyol Ges./Sanac	Unguentum Cordes®	18A216	1
Ichthyol Ges./Sanac	Unguentum Cordes®	19A006	1
Ichthyol Ges./Sanac	Unguentum Cordes®	19A0183	1
Ichthyol Ges./Sanac	Unguentum Cordes®	20A0030	1
Ichthyol ges	Unguentum Cordes®	15A191	1
Ichthyol ges	Unguentum Cordes®	16A083	1
Ichthyol ges	Unguentum Cordes®	16A099	1
Ichthyol ges	Unguentum Cordes®	16A101	2
Ichthyol Gesellsch./Now...	Unguentum Cordes®	20a0453	1
Ichthyol Gesellsch./Pho...	Unguentum Cordes®	15A123	1
Ichthyol Gesellsch./Pho...	Unguentum Cordes®	16A183	1
Ichthyol Gesellsch.	Unguentum Cordes®	17A003	1
Ichthyol Gesellsch.	Unguentum Cordes®	17A067	1
Ichthyol Gesellsch.	Unguentum Cordes®	18A110	1
Ichthyol Gesellsch.	Unguentum Cordes®	19A0153	1
Ichthyol Gesellsch-/Phö...	Unguentum Cordes®	15A042	1
Ichthyol Gesellsch-/Phö...	Unguentum Cordes®	15A159	1
ichthyol gesellschaft ...	Unguentum Cordes®	20A0045	1
ICHTHYOL- Gesellschaft ...	Unguentum Cordes®	19A0154	1
Ichthyol Gesellschaft /...	Unguentum Cordes®		1
Ichthyol Gesellschaft /...	Unguentum Cordes®	15A125	1
Ichthyol Gesellschaft /...	Unguentum Cordes®	171107UC/17A109	1
Ichthyol Gesellschaft /...	Unguentum Cordes®	17A085	1
Ichthyol Gesellschaft /...	Unguentum Cordes®	18A156	2
Ichthyol Gesellschaft /...	Unguentum Cordes®	17A101	1
ICHTHYOL Gesellschaft /...	Unguentum Cordes®	15A020	1
Ichthyol Gesellschaft /...	Unguentum Cordes®	17A045	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
ICHTHYOL GESELLSCHAFT /...	Unguentum Cordes®	18A224	1
Ichthyol Gesellschaft /...	Unguentum Cordes®	21A0075	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	18A113	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	20A0045	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	11A171	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	11A233	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A041	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A054	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A058	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A077	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A079	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A129	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A130	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A156	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A206	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	13A031	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	13A034	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	13A050	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	13A051	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	13A054	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	13A055	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A062	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	19A0153	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	16A058	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	12A184	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A079	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	18A113	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	18A112	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	19A0149	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	17A003	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	17A045	1
Ichthyol Gesellschaft C...	Unguentum Cordes®		1
ichthyol- gesellschaft ...	Unguentum Cordes®	11A202	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	13A166	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A056	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A060	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A062	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A063	2
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A079	3
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A095	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A113	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A116	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A130	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	14A168	1
Ichthyol- Gesellschaft ...	Unguentum Cordes®	14A172	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A021	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A027	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A038	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A060	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A061	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A076	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A079	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A080	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A090	2
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A092	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A137	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A140	2
Ichthyol Gesellschaft C...	Unguentum Cordes®	15A150	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	16A047	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	16a099	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol Gesellschaft C...	Unguentum Cordes®	16A099	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	16A121	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	16A140	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	16A184	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	17A003	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	17A004	2
Ichthyol Gesellschaft C...	Unguentum Cordes®	17A007	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	17A045	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	17A085	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	17A087	1
Ichthyol- Gesellschaft ...	Unguentum Cordes®	17A142	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	18A110	3
Ichthyol Gesellschaft C...	Unguentum Cordes®	18A112	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	19A0257	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	20A0030	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	20A0105	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	20A0150	1
Ichthyol Gesellschaft C...	Unguentum Cordes®	21A0144	1
Ichthyol Gesellschaft H...	Unguentum Cordes®	18A223	1
Ichthyol Gesellschaft- ...	Unguentum Cordes®	15A192	1
ICHTHYOL GESELLSCHAFT -...	Unguentum Cordes®	CHB17A087	1
Ichthyol Gesellschaft- ...	Unguentum Cordes®	16A099	1
Ichthyol Gesellschaft, ...	Unguentum Cordes®	18A111	2
Ichthyol Gesellschaft, ...	Unguentum Cordes®	18A223	2
Ichthyol Gesellschaft, ...	Unguentum Cordes®	18A224	2
Ichthyol Gesellschaft, ...	Unguentum Cordes®	20A0084	2
Ichthyol Gesellschaft, ...	Unguentum Cordes®	20A0105	4
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	15A087	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	18A110	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	21A0184	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	14A047	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	17A084	2
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	18A224	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	18A248	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	19A008	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	19A020	1
ichthyol gesellschaft/ ...	Unguentum Cordes®	17a003	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	16A141	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	13A181	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	15A090	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	16A102	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	16A144	1
ICHTHYOL- Gesellschaft/...	Unguentum Cordes®	18A101	1
ICHTHYOL- Gesellschaft/...	Unguentum Cordes®	18A113	1
Ichthyol Gesellschaft/ ...	Unguentum Cordes®	20A0153	1
Ichthyol- Gesellschaft/...	Unguentum Cordes®	19A0183	1
Ichthyol- Gesellschaft/...	Unguentum Cordes®	19A0184	1
Ichthyol Gesellschaft/AHD	Unguentum Cordes®	13A180	1
Ichthyol Gesellschaft/AHD	Unguentum Cordes®	17A054	1
Ichthyol Gesellschaft/AHD	Unguentum Cordes®	19A0256	1
Ichthyol Gesellschaft/A...	Unguentum Cordes®	18A223	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	18A130	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	20A0098	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	17A113	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	17A049	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	18A067	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	19A001	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	19A0181	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	19A0257	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	20A0045	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol Gesellschaft/C...	Unguentum Cordes®	20A0150	1
Ichthyol Gesellschaft/C...	Unguentum Cordes®	21A0055	1
Ichthyol Gesellschaft/G...	Unguentum Cordes®	13A089	1
Ichthyol Gesellschaft/G...	Unguentum Cordes®	16A141	1
ICHTHYOL- GESELLSCHAFT/...	Unguentum Cordes®	17A045	1
Ichthyol Gesellschaft/G...	Unguentum Cordes®	17A087	1
Ichthyol Gesellschaft/G...	Unguentum Cordes®	18A049	1
ICHTHYOL- GESELLSCHAFT/...	Unguentum Cordes®	18A156	1
Ichthyol Gesellschaft/G...	Unguentum Cordes®	19A008	1
Ichthyol Gesellschaft/J...	Unguentum Cordes®	19A008	1
Ichthyol Gesellschaft/J...	Unguentum Cordes®	20A0126	1
Ichthyol- Gesellschaft/...	Unguentum Cordes®	18A223	1
Ichthyol- Gesellschaft/...	Unguentum Cordes®	18A224	2
Ichthyol Gesellschaft/K...	Unguentum Cordes®	20A0002	1
Ichthyol Gesellschaft/K...	Unguentum Cordes®	18A110	1
Ichthyol Gesellschaft/N...	Unguentum Cordes®	13A067	1
Ichthyol Gesellschaft/N...	Unguentum Cordes®	16a011	1
Ichthyol Gesellschaft/N...	Unguentum Cordes®	16A101	1
Ichthyol Gesellschaft/N...	Unguentum Cordes®	17A142	1
ICHTHYOL Gesellschaft/N...	Unguentum Cordes®	18A156	2
Ichthyol Gesellschaft/N...	Unguentum Cordes®	18A190	1
Ichthyol Gesellschaft/N...	Unguentum Cordes®	19A0153	1
Ichthyol Gesellschaft/N...	Unguentum Cordes®	19A0183	1
Ichthyol Gesellschaft/N...	Unguentum Cordes®	20A0034	1
Ichthyol Gesellschaft/N...	Unguentum Cordes®	20A0036	1
Ichthyol Gesellschaft/N...	Unguentum Cordes®	20A0152	1
Ichthyol Gesellschaft/P...	Unguentum Cordes®	18A049	1
Ichthyol Gesellschaft/P...	Unguentum Cordes®	18A215	1
Ichthyol Gesellschaft/P...	Unguentum Cordes®	19A006	1
Ichthyol Gesellschaft/P...	Unguentum Cordes®	19A0184	1
Ichthyol Gesellschaft/P...	Unguentum Cordes®	19A112	1
Ichthyol- Gesellschaft/...	Unguentum Cordes®	14A095	1
Ichthyol Gesellschaft/P...	Unguentum Cordes®	16A184	1
Ichthyol Gesellschaft/P...	Unguentum Cordes®	21A0058	1
Ichthyol Gesellschaft/P...	Unguentum Cordes®	21A0075	1
Ichthyol Gesellschaft/S...	Unguentum Cordes®	15A060	2
Ichthyol Gesellschaft/S...	Unguentum Cordes®	18A105	1
Ichthyol Gesellschaft	Unguentum Cordes®	11A202	1
Ichthyol Gesellschaft	Unguentum Cordes®	11A234	1
Ichthyol Gesellschaft	Unguentum Cordes®	12A058	1
Ichthyol -Gesellschaft	Unguentum Cordes®	12A064	1
Ichthyol Gesellschaft	Unguentum Cordes®	12A087	1
Ichthyol Gesellschaft	Unguentum Cordes®	12A152	1
Ichthyol Gesellschaft	Unguentum Cordes®	12A183	1
ichthyol gesellschaft	Unguentum Cordes®	13A051	1
ichthyol gesellschaft	Unguentum Cordes®	13A055	1
Ichthyol Gesellschaft	Unguentum Cordes®	13A055	1
Ichthyol -Gesellschaft	Unguentum Cordes®	13A091	1
Ichthyol Gesellschaft	Unguentum Cordes®	13A135	1
Ichthyol Gesellschaft	Unguentum Cordes®	13A156	1
Ichthyol Gesellschaft	Unguentum Cordes®	13A159	1
Ichthyol Gesellschaft	Unguentum Cordes®	13A170	1
Ichthyol Gesellschaft	Unguentum Cordes®	13A171	1
Ichthyol Gesellschaft	Unguentum Cordes®	13A172	1
Ichthyol -Gesellschaft	Unguentum Cordes®	13A181	1
Ichthyol Gesellschaft	Unguentum Cordes®	14A061	2
Ichthyol Gesellschaft	Unguentum Cordes®	14A140	1
ichthyol gesellschaft	Unguentum Cordes®	14A143	1
Ichthyol Gesellschaft	Unguentum Cordes®	14A173	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A011	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol Gesellschaft	Unguentum Cordes®	15A020	1
ichthyol gesellschaft	Unguentum Cordes®	15A022	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A022	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A036	1
ichthyol gesellschaft	Unguentum Cordes®	15A041	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A041	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A074	1
ichthyol gesellschaft	Unguentum Cordes®	15A076	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A106	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A107	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A124	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A137	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A142	1
Ichthyol- Gesellschaft	Unguentum Cordes®	15A149	1
ichthyol gesellschaft	Unguentum Cordes®	15A159	1
Ichthyol Gesellschaft	Unguentum Cordes®	15A159	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A010	1
ichthyol gesellschaft	Unguentum Cordes®	16A011	1
Ichthyol gesellschaft	Unguentum Cordes®	16A044	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A061	1
Ichthyol- Gesellschaft	Unguentum Cordes®	16A083	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A099	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A101	3
Ichthyol Gesellschaft	Unguentum Cordes®	16A102	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A119	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A122	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A123	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A124	3
Ichthyol Gesellschaft	Unguentum Cordes®	16A139	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A140	1
ichthyol gesellschaft	Unguentum Cordes®	16A143	1
Ichthyol- Gesellschaft	Unguentum Cordes®	16A155	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A173	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A176	1
Ichthyol Gesellschaft	Unguentum Cordes®	16A184	2
Ichthyol Gesellschaft	Unguentum Cordes®	17A003	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A004	1
Ichthyol gesellschaft	Unguentum Cordes®	17A005	1
ICHTHYOL GESELLSCHAFT	Unguentum Cordes®	17A005	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A007	2
Ichthyol- Gesellschaft	Unguentum Cordes®	17A007	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A045	3
Ichthyol- Gesellschaft	Unguentum Cordes®	17A045	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A049	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A051	3
ichthyol gesellschaft	Unguentum Cordes®	17A054	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A057	1
ichthyol gesellschaft	Unguentum Cordes®	17A069	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A069	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A084	4
Ichthyol- Gesellschaft	Unguentum Cordes®	17A084	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A085	2
ICHTHYOL GESELLSCHAFT	Unguentum Cordes®	17A085	2
ichthyol Gesellschaft	Unguentum Cordes®	17A087	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A087	2
Ichthyol Gesellschaft	Unguentum Cordes®	17A104	1
ichthyol gesellschaft	Unguentum Cordes®	17A105	2
Ichthyol Gesellschaft	Unguentum Cordes®	17A106	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A126	1
Ichthyol Gesellschaft	Unguentum Cordes®	17A127	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol Gesellschaft	Unguentum Cordes®	17A163	2
Ichthyol Gesellschaft	Unguentum Cordes®	18A049	1
ichthyol Gesellschaft	Unguentum Cordes®	18A050	1
Ichthyol Gesellschaft	Unguentum Cordes®	18A070	1
Ichthyol Gesellschaft	Unguentum Cordes®	18A101	1
ichthyol Gesellschaft	Unguentum Cordes®	18A110	1
Ichthyol Gesellschaft	Unguentum Cordes®	18A110	2
Ichthyol Gesellschaft	Unguentum Cordes®	18A112	2
Ichthyol- Gesellschaft	Unguentum Cordes®	18A112	1
ICHTHYOL GESELLSCHAFT	Unguentum Cordes®	18A112	1
Ichthyol Gesellschaft	Unguentum Cordes®	18a113	1
Ichthyol Gesellschaft	Unguentum Cordes®	18A113	1
ichthyol Gesellschaft	Unguentum Cordes®	18a130	1
Ichthyol Gesellschaft	Unguentum Cordes®	18A132	1
Ichthyol Gesellschaft	Unguentum Cordes®	18A156	2
ICHTHYOL GESELLSCHAFT	Unguentum Cordes®	18A156	1
Ichthyol- Gesellschaft	Unguentum Cordes®	18A223	1
Ichthyol Gesellschaft	Unguentum Cordes®	18A232	2
Ichthyol- Gesellschaft	Unguentum Cordes®	18A248	1
Ichthyol Gesellschaft	Unguentum Cordes®	18A253	1
Ichthyol Gesellschaft	Unguentum Cordes®	19A003	1
ichthyol Gesellschaft	Unguentum Cordes®	19A004	1
Ichthyol Gesellschaft	Unguentum Cordes®	19A005	1
Ichthyol Gesellschaft	Unguentum Cordes®	19A007	1
Ichthyol Gesellschaft	Unguentum Cordes®	19A0181	2
Ichthyol- Gesellschaft	Unguentum Cordes®	19A0256	1
Ichthyol Gesellschaft	Unguentum Cordes®	19A112	2
Ichthyol Gesellschaft	Unguentum Cordes®	20A0034	1
Ichthyol Gesellschaft	Unguentum Cordes®	20A0060	1
Ichthyol Gesellschaft	Unguentum Cordes®	20A0173	1
Ichthyol Gesellschaft	Unguentum Cordes®	20A0192	1
Ichthyol- Gesellschaft	Unguentum Cordes®	21A0057	1
Ichthyol Gesellschaft	Unguentum Cordes®	21A0064	1
Ichthyol Gesellschaft	Unguentum Cordes®	21A0102	1
Ichthyol Gesellschaft-C...	Unguentum Cordes®	16A085	1
Ichthyol Gesellschaft-C...	Unguentum Cordes®	17A084	2
Ichthyol Gesellschasft/...	Unguentum Cordes®	20A0173	1
Ichthyol Gesellschft/Ph...	Unguentum Cordes®	19A0183	2
Ichthyol Gesellschft/Ph...	Unguentum Cordes®	20A0036	1
Ichthyol Gesellschft/Ph...	Unguentum Cordes®	20A0115	1
Ichthyol Gesellschft/Ph...	Unguentum Cordes®	20A0150	1
Ichthyol Gesellschft/Ph...	Unguentum Cordes®	20A0151	1
Ichthyol Gesellschft	Unguentum Cordes®	17A056	1
Ichthyol Gesellschft	Unguentum Cordes®	17A113	1
Ichthyol Gesellschft	Unguentum Cordes®	18A001	1
Ichthyol Gesellschft	Unguentum Cordes®	18A190	1
Ichthyol Gesellschft	Unguentum Cordes®	19A008	1
Ichthyol Geselschaft Co...	Unguentum Cordes®	18A113	1
Ichthyol Gesllschaft/Ph...	Unguentum Cordes®	18A048	1
Ichthyol Gesllschaft	Unguentum Cordes®	15A093	1
Ichthyol Gesllschaft	Unguentum Cordes®	16A045	1
Ichthyol GmbH/ Jenne	Unguentum Cordes®	17A085	1
Ichthyol GmbH/ Jenne	Unguentum Cordes®	18A113	2
Ichthyol GmbH/Alliance	Unguentum Cordes®	15A124	1
Ichthyol GmbH/Noweda	Unguentum Cordes®	16A061	2
Ichthyol GmbH/Noweda	Unguentum Cordes®	17A002	1
Ichthyol GmbH/Noweda	Unguentum Cordes®	17A003	1
Ichthyol GmbH/Noweda	Unguentum Cordes®	19A0153	2
Ichthyol GmbH/Noweda	Unguentum Cordes®	20A0153	1
Ichthyol gmbH/Phönix	Unguentum Cordes®	20A0090	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol gmbH/Phönix	Unguentum Cordes®	20A0105	1
Ichthyol gmbH/Phönix	Unguentum Cordes®	21A0163	1
Ichthyol GmBH	Unguentum Cordes®	13A137	1
Ichthyol GmBH	Unguentum Cordes®	15A041	1
Ichthyol gmbH	Unguentum Cordes®	15A107	1
Ichthyol GmBH	Unguentum Cordes®	16A045	1
Ichthyol gmbH	Unguentum Cordes®	17a003	1
Ichthyol gmbH	Unguentum Cordes®	18A111	1
Ichthyol GmbH	Unguentum Cordes®	18A224	1
Ichthyol GmbH	Unguentum Cordes®	18A232	1
ichthyol gmbh	Unguentum Cordes®	19a0153	1
Ichthyol GmbH	Unguentum Cordes®	19A111	1
Ichthyol GmbH	Unguentum Cordes®	19A112	1
Ichthyol GmbH	Unguentum Cordes®	21A0102	1
ichthyol Hermanni	Unguentum Cordes®	19A0154	1
Ichthyol Noweda	Unguentum Cordes®	18A113	1
Ichthyol Noweda	Unguentum Cordes®	19A128	1
Ichthyol PH	Unguentum Cordes®	17A126	1
Ichthyol PH	Unguentum Cordes®	18A105	2
Ichthyol PH	Unguentum Cordes®	19A003	1
Ichthyol PH	Unguentum Cordes®	19A0181	1
Ichthyol PH	Unguentum Cordes®	19A0256	1
Ichthyol Pharma	Unguentum Cordes®	15A011	1
Ichthyol Pharma	Unguentum Cordes®	15A042	1
Ichthyol Pharma	Unguentum Cordes®	15A139	1
Ichthyol Pharma	Unguentum Cordes®	15A141	1
Ichthyol Pharma	Unguentum Cordes®	15A155	1
Ichthyol Phönix	Unguentum Cordes®	17A002	2
Ichthyol Phönix	Unguentum Cordes®	17A106	1
Ichthyol Phönix	Unguentum Cordes®	17A164	1
Ichthyol Phönix	Unguentum Cordes®	18A048	1
Ichthyol Phönix	Unguentum Cordes®	18A067	1
Ichthyol Phönix	Unguentum Cordes®	18A131	1
Ichthyol Phönix	Unguentum Cordes®	19A004	1
Ichthyol Phönix	Unguentum Cordes®	19A0262	1
ichthyol über Noweda 17...	Unguentum Cordes®	19A029P-200320-3	1
Ichthyol über Phoenix	Unguentum Cordes®	13A166	1
Ichthyol über Phoenix	Unguentum Cordes®	14A062	1
Ichthyol über Phoenix	Unguentum Cordes®	14A114	1
Ichthyol über Phoenix	Unguentum Cordes®	15A042	1
Ichthyol über Phoenix	Unguentum Cordes®	15A092	1
Ichthyol über Phoenix	Unguentum Cordes®	15A142	1
Ichthyol über Phoenix	Unguentum Cordes®	16A044	1
Ichthyol über Phoenix	Unguentum Cordes®	16A058	1
Ichthyol über Phoenix	Unguentum Cordes®	16A119	1
Ichthyol über Phönix	Unguentum Cordes®	19A006	1
Ichthyol über Phönix	Unguentum Cordes®	19A0262	1
Ichthyol über Phönix	Unguentum Cordes®	21A0056	1
Ichthyol, Cordes/ Kehr,...	Unguentum Cordes®	19A0184	1
Ichthyol, Cordes/ Kehr,...	Unguentum Cordes®	19A003	1
Ichthyol, Noweda	Unguentum Cordes®	15A023	1
Ichthyol, Sanacorp	Unguentum Cordes®	18A111	1
Ichthyol, Sanacorp	Unguentum Cordes®	18A223	1
Ichthyol, Sanacorp	Unguentum Cordes®	19A020	1
Ichthyol, Sanacorp	Unguentum Cordes®	20A0028	1
Ichthyol, Sanacorp	Unguentum Cordes®	20A0111	1
ichthyol,Anzag	Unguentum Cordes®	12A124	1
Ichthyol,Cordes/Kehr 30...	Unguentum Cordes®	20A0030	1
Ichthyol,Noweda	Unguentum Cordes®	12A142	1
Ichthyol,Noweda	Unguentum Cordes®	13a009	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/ AHD	Unguentum Cordes®	15A091	1
Ichthyol/ AHD	Unguentum Cordes®	18A051	1
Ichthyol/ Alliance Heal...	Unguentum Cordes®	17A003	1
Ichthyol/ Alliance	Unguentum Cordes®	17A084	1
Ichthyol/ Alliance	Unguentum Cordes®	22A0025	2
Ichthyol/ Anzag	Unguentum Cordes®	15A139	1
Ichthyol/ Anzag	Unguentum Cordes®	15A141	2
Ichthyol/ Anzag	Unguentum Cordes®	15A155	1
Ichthyol/ Anzag	Unguentum Cordes®	16A046	2
Ichthyol/ Anzag	Unguentum Cordes®	16A119	1
Ichthyol/ Anzag	Unguentum Cordes®	16A141	1
Ichthyol/ Anzag	Unguentum Cordes®	16A155	2
Ichthyol/ Anzag	Unguentum Cordes®	17A005	1
Ichthyol/ Anzag	Unguentum Cordes®	17A049	1
Ichthyol/ Anzag	Unguentum Cordes®	17A126	1
Ichthyol/ Anzag	Unguentum Cordes®	18A048	1
Ichthyol/ Anzag	Unguentum Cordes®	18A067	1
Ichthyol/ Anzag	Unguentum Cordes®	18A105	3
Ichthyol/ Anzag	Unguentum Cordes®	18A113	1
Ichthyol/ Anzag	Unguentum Cordes®	18A130	1
Ichthyol/ Anzag	Unguentum Cordes®	18A131	1
Ichthyol/ Anzag	Unguentum Cordes®	18A166	1
Ichthyol/ Anzag	Unguentum Cordes®	19A0183	1
Ichthyol/ Anzag	Unguentum Cordes®	19A0184	2
Ichthyol/ Anzag	Unguentum Cordes®	19A0262	1
Ichthyol/ Anzag	Unguentum Cordes®	20A0111	1
Ichthyol/ Anzag	Unguentum Cordes®	20A0131	1
Ichthyol/ Anzag	Unguentum Cordes®	21A0055	1
Ichthyol/ Cordes	Unguentum Cordes®	12A139	1
Ichthyol/ Cordes	Unguentum Cordes®	12A205	1
Ichthyol/ E+J	Unguentum Cordes®	17A009	1
Ichthyol/ E+J	Unguentum Cordes®	17A192	1
Ichthyol/ E+J	Unguentum Cordes®	18A005	1
Ichthyol/ Fiebig	Unguentum Cordes®	16A124	1
Ichthyol/ Fiebig	Unguentum Cordes®	17A1050	1
Ichthyol/ Gehe	Unguentum Cordes®	14A056	1
Ichthyol/ Gehe	Unguentum Cordes®	15A020	2
Ichthyol/ Gehe	Unguentum Cordes®	16A139	1
Ichthyol/ Gehe	Unguentum Cordes®	18A156	1
Ichthyol/ GEHE	Unguentum Cordes®	18A223	1
Ichthyol/ Gehe	Unguentum Cordes®	19A0154	1
Ichthyol/ Gehe	Unguentum Cordes®	19AO154	1
Ichthyol/ Gehe	Unguentum Cordes®	20A0030	1
Ichthyol/ Gehe	Unguentum Cordes®	20A0084	1
Ichthyol/ Gehe	Unguentum Cordes®	20A0105	1
Ichthyol/ Gehe	Unguentum Cordes®	21A0164	1
Ichthyol/ Geiki	Unguentum Cordes®	18A147	1
Ichthyol/ Gotha	Unguentum Cordes®	16A176	1
Ichthyol/ Gotha	Unguentum Cordes®	17A112	1
Ichthyol/ Jenne	Unguentum Cordes®	19A026	1
Ichthyol/ Krieger	Unguentum Cordes®	16A044	1
Ichthyol/ Krieger	Unguentum Cordes®	16A139	1
Ichthyol/ Krieger	Unguentum Cordes®	17A128	1
Ichthyol/ Krieger	Unguentum Cordes®	17A163	1
Ichthyol/ Krieger	Unguentum Cordes®	18A191	1
Ichthyol/ Krieger	Unguentum Cordes®	18A215	1
Ichthyol/ Krieger	Unguentum Cordes®	21A0075	1
Ichthyol/ Now	Unguentum Cordes®	16A144	1
Ichthyol/ Now	Unguentum Cordes®	16A210	1
Ichthyol/ Now	Unguentum Cordes®	18A070	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/ Now	Unguentum Cordes®	18A223	1
Ichthyol/ Now	Unguentum Cordes®	19A006	1
Ichthyol/ Now	Unguentum Cordes®	19A256	1
Ichthyol/ Noweda	Unguentum Cordes®	12A053	1
Ichthyol/ Noweda	Unguentum Cordes®	12A183	1
Ichthyol/ Noweda	Unguentum Cordes®	13A034	1
Ichthyol/ Noweda	Unguentum Cordes®	13A043	1
Ichthyol/ Noweda	Unguentum Cordes®	13A067	1
Ichthyol/ Noweda	Unguentum Cordes®	14A099	1
Ichthyol/ Noweda	Unguentum Cordes®	14A172	1
Ichthyol/ Noweda	Unguentum Cordes®	15a021	1
Ichthyol/ Noweda	Unguentum Cordes®	15A040	1
Ichthyol/ Noweda	Unguentum Cordes®	15A091	1
Ichthyol/ Noweda	Unguentum Cordes®	15A108	1
Ichthyol/ Noweda	Unguentum Cordes®	15A148	1
Ichthyol/ Noweda	Unguentum Cordes®	16A061	2
Ichthyol/ Noweda	Unguentum Cordes®	16A099	1
Ichthyol/ Noweda	Unguentum Cordes®	16A137	1
Ichthyol/ Noweda	Unguentum Cordes®	16A184	1
Ichthyol/ Noweda	Unguentum Cordes®	17A0005	1
Ichthyol/ Noweda	Unguentum Cordes®	17A002	2
ichthyol/ Noweda	Unguentum Cordes®	17A004	2
Ichthyol/ Noweda	Unguentum Cordes®	17A053	1
Ichthyol/ Noweda	Unguentum Cordes®	17A056	1
Ichthyol/ Noweda	Unguentum Cordes®	17A069	1
Ichthyol/ Noweda	Unguentum Cordes®	17A126	1
Ichthyol/ Noweda	Unguentum Cordes®	18A002	1
Ichthyol/ Noweda	Unguentum Cordes®	18A006	1
Ichthyol/ Noweda	Unguentum Cordes®	18A049	1
Ichthyol/ Noweda	Unguentum Cordes®	18A067	1
Ichthyol/ Noweda	Unguentum Cordes®	18A110	3
Ichthyol/ Noweda	Unguentum Cordes®	18A111	1
Ichthyol/ Noweda	Unguentum Cordes®	18A131	2
Ichthyol/ Noweda	Unguentum Cordes®	18A223	1
Ichthyol/ Noweda	Unguentum Cordes®	18A224	1
ichthyol/ Noweda	Unguentum Cordes®	19A005	1
Ichthyol/ Noweda	Unguentum Cordes®	20A0084	1
Ichthyol/ Phoenix	Unguentum Cordes®	16A155	1
Ichthyol/ Phoenix	Unguentum Cordes®	17A069	1
Ichthyol/ Phoenix	Unguentum Cordes®	17A126	1
ICHTHYOL/ Phoenix	Unguentum Cordes®	20A0098	1
ICHTHYOL/ Phoenix	Unguentum Cordes®	21A0056	1
Ichthyol/ Phönix	Unguentum Cordes®	15A150	4
ICHTHYOL/ Phönix	Unguentum Cordes®	16A083	1
Ichthyol/ Phönix	Unguentum Cordes®	16A101	1
Ichthyol/ Phönix	Unguentum Cordes®	17A005	1
Ichthyol/ Phönix	Unguentum Cordes®	17A085	1
Ichthyol/ Phönix	Unguentum Cordes®	18A101	1
Ichthyol/ Phönix	Unguentum Cordes®	18A107	1
Ichthyol/ Phönix	Unguentum Cordes®	18A223	1
Ichthyol/ Phönix	Unguentum Cordes®	19A0153	1
Ichthyol/ Phönix	Unguentum Cordes®	20A0089	1
Ichthyol/ Sanacorp	Unguentum Cordes®	15A108	1
Ichthyol/ Sanacorp	Unguentum Cordes®	15A150	1
Ichthyol/ Sanacorp	Unguentum Cordes®	16A044	1
Ichthyol/ Sanacorp	Unguentum Cordes®	16A046	1
Ichthyol/ Sanacorp	Unguentum Cordes®	16A155	1
Ichthyol/ Sanacorp	Unguentum Cordes®	17A101	1
Ichthyol/ Sanacorp	Unguentum Cordes®	18A048	1
Ichthyol/ Sanacorp	Unguentum Cordes®	18A113	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/ Sanacorp	Unguentum Cordes®	19A003	1
Ichthyol/ Sanacorp	Unguentum Cordes®	19A0154	1
Ichthyol/ Sanacorp	Unguentum Cordes®	19A026	1
Ichthyol/ Sanacorp	Unguentum Cordes®	19A215	1
Ichthyol/ Spangro	Unguentum Cordes®	16A142	1
Ichthyol/ VDL	Unguentum Cordes®	18A051	1
Ichthyol/ VDL	Unguentum Cordes®	18A132	1
Ichthyol/ VDL	Unguentum Cordes®	19A0182	1
Ichthyol/	Unguentum Cordes®	17A0367	1
Ichthyol/	Unguentum Cordes®	18A166	1
Ichthyol/	Unguentum Cordes®	19A0182	1
ICHTHYOL/1	Unguentum Cordes®	19A020	1
ICHTHYOL/11	Unguentum Cordes®	13A031	1
Ichthyol/14.01.14/K	Unguentum Cordes®	13A026	1
Ichthyol/15.11.19/Gehe	Unguentum Cordes®	18A111	1
Ichthyol/25.09.19/Gehe	Unguentum Cordes®	10A111	1
Ichthyol/25.09.19/Gehe	Unguentum Cordes®	18A156	3
Ichthyol/AEP	Unguentum Cordes®	20A0172	1
Ichthyol/AHC	Unguentum Cordes®	15A089	1
Ichthyol/AHC	Unguentum Cordes®	17A084	1
Ichthyol/AHC	Unguentum Cordes®	18A223	1
Ichthyol/AHD 27.10.21	Unguentum Cordes®	20A0173	1
Ichthyol/AHD	Unguentum Cordes®	12A185	1
ichthyol/AHD	Unguentum Cordes®	13A109	1
Ichthyol/AHD	Unguentum Cordes®	15A141	1
Ichthyol/AHD	Unguentum Cordes®	16A141	1
Ichthyol/AHD	Unguentum Cordes®	17A005	2
Ichthyol/AHD	Unguentum Cordes®	17A067	1
Ichthyol/AHD	Unguentum Cordes®	17A084	1
Ichthyol/AHD	Unguentum Cordes®	18A049	1
Ichthyol/AHD	Unguentum Cordes®	18A101	1
Ichthyol/AHD	Unguentum Cordes®	18A113	1
Ichthyol/AHD	Unguentum Cordes®	18A224	1
Ichthyol/AHD	Unguentum Cordes®	19A0154	1
ICHTHYOL/AHD	Unguentum Cordes®	19A01842	1
Ichthyol/AHD	Unguentum Cordes®	19A112	1
Ichthyol/AHD	Unguentum Cordes®	20A0028	1
ichthyol/AHD	Unguentum Cordes®	20a0034	1
Ichthyol/AHD	Unguentum Cordes®	20A0034	2
Ichthyol/AHD	Unguentum Cordes®	20A0049	1
Ichthyol/AHD	Unguentum Cordes®	20A0084	1
Ichthyol/AHD	Unguentum Cordes®	20A0105	1
Ichthyol/AHD	Unguentum Cordes®	20A0115	1
Ichthyol/AHD	Unguentum Cordes®	20A0152	1
Ichthyol/AHD	Unguentum Cordes®	20A0172	1
Ichthyol/AHD	Unguentum Cordes®	21A0096	1
Ichthyol/AHD	Unguentum Cordes®	21A0207	2
Ichthyol/AHD	Unguentum Cordes®	61(17A113	1
Ichthyol/AHP	Unguentum Cordes®	154141	1
Ichthyol/Alli. HC	Unguentum Cordes®	20A0090	1
Ichthyol/Alliance healt...	Unguentum Cordes®	13A047	1
Ichthyol/Alliance Healt...	Unguentum Cordes®	16A099	1
Ichthyol/Alliance Healt...	Unguentum Cordes®	17A003	2
Ichthyol/Alliance Healt...	Unguentum Cordes®	17A126	1
Ichthyol/Alliance Healt...	Unguentum Cordes®	17A127	1
Ichthyol/Alliance Healt...	Unguentum Cordes®	18A049	1
Ichthyol/Alliance Healt...	Unguentum Cordes®	18A147	2
Ichthyol/Alliance Healt...	Unguentum Cordes®	20A0093	1
Ichthyol/Alliance	Unguentum Cordes®	16A083	2
Ichthyol/Alliance	Unguentum Cordes®	16A143	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Alliance	Unguentum Cordes®	16A176	1
Ichthyol/Alliance	Unguentum Cordes®	17A055	1
Ichthyol/Alliance	Unguentum Cordes®	17A057	2
Ichthyol/Alliance	Unguentum Cordes®	17A070	1
Ichthyol/Alliance	Unguentum Cordes®	17A084	1
Ichthyol/Alliance	Unguentum Cordes®	17A126	3
Ichthyol/Alliance	Unguentum Cordes®	18A048	3
Ichthyol/Alliance	Unguentum Cordes®	18A051	1
Ichthyol/Alliance	Unguentum Cordes®	18A112	1
Ichthyol/Alliance	Unguentum Cordes®	18A216	1
Ichthyol/Alliance	Unguentum Cordes®	18A248	1
Ichthyol/Alliance	Unguentum Cordes®	19A001	1
Ichthyol/Alliance	Unguentum Cordes®	19A004	1
Ichthyol/Alliance	Unguentum Cordes®	19A006	1
Ichthyol/Alliance	Unguentum Cordes®	19A0183	2
Ichthyol/Alliance	Unguentum Cordes®	19A0184	1
Ichthyol/Alliance	Unguentum Cordes®	19A0262	2
Ichthyol/Alliance	Unguentum Cordes®	19A112	1
Ichthyol/Alliance	Unguentum Cordes®	19Ao05	1
ICHTHYOL/Alliance	Unguentum Cordes®	20A0002	1
ICHTHYOL/Alliance	Unguentum Cordes®	20A0034	1
Ichthyol/Alliance	Unguentum Cordes®	20A0035	1
Ichthyol/Alliance	Unguentum Cordes®	20A0049	2
Ichthyol/Alliance	Unguentum Cordes®	20A0098	1
Ichthyol/Alliance	Unguentum Cordes®	20A0115	2
ICHTHYOL/Alliance	Unguentum Cordes®	20A0150	1
Ichthyol/Alliance	Unguentum Cordes®	20A0172	2
Ichthyol/Alliance	Unguentum Cordes®	20A0234	1
Ichthyol/Alliance	Unguentum Cordes®	20A0235	1
ICHTHYOL/Alliance	Unguentum Cordes®	21A0057	1
Ichthyol/AllianceHealth...	Unguentum Cordes®	16A101	1
Ichthyol/AllianceHealth...	Unguentum Cordes®	16A183	1
Ichthyol/AllianceHealth...	Unguentum Cordes®	17A052	1
Ichthyol/AllianceHealth...	Unguentum Cordes®	17A113	1
Ichthyol/Anzag	Unguentum Cordes®	11A187	1
Ichthyol/Anzag	Unguentum Cordes®	12A055	1
Ichthyol/Anzag	Unguentum Cordes®	12A124	1
Ichthyol/Anzag	Unguentum Cordes®	12A130	1
ichthyol/ANZAG	Unguentum Cordes®	13A047	1
Ichthyol/Anzag	Unguentum Cordes®	13A049/13A050	1
Ichthyol/Anzag	Unguentum Cordes®	13A067	1
Ichthyol/Anzag	Unguentum Cordes®	1415A-02532	1
Ichthyol/Anzag	Unguentum Cordes®	15A020	1
Ichthyol/Anzag	Unguentum Cordes®	15A123	1
Ichthyol/Anzag	Unguentum Cordes®	15A141	1
Ichthyol/Anzag	Unguentum Cordes®	15A195	1
Ichthyol/Anzag	Unguentum Cordes®	16A048	1
Ichthyol/Anzag	Unguentum Cordes®	16A083	1
Ichthyol/Anzag	Unguentum Cordes®	16A183	1
Ichthyol/Anzag	Unguentum Cordes®	16A184	2
Ichthyol/Anzag	Unguentum Cordes®	1713M-02532	1
Ichthyol/Anzag	Unguentum Cordes®	17A003	1
Ichthyol/Anzag	Unguentum Cordes®	17A045	1
Ichthyol/Anzag	Unguentum Cordes®	17A049	1
Ichthyol/Anzag	Unguentum Cordes®	17A098	1
Ichthyol/Anzag	Unguentum Cordes®	18A007	1
Ichthyol/Anzag	Unguentum Cordes®	18A048	2
Ichthyol/Anzag	Unguentum Cordes®	18A110	2
Ichthyol/Anzag	Unguentum Cordes®	18A112	1
Ichthyol/Anzag	Unguentum Cordes®	18A113	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Anzag	Unguentum Cordes®	18A257	1
Ichthyol/Anzag	Unguentum Cordes®	19A0181	1
Ichthyol/Anzag	Unguentum Cordes®	19A0183	1
Ichthyol/Anzag	Unguentum Cordes®	19A0206	1
Ichthyol/Anzag	Unguentum Cordes®	20A0234	1
Ichthyol/Anzag	Unguentum Cordes®	2316I-02532	1
Ichthyol/E&J	Unguentum Cordes®	17A008	1
Ichthyol/E&J	Unguentum Cordes®	17A218	1
Ichthyol/E&J	Unguentum Cordes®	18A004	1
Ichthyol/ebert	Unguentum Cordes®	13A034	1
Ichthyol/Ebert	Unguentum Cordes®	13A090	1
Ichthyol/Ebert	Unguentum Cordes®	13A159	1
Ichthyol/Ebert	Unguentum Cordes®	14A060	1
Ichthyol/Fiebig 17.03....	Unguentum Cordes®	21A0202	1
Ichthyol/Fiebig	Unguentum Cordes®	13A166	1
Ichthyol/Fiebig	Unguentum Cordes®	14A179	1
Ichthyol/Fiebig	Unguentum Cordes®	15A040	1
Ichthyol/Fiebig	Unguentum Cordes®	15A043	1
Ichthyol/Fiebig	Unguentum Cordes®	15A140	1
Ichthyol/Fiebig	Unguentum Cordes®	16A143	1
Ichthyol/Fiebig	Unguentum Cordes®	16A153	1
Ichthyol/Fiebig	Unguentum Cordes®	16A184	1
Ichthyol/Fiebig	Unguentum Cordes®	17A018	1
Ichthyol/Fiebig	Unguentum Cordes®	17A045	1
Ichthyol/Fiebig	Unguentum Cordes®	17A09	1
Ichthyol/Fiebig	Unguentum Cordes®	18A110	1
Ichthyol/Fiebig	Unguentum Cordes®	18A156	1
ichthyol/Fiebig	Unguentum Cordes®	19A008	1
Ichthyol/Fiebig	Unguentum Cordes®	19A0153	1
Ichthyol/Fiebig	Unguentum Cordes®	19A0154	1
Ichthyol/Fiebig	Unguentum Cordes®	19A0184	1
Ichthyol/Fiebig	Unguentum Cordes®	20A0049	2
Ichthyol/Fiebig	Unguentum Cordes®	20A0051	1
Ichthyol/Fiebig	Unguentum Cordes®	20A0084	1
Ichthyol/Fiebig	Unguentum Cordes®	20A0090	1
Ichthyol/Fiebig	Unguentum Cordes®	20A0094	1
Ichthyol/Fiebig	Unguentum Cordes®	20A0105	1
Ichthyol/Fiebig	Unguentum Cordes®	20A0111	1
Ichthyol/Fiebig	Unguentum Cordes®	20A0151	1
Ichthyol/Fiebig	Unguentum Cordes®	20A0172	2
Ichthyol/Fiebig	Unguentum Cordes®	20A0173	1
Ichthyol/Fiebig	Unguentum Cordes®	20A0234	1
Ichthyol/Fiebig	Unguentum Cordes®	21A0150	1
Ichthyol/Fiebig	Unguentum Cordes®	21A0163	1
Ichthyol/Gehe	Unguentum Cordes®	11A043	1
Ichthyol/Gehe	Unguentum Cordes®	12A060	2
Ichthyol/Gehe	Unguentum Cordes®	12A079	1
Ichthyol/Gehe	Unguentum Cordes®	12A156	1
Ichthyol/Gehe	Unguentum Cordes®	12A190	1
Ichthyol/Gehe	Unguentum Cordes®	13A006	1
Ichthyol/GEHE	Unguentum Cordes®	13A034	1
Ichthyol/Gehe	Unguentum Cordes®	13A051	1
ichthyol/Gehe	Unguentum Cordes®	13A091	1
Ichthyol/Gehe	Unguentum Cordes®	13A106	1
ichthyol/Gehe	Unguentum Cordes®	13A109	1
Ichthyol/Gehe	Unguentum Cordes®	13A109	1
Ichthyol/gehe	Unguentum Cordes®	13A114	1
Ichthyol/GEHE	Unguentum Cordes®	13a138	1
Ichthyol/GEHE	Unguentum Cordes®	13A142	1
Ichthyol/Gehe	Unguentum Cordes®	13A172	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Gehe	Unguentum Cordes®	13A178	3
Ichthyol/Gehe	Unguentum Cordes®	13A181	2
Ichthyol/Gehe	Unguentum Cordes®	13A216	1
Ichthyol/gehe	Unguentum Cordes®	14A005	1
Ichthyol/Gehe	Unguentum Cordes®	14A006	1
Ichthyol/Gehe	Unguentum Cordes®	14A055	2
Ichthyol/Gehe	Unguentum Cordes®	14A056	2
Ichthyol/Gehe	Unguentum Cordes®	14A062	3
Ichthyol/gehe	Unguentum Cordes®	14A099	1
Ichthyol/Gehe	Unguentum Cordes®	14A112	1
Ichthyol/GEHE	Unguentum Cordes®	14a113	1
Ichthyol/Gehe	Unguentum Cordes®	14A117	1
Ichthyol/Gehe	Unguentum Cordes®	14A130	1
Ichthyol/Gehe	Unguentum Cordes®	14A172	2
ICHTHYOL/GEHE	Unguentum Cordes®	15A011	1
Ichthyol/Gehe	Unguentum Cordes®	15A020	1
Ichthyol/Gehe	Unguentum Cordes®	15A021	2
Ichthyol/Gehe	Unguentum Cordes®	15A023	1
Ichthyol/Gehe	Unguentum Cordes®	15A027	4
Ichthyol/Gehe	Unguentum Cordes®	15A040	2
Ichthyol/Gehe	Unguentum Cordes®	15A042	1
Ichthyol/Gehe	Unguentum Cordes®	15A043	2
Ichthyol/Gehe	Unguentum Cordes®	15A060	2
Ichthyol/Gehe	Unguentum Cordes®	15A073	1
Ichthyol/Gehe	Unguentum Cordes®	15A106	1
Ichthyol/Gehe	Unguentum Cordes®	15A123	1
Ichthyol/Gehe	Unguentum Cordes®	15A137	1
Ichthyol/Gehe	Unguentum Cordes®	15A139	1
Ichthyol/Gehe	Unguentum Cordes®	15A148	2
Ichthyol/Gehe	Unguentum Cordes®	15A156	2
Ichthyol/GEHE	Unguentum Cordes®	15A061	1
Ichthyol/Gehe	Unguentum Cordes®	16A051	1
Ichthyol/Gehe	Unguentum Cordes®	16A058	1
Ichthyol/Gehe	Unguentum Cordes®	16A061	1
Ichthyol/Gehe	Unguentum Cordes®	16A070	1
Ichthyol/Gehe	Unguentum Cordes®	16A083	1
Ichthyol/Gehe	Unguentum Cordes®	16A099	1
ICHTHYOL/Gehe	Unguentum Cordes®	16A099	1
Ichthyol/Gehe	Unguentum Cordes®	16A102	1
Ichthyol/Gehe	Unguentum Cordes®	16A119	1
Ichthyol/Gehe	Unguentum Cordes®	16A141	2
Ichthyol/GEHE	Unguentum Cordes®	16A143	1
Ichthyol/Gehe	Unguentum Cordes®	16A183	1
Ichthyol/Gehe	Unguentum Cordes®	16A210	1
Ichthyol/Gehe	Unguentum Cordes®	17A002	1
Ichthyol/Gehe	Unguentum Cordes®	17A004	1
ichthyol/gehe	Unguentum Cordes®	17A005	1
Ichthyol/Gehe	Unguentum Cordes®	17A045	4
Ichthyol/Gehe	Unguentum Cordes®	17A049	1
Ichthyol/Gehe	Unguentum Cordes®	17A052	1
Ichthyol/Gehe	Unguentum Cordes®	17A057	2
Ichthyol/Gehe	Unguentum Cordes®	17A067	1
Ichthyol/Gehe	Unguentum Cordes®	17A069	2
Ichthyol/Gehe	Unguentum Cordes®	17A084	2
Ichthyol/Gehe	Unguentum Cordes®	17A085	1
Ichthyol/Gehe	Unguentum Cordes®	17A106	1
Ichthyol/Gehe	Unguentum Cordes®	17A127	1
Ichthyol/GEHE	Unguentum Cordes®	17A127	1
ICHTHYOL/Gehe	Unguentum Cordes®	17A127	1
Ichthyol/Gehe	Unguentum Cordes®	17A142	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Gehe	Unguentum Cordes®	17A164	1
Ichthyol/Gehe	Unguentum Cordes®	18A048	2
Ichthyol/Gehe	Unguentum Cordes®	18A049	2
ICHTHYOL/Gehe	Unguentum Cordes®	18A049	1
Ichthyol/Gehe	Unguentum Cordes®	18A067	2
Ichthyol/Gehe	Unguentum Cordes®	18A083	1
Ichthyol/Gehe	Unguentum Cordes®	18A105	1
Ichthyol/Gehe	Unguentum Cordes®	18A107	2
ICHTHYOL/Gehe	Unguentum Cordes®	18A107	1
Ichthyol/Gehe	Unguentum Cordes®	18A111	4
Ichthyol/Gehe	Unguentum Cordes®	18A112	1
Ichthyol/Gehe	Unguentum Cordes®	18A113	4
Ichthyol/GEHE	Unguentum Cordes®	18A113	1
ICHTHYOL/Gehe	Unguentum Cordes®	18A131	1
ICHTHYOL/Gehe	Unguentum Cordes®	18A147	2
Ichthyol/Gehe	Unguentum Cordes®	18A190	1
ICHTHYOL/Gehe	Unguentum Cordes®	18A191	1
Ichthyol/Gehe	Unguentum Cordes®	18A192	1
Ichthyol/Gehe	Unguentum Cordes®	18A243	1
Ichthyol/Gehe	Unguentum Cordes®	18A244	1
ICHTHYOL/Gehe	Unguentum Cordes®	18A253	1
Ichthyol/Gehe	Unguentum Cordes®	19A004	3
Ichthyol/Gehe	Unguentum Cordes®	19A005	1
Ichthyol/Gehe	Unguentum Cordes®	19A006	1
Ichthyol/Gehe	Unguentum Cordes®	19A0153	3
Ichthyol/GEHE	Unguentum Cordes®	19A0153	1
Ichthyol/Gehe	Unguentum Cordes®	19A0154	3
Ichthyol/Gehe	Unguentum Cordes®	19A0183	1
Ichthyol/GEHE	Unguentum Cordes®	19A0183	1
Ichthyol/Gehe	Unguentum Cordes®	19A0184	1
Ichthyol/Gehe	Unguentum Cordes®	19a020	1
Ichthyol/Gehe	Unguentum Cordes®	19A020	1
Ichthyol/Gehe	Unguentum Cordes®	19A0256	1
ICHTHYOL/Gehe	Unguentum Cordes®	19A026	1
Ichthyol/Gehe	Unguentum Cordes®	19A112	1
Ichthyol/Gehe	Unguentum Cordes®	19A184	1
Ichthyol/GEHE	Unguentum Cordes®	20A0028	1
Ichthyol/Gehe	Unguentum Cordes®	20A0034	1
Ichthyol/Gehe	Unguentum Cordes®	20A0036	1
Ichthyol/Gehe	Unguentum Cordes®	20A0045	1
ichthyol/gehe	Unguentum Cordes®	20A0049	1
ichthyol/Gehe	Unguentum Cordes®	20A0049	1
Ichthyol/Gehe	Unguentum Cordes®	20A0049	6
Ichthyol/Gehe	Unguentum Cordes®	20A0060	1
Ichthyol/Gehe	Unguentum Cordes®	20A0084	2
Ichthyol/Gehe	Unguentum Cordes®	20A0094	1
Ichthyol/Gehe	Unguentum Cordes®	20A0098	1
Ichthyol/Gehe	Unguentum Cordes®	20A0124	1
Ichthyol/Gehe	Unguentum Cordes®	20A0150	1
Ichthyol/Gehe	Unguentum Cordes®	20A0151	1
Ichthyol/Gehe	Unguentum Cordes®	20A0172	1
Ichthyol/Gehe	Unguentum Cordes®	20A0234	1
Ichthyol/Gehe	Unguentum Cordes®	21A0100	2
Ichthyol/Gehe	Unguentum Cordes®	21A0184	1
Ichthyol/Gehe	Unguentum Cordes®	4913Q-02532	1
Ichthyol/GeiBo	Unguentum Cordes®	19A0153	1
Ichthyol/GeiBo	Unguentum Cordes®	20A0172	1
Ichthyol/Geilenkircheb	Unguentum Cordes®	17A056	1
Ichthyol/Geilenkircheb	Unguentum Cordes®	19A0183	1
Ichthyol/Geilenkirchen	Unguentum Cordes®	14A095	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Geilenkirchen	Unguentum Cordes®	17A085	2
Ichthyol/Geilenkirchen	Unguentum Cordes®	17A087	1
Ichthyol/Geilenkirchen	Unguentum Cordes®	18A110	2
Ichthyol/Geilenkirchen	Unguentum Cordes®	18A223	2
Ichthyol/Geilenkirchen	Unguentum Cordes®	20A0105	1
Ichthyol/Holdermann	Unguentum Cordes®	17A085	1
Ichthyol/Holdermann	Unguentum Cordes®	20A0173	1
Ichthyol/Jenne	Unguentum Cordes®	17A142	1
ichthyol/Jenne	Unguentum Cordes®	18A248	1
Ichthyol/Jenne	Unguentum Cordes®	20A0049	1
Ichthyol/Jenne	Unguentum Cordes®	20A0172	1
Ichthyol/Kehr	Unguentum Cordes®	17A113	1
Ichthyol/Kehr	Unguentum Cordes®	17A142	1
Ichthyol/Kehr	Unguentum Cordes®	18A156	1
Ichthyol/Kehr	Unguentum Cordes®	18A166	1
Ichthyol/Kehr	Unguentum Cordes®	18A191	1
Ichthyol/Kehr	Unguentum Cordes®	18A223	1
Ichthyol/Kehr	Unguentum Cordes®	18A232	1
Ichthyol/Kehr	Unguentum Cordes®	19A0149	1
Ichthyol/Kehr	Unguentum Cordes®	19A0153	1
ICHTHYOL/Kehr	Unguentum Cordes®	20A0030	1
Ichthyol/Krieger/23.05....	Unguentum Cordes®	13A209	1
Ichthyol/Krieger	Unguentum Cordes®	11A146	1
Ichthyol/Krieger	Unguentum Cordes®	11A202	1
Ichthyol/Krieger	Unguentum Cordes®	12A102	1
Ichthyol/Krieger	Unguentum Cordes®	12A184	1
Ichthyol/Krieger	Unguentum Cordes®	16A121	1
Ichthyol/Krieger	Unguentum Cordes®	16A123	1
Ichthyol/Krieger	Unguentum Cordes®	17A005	2
Ichthyol/Krieger	Unguentum Cordes®	17A049	1
Ichthyol/Krieger	Unguentum Cordes®	17A054	1
Ichthyol/Krieger	Unguentum Cordes®	18A070	1
Ichthyol/Krieger	Unguentum Cordes®	18A215	1
Ichthyol/Krieger	Unguentum Cordes®	18A216	1
Ichthyol/Krieger	Unguentum Cordes®	19A001	1
Ichthyol/Krieger	Unguentum Cordes®	19A005	1
Ichthyol/Krieger	Unguentum Cordes®	19A008	1
Ichthyol/Krieger	Unguentum Cordes®	19A0154	1
Ichthyol/Krieger	Unguentum Cordes®	19A0181	1
Ichthyol/Krieger	Unguentum Cordes®	19A0182	1
Ichthyol/Krieger	Unguentum Cordes®	20A0030	1
Ichthyol/Krieger	Unguentum Cordes®	20A0035	1
Ichthyol/Krieger	Unguentum Cordes®	20A0045	1
Ichthyol/Krieger	Unguentum Cordes®	20A0090	1
Ichthyol/Krieger	Unguentum Cordes®	20A0172	1
Ichthyol/N/14.02.13	Unguentum Cordes®	12A131	1
ichthyol/N/PZN:01062983	Unguentum Cordes®	13A050	1
Ichthyol/N	Unguentum Cordes®	16A046	1
Ichthyol/Noveda	Unguentum Cordes®	17A002	1
Ichthyol/Noweda	Unguentum Cordes®	12A064	1
Ichthyol/Noweda	Unguentum Cordes®	13A042	1
Ichthyol/Noweda	Unguentum Cordes®	13A043	1
Ichthyol/Noweda	Unguentum Cordes®	13A055	1
Ichthyol/Noweda	Unguentum Cordes®	13A089	2
Ichthyol/Noweda	Unguentum Cordes®	13A090	2
Ichthyol/Noweda	Unguentum Cordes®	13A106	1
Ichthyol/Noweda	Unguentum Cordes®	13A158	1
Ichthyol/Noweda	Unguentum Cordes®	13A172	1
Ichthyol/Noweda	Unguentum Cordes®	14A009	1
Ichthyol/Noweda	Unguentum Cordes®	14A047	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Noweda	Unguentum Cordes®	15A023	1
Ichthyol/Noweda	Unguentum Cordes®	15A060	1
Ichthyol/Noweda	Unguentum Cordes®	15A079	1
Ichthyol/Noweda	Unguentum Cordes®	15A089	1
Ichthyol/Noweda	Unguentum Cordes®	15A123	1
Ichthyol/Noweda	Unguentum Cordes®	15A124	1
Ichthyol/Noweda	Unguentum Cordes®	15A192	2
Ichthyol/Noweda	Unguentum Cordes®	16A045	2
Ichthyol/Noweda	Unguentum Cordes®	16A085	1
Ichthyol/Noweda	Unguentum Cordes®	16A099	1
Ichthyol/Noweda	Unguentum Cordes®	16A101	3
Ichthyol/Noweda	Unguentum Cordes®	16A111	2
Ichthyol/Noweda	Unguentum Cordes®	16A123	1
Ichthyol/Noweda	Unguentum Cordes®	16A139	3
Ichthyol/Noweda	Unguentum Cordes®	16A142	2
Ichthyol/Noweda	Unguentum Cordes®	16A143	1
Ichthyol/Noweda	Unguentum Cordes®	16A153	3
Ichthyol/Noweda	Unguentum Cordes®	16A155	1
Ichthyol/Noweda	Unguentum Cordes®	16A15501062983	1
Ichthyol/Noweda	Unguentum Cordes®	16A176	2
Ichthyol/Noweda	Unguentum Cordes®	16A210	1
Ichthyol/Noweda	Unguentum Cordes®	17A002	1
Ichthyol/Noweda	Unguentum Cordes®	17A003	1
Ichthyol/Noweda	Unguentum Cordes®	17A004	1
Ichthyol/Noweda	Unguentum Cordes®	17A007	3
Ichthyol/Noweda	Unguentum Cordes®	17A045	2
Ichthyol/Noweda	Unguentum Cordes®	17A049	1
Ichthyol/Noweda	Unguentum Cordes®	17A050	1
Ichthyol/Noweda	Unguentum Cordes®	17A052	1
Ichthyol/Noweda	Unguentum Cordes®	17A053	1
Ichthyol/Noweda	Unguentum Cordes®	17A054	3
Ichthyol/Noweda	Unguentum Cordes®	17A057	3
Ichthyol/Noweda	Unguentum Cordes®	17A069	1
Ichthyol/Noweda	Unguentum Cordes®	17A084	1
Ichthyol/Noweda	Unguentum Cordes®	17A0852mal250g	1
Ichthyol/Noweda	Unguentum Cordes®	17A105	4
Ichthyol/Noweda	Unguentum Cordes®	17A106	1
Ichthyol/Noweda	Unguentum Cordes®	17A112	1
Ichthyol/Noweda	Unguentum Cordes®	17A127	1
Ichthyol/Noweda	Unguentum Cordes®	17A164	2
Ichthyol/Noweda	Unguentum Cordes®	18A049	1
Ichthyol/Noweda	Unguentum Cordes®	18A051	2
Ichthyol/Noweda	Unguentum Cordes®	18A052	2
Ichthyol/Noweda	Unguentum Cordes®	18A070	1
ichthyol/Noweda	Unguentum Cordes®	18A073	1
Ichthyol/Noweda	Unguentum Cordes®	18A073	1
Ichthyol/Noweda	Unguentum Cordes®	18A105	1
Ichthyol/Noweda	Unguentum Cordes®	18A107	1
Ichthyol/Noweda	Unguentum Cordes®	18A110	2
Ichthyol/Noweda	Unguentum Cordes®	18A112	3
Ichthyol/Noweda	Unguentum Cordes®	18A113	2
Ichthyol/Noweda	Unguentum Cordes®	18A130	1
Ichthyol/Noweda	Unguentum Cordes®	18A132	1
Ichthyol/Noweda	Unguentum Cordes®	18A166	1
ICHTHYOL/Noweda	Unguentum Cordes®	18A190	1
Ichthyol/Noweda	Unguentum Cordes®	18A191	1
ICHTHYOL/Noweda	Unguentum Cordes®	18A215	1
Ichthyol/Noweda	Unguentum Cordes®	18A223	1
ICHTHYOL/Noweda	Unguentum Cordes®	18A223	1
Ichthyol/Noweda	Unguentum Cordes®	18A224	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
ICHTHYOL/Noweda	Unguentum Cordes®	19A001	1
Ichthyol/Noweda	Unguentum Cordes®	19A003	2
ICHTHYOL/Noweda	Unguentum Cordes®	19A003	1
Ichthyol/Noweda	Unguentum Cordes®	19A004	1
ICHTHYOL/Noweda	Unguentum Cordes®	19A004	1
Ichthyol/Noweda	Unguentum Cordes®	19A005	1
ICHTHYOL/Noweda	Unguentum Cordes®	19A006	1
Ichthyol/Noweda	Unguentum Cordes®	19A007	1
Ichthyol/Noweda	Unguentum Cordes®	19A008	1
Ichthyol/Noweda	Unguentum Cordes®	19A0149	2
Ichthyol/Noweda	Unguentum Cordes®	19A0153	1
Ichthyol/Noweda	Unguentum Cordes®	19A0154	1
ICHTHYOL/Noweda	Unguentum Cordes®	19A0181	2
Ichthyol/Noweda	Unguentum Cordes®	19A0182	2
Ichthyol/Noweda	Unguentum Cordes®	19A0183	1
ICHTHYOL/Noweda	Unguentum Cordes®	19A0183	1
Ichthyol/Noweda	Unguentum Cordes®	19A0184	1
Ichthyol/Noweda	Unguentum Cordes®	19A020	3
Ichthyol/Noweda	Unguentum Cordes®	19A0204	1
Ichthyol/Noweda	Unguentum Cordes®	19A0256	2
Ichthyol/Noweda	Unguentum Cordes®	19A0262	3
Ichthyol/Noweda	Unguentum Cordes®	19A111	3
ICHTHYOL/Noweda	Unguentum Cordes®	19A111	3
Ichthyol/Noweda	Unguentum Cordes®	19A128	1
Ichthyol/Noweda	Unguentum Cordes®	19A181	1
Ichthyol/Noweda	Unguentum Cordes®	1A048	1
Ichthyol/Noweda	Unguentum Cordes®	1SA111	1
Ichthyol/Noweda	Unguentum Cordes®	20A0028	1
ICHTHYOL/Noweda	Unguentum Cordes®	20A0028	1
Ichthyol/Noweda	Unguentum Cordes®	20A0035	2
Ichthyol/Noweda	Unguentum Cordes®	20A0045	1
ICHTHYOL/Noweda	Unguentum Cordes®	20A0045	1
Ichthyol/Noweda	Unguentum Cordes®	20A0049	1
Ichthyol/Noweda	Unguentum Cordes®	20A0084	4
Ichthyol/Noweda	Unguentum Cordes®	20A0090	1
Ichthyol/Noweda	Unguentum Cordes®	20A0111	2
Ichthyol/Noweda	Unguentum Cordes®	20A0131	1
Ichthyol/Noweda	Unguentum Cordes®	20A0149	3
Ichthyol/Noweda	Unguentum Cordes®	20A0150	2
Ichthyol/Noweda	Unguentum Cordes®	20A0151	2
Ichthyol/Noweda	Unguentum Cordes®	20A0153	1
Ichthyol/Noweda	Unguentum Cordes®	20A0173	1
Ichthyol/Noweda	Unguentum Cordes®	20A0234	3
Ichthyol/Noweda	Unguentum Cordes®	21A0102	1
Ichthyol/Noweda	Unguentum Cordes®	A00902	1
Ichthyol/O.G.	Unguentum Cordes®	16A140	1
Ichthyol/O.G.	Unguentum Cordes®	16A153	1
Ichthyol/O.G.	Unguentum Cordes®	16A210	1
Ichthyol/O.G.	Unguentum Cordes®	20A0131	1
Ichthyol/OG	Unguentum Cordes®	17A003	2
Ichthyol/OG	Unguentum Cordes®	17A067	1
Ichthyol/Otto	Unguentum Cordes®		1
Ichthyol/Otto	Unguentum Cordes®	12A020	1
Ichthyol/Otto	Unguentum Cordes®	12A130	2
Ichthyol/Otto	Unguentum Cordes®	12AI30	1
Ichthyol/Otto	Unguentum Cordes®	13A055	1
Ichthyol/Otto	Unguentum Cordes®	13A136	1
Ichthyol/Otto	Unguentum Cordes®	13A159	1
Ichthyol/Otto	Unguentum Cordes®	14A113	1
Ichthyol/Otto	Unguentum Cordes®	15A010	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Otto	Unguentum Cordes®	15A107	1
Ichthyol/P	Unguentum Cordes®	17A069	1
Ichthyol/P	Unguentum Cordes®	19A001	1
Ichthyol/P	Unguentum Cordes®	19A004	1
Ichthyol/Phö	Unguentum Cordes®	17AQ084	1
Ichthyol/Phoenix WE:02....	Unguentum Cordes®	15A137	1
Ichthyol/Phoenix	Unguentum Cordes®	13A049	1
Ichthyol/Phoenix	Unguentum Cordes®	13A054	1
Ichthyol/Phoenix	Unguentum Cordes®	13A135	1
Ichthyol/Phoenix	Unguentum Cordes®	13A166	1
Ichthyol/Phoenix	Unguentum Cordes®	14A079	1
Ichthyol/Phoenix	Unguentum Cordes®	14A095	1
Ichthyol/Phoenix	Unguentum Cordes®	14A124	1
Ichthyol/Phoenix	Unguentum Cordes®	14A172	1
Ichthyol/Phoenix	Unguentum Cordes®	15A011	1
Ichthyol/Phoenix	Unguentum Cordes®	15A020	1
Ichthyol/Phoenix	Unguentum Cordes®	15A022	1
Ichthyol/Phoenix	Unguentum Cordes®	15A042	1
Ichthyol/Phoenix	Unguentum Cordes®	15A044	1
Ichthyol/Phoenix	Unguentum Cordes®	15A061	1
Ichthyol/Phoenix	Unguentum Cordes®	15A090	1
Ichthyol/Phoenix	Unguentum Cordes®	15A106	1
Ichthyol/Phoenix	Unguentum Cordes®	15A107	1
Ichthyol/Phoenix	Unguentum Cordes®	15A141	1
Ichthyol/Phoenix	Unguentum Cordes®	15A149	1
Ichthyol/Phoenix	Unguentum Cordes®	15A156	1
Ichthyol/Phoenix	Unguentum Cordes®	15A191	1
ICHTHYOL/Phoenix	Unguentum Cordes®	15A191	2
Ichthyol/Phoenix	Unguentum Cordes®	15AO23	1
Ichthyol/Phoenix	Unguentum Cordes®	15ao60	1
Ichthyol/Phoenix	Unguentum Cordes®	16A046	1
Ichthyol/Phoenix	Unguentum Cordes®	16A047	1
Ichthyol/Phoenix	Unguentum Cordes®	16A048	1
Ichthyol/Phoenix	Unguentum Cordes®	16A102	1
Ichthyol/Phoenix	Unguentum Cordes®	16A121	4
Ichthyol/Phoenix	Unguentum Cordes®	16A137	1
Ichthyol/Phoenix	Unguentum Cordes®	16A140	3
ICHTHYOL/Phoenix	Unguentum Cordes®	16A140	1
Ichthyol/Phoenix	Unguentum Cordes®	16A142	1
ICHTHYOL/Phoenix	Unguentum Cordes®	16A155	1
Ichthyol/Phoenix	Unguentum Cordes®	16AO47	1
Ichthyol/Phoenix	Unguentum Cordes®	17A003	2
Ichthyol/Phoenix	Unguentum Cordes®	17A045	1
ICHTHYOL/Phoenix	Unguentum Cordes®	17A045	3
Ichthyol/Phoenix	Unguentum Cordes®	17A054	1
ICHTHYOL/Phoenix	Unguentum Cordes®	17A056	1
Ichthyol/Phoenix	Unguentum Cordes®	17A067	1
ICHTHYOL/Phoenix	Unguentum Cordes®	17A067	1
Ichthyol/Phoenix	Unguentum Cordes®	17A087	1
Ichthyol/Phoenix	Unguentum Cordes®	17A101	2
Ichthyol/Phoenix	Unguentum Cordes®	17A104	1
Ichthyol/Phoenix	Unguentum Cordes®	17A105	1
Ichthyol/Phoenix	Unguentum Cordes®	17A142	1
Ichthyol/Phoenix	Unguentum Cordes®	17A163	1
Ichthyol/Phoenix	Unguentum Cordes®	17AO67	1
Ichthyol/Phoenix	Unguentum Cordes®	18A049	2
Ichthyol/Phoenix	Unguentum Cordes®	18A050	1
Ichthyol/Phoenix	Unguentum Cordes®	18A051	3
Ichthyol/Phoenix	Unguentum Cordes®	18A052	1
Ichthyol/Phoenix	Unguentum Cordes®	18A107	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Phoenix	Unguentum Cordes®	18A111	1
Ichthyol/Phoenix	Unguentum Cordes®	18A112	1
Ichthyol/Phoenix	Unguentum Cordes®	18A113	1
Ichthyol/Phoenix	Unguentum Cordes®	18A130	1
Ichthyol/Phoenix	Unguentum Cordes®	18A147	1
Ichthyol/Phoenix	Unguentum Cordes®	18A156	2
Ichthyol/Phoenix	Unguentum Cordes®	18A166	3
Ichthyol/Phoenix	Unguentum Cordes®	18A191	1
Ichthyol/Phoenix	Unguentum Cordes®	18A215	1
Ichthyol/Phoenix	Unguentum Cordes®	18A223	1
Ichthyol/Phoenix	Unguentum Cordes®	19A001	1
ichthyol/phoenix	Unguentum Cordes®	19A0154	1
Ichthyol/Phoenix	Unguentum Cordes®	19A0182	1
Ichthyol/Phoenix	Unguentum Cordes®	19A0183	1
Ichthyol/Phoenix	Unguentum Cordes®	19A0256	1
Ichthyol/phoenix	Unguentum Cordes®	20A0049	1
Ichthyol/Phoenix	Unguentum Cordes®	20A0049	1
Ichthyol/phoenix	Unguentum Cordes®	20A0084	1
Ichthyol/Phoenix	Unguentum Cordes®	20A0084	2
Ichthyol/Phoenix	Unguentum Cordes®	20A0115	1
ICHTHYOL/Phoenix	Unguentum Cordes®	20A0115	1
Ichthyol/Phoenix	Unguentum Cordes®	20A0151	1
ichthyol/phoenix	Unguentum Cordes®	20A0153	1
Ichthyol/phoenix	Unguentum Cordes®	20A0153	1
Ichthyol/Phoenix	Unguentum Cordes®	20A0173	2
Ichthyol/Phoenix	Unguentum Cordes®	20A0234	1
Ichthyol/Phoenix	Unguentum Cordes®	21A0055	1
ICHTHYOL/Phoenix	Unguentum Cordes®	21A0114	1
Ichthyol/Phoenix	Unguentum Cordes®	21A0163	1
Ichthyol/Phoenix	Unguentum Cordes®	21A0201	1
Ichthyol/Phön.	Unguentum Cordes®	18A156	1
Ichthyol/Phönix/Phönix	Unguentum Cordes®	20A0152	1
ICHTHYOL/Phönix	Unguentum Cordes®	10A070	1
Ichthyol/Phönix	Unguentum Cordes®	12A184	1
Ichthyol/Phönix	Unguentum Cordes®	13A010	1
Ichthyol/Phönix	Unguentum Cordes®	13A030	1
Ichthyol/Phönix	Unguentum Cordes®	13A033	1
Ichthyol/phönix	Unguentum Cordes®	13A034	1
Ichthyol/Phönix	Unguentum Cordes®	13A089	1
Ichthyol/Phönix	Unguentum Cordes®	13A140	1
Ichthyol/Phönix	Unguentum Cordes®	13A166	3
Ichthyol/Phönix	Unguentum Cordes®	13A054	1
Ichthyol/Phönix	Unguentum Cordes®	14A057	1
Ichthyol/Phönix	Unguentum Cordes®	14A062	1
Ichthyol/Phönix	Unguentum Cordes®	14A095	1
Ichthyol/Phönix	Unguentum Cordes®	14A116	1
Ichthyol/Phönix	Unguentum Cordes®	14A172	2
Ichthyol/Phönix	Unguentum Cordes®	14A179	1
Ichthyol/phönix	Unguentum Cordes®	15A020	1
Ichthyol/Phönix	Unguentum Cordes®	15A020	2
Ichthyol/Phönix	Unguentum Cordes®	15A023	1
Ichthyol/Phönix	Unguentum Cordes®	15A042	1
Ichthyol/Phönix	Unguentum Cordes®	15A061	1
Ichthyol/Phönix	Unguentum Cordes®	15A062	1
Ichthyol/Phönix	Unguentum Cordes®	15A073	1
Ichthyol/Phönix	Unguentum Cordes®	15A092	1
Ichthyol/Phönix	Unguentum Cordes®	15A108	3
Ichthyol/Phönix	Unguentum Cordes®	15A123	1
Ichthyol/Phönix	Unguentum Cordes®	15A124	1
Ichthyol/Phönix	Unguentum Cordes®	15A125	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Phönix	Unguentum Cordes®	15A142	1
Ichthyol/Phönix	Unguentum Cordes®	15A150	1
Ichthyol/Phönix	Unguentum Cordes®	15A162	1
Ichthyol/Phönix	Paraffin, white	16138003	1
Ichthyol/Phönix	Unguentum Cordes®	16A023	1
Ichthyol/Phönix	Unguentum Cordes®	16a044	1
Ichthyol/Phönix	Unguentum Cordes®	16A045	1
Ichthyol/Phönix	Unguentum Cordes®	16A048	2
Ichthyol/Phönix	Unguentum Cordes®	16A101	2
Ichthyol/Phönix	Unguentum Cordes®	16A102	1
Ichthyol/Phönix	Unguentum Cordes®	16A119	1
Ichthyol/Phönix	Unguentum Cordes®	16A141	1
Ichthyol/Phönix	Unguentum Cordes®	16A142	1
Ichthyol/Phönix	Unguentum Cordes®	16A155	1
Ichthyol/Phönix	Unguentum Cordes®	16A184	1
ICHTHYOL/Phönix	Unguentum Cordes®	16A184	1
Ichthyol/Phönix	Unguentum Cordes®	17A002	2
Ichthyol/Phönix	Unguentum Cordes®	17A003	1
Ichthyol/Phönix	Unguentum Cordes®	17A004	1
Ichthyol/Phönix	Unguentum Cordes®	17A005	1
Ichthyol/Phönix	Unguentum Cordes®	17A0058	1
Ichthyol/Phönix	Unguentum Cordes®	17A007	1
Ichthyol/Phönix	Unguentum Cordes®	17A049	2
Ichthyol/Phönix	Unguentum Cordes®	17A054	1
Ichthyol/Phönix	Unguentum Cordes®	17A056	1
Ichthyol/Phönix	Unguentum Cordes®	17A057	3
Ichthyol/Phönix	Unguentum Cordes®	17A067	3
Ichthyol/Phönix	Unguentum Cordes®	17A069	2
Ichthyol/Phönix	Unguentum Cordes®	17A084	3
Ichthyol/Phönix	Unguentum Cordes®	17A085	4
Ichthyol/Phönix	Unguentum Cordes®	17A101	2
Ichthyol/Phönix	Unguentum Cordes®	17A104	3
Ichthyol/Phönix	Unguentum Cordes®	17A112	2
Ichthyol/Phönix	Unguentum Cordes®	17A126	1
Ichthyol/Phönix	Unguentum Cordes®	17A127	1
Ichthyol/Phönix	Unguentum Cordes®	17A164	2
Ichthyol/Phönix	Unguentum Cordes®	18A002	2
Ichthyol/Phönix	Unguentum Cordes®	18A048	1
Ichthyol/Phönix	Unguentum Cordes®	18A049	1
Ichthyol/Phönix	Unguentum Cordes®	18A050	1
Ichthyol/Phönix	Unguentum Cordes®	18A051	1
Ichthyol/Phönix	Unguentum Cordes®	18A052	2
Ichthyol/Phönix	Unguentum Cordes®	18A084	1
Ichthyol/Phönix	Unguentum Cordes®	18A105	2
Ichthyol/Phönix	Unguentum Cordes®	18A107	2
Ichthyol/Phönix	Unguentum Cordes®	18A111	4
Ichthyol/Phönix	Unguentum Cordes®	18A112	1
Ichthyol/Phönix	Unguentum Cordes®	18A113	1
Ichthyol/Phönix	Unguentum Cordes®	18A13	1
Ichthyol/Phönix	Unguentum Cordes®	18A130	2
Ichthyol/Phönix	Unguentum Cordes®	18A156	1
Ichthyol/Phönix	Unguentum Cordes®	18A166	1
Ichthyol/Phönix	Unguentum Cordes®	18A190	1
Ichthyol/Phönix	Unguentum Cordes®	18A191	3
Ichthyol/Phönix	Unguentum Cordes®	18A216	1
Ichthyol/Phönix	Unguentum Cordes®	18A223	1
Ichthyol/Phönix	Unguentum Cordes®	19A003	1
Ichthyol/Phönix	Unguentum Cordes®	19A004	1
Ichthyol/Phönix	Unguentum Cordes®	19A006	2
Ichthyol/Phönix	Unguentum Cordes®	19A-006	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Phönix	Unguentum Cordes®	19A0149	3
Ichthyol/Phönix	Unguentum Cordes®	19A0153	1
Ichthyol/Phönix	Unguentum Cordes®	19A0154	1
Ichthyol/Phönix	Unguentum Cordes®	19A0181	1
Ichthyol/Phönix	Unguentum Cordes®	19A0184	1
Ichthyol/Phönix	Unguentum Cordes®	19A020	1
Ichthyol/Phönix	Unguentum Cordes®	19A0257	3
Ichthyol/Phönix	Unguentum Cordes®	19A111	1
Ichthyol/Phönix	Unguentum Cordes®	19A112	2
ichthyol/Phönix	Unguentum Cordes®	19A128	1
Ichthyol/Phönix	Unguentum Cordes®	20A0002	1
Ichthyol/Phönix	Unguentum Cordes®	20A0034	1
Ichthyol/Phönix	Unguentum Cordes®	20A0035	1
Ichthyol/Phönix	Unguentum Cordes®	20A0093	1
Ichthyol/Phönix	Unguentum Cordes®	20A0105	1
Ichthyol/Phönix	Unguentum Cordes®	20A0115	2
Ichthyol/Phönix	Unguentum Cordes®	20A0150	1
ICHTHYOL/Phönix	Unguentum Cordes®	20A0151	1
Ichthyol/Phönix	Unguentum Cordes®	20A0152	1
Ichthyol/Phönix	Unguentum Cordes®	20A0173	1
Ichthyol/Phönix	Unguentum Cordes®	20A0192	1
Ichthyol/Phönix	Unguentum Cordes®	20A0211	1
Ichthyol/Phönix	Unguentum Cordes®	20A0234	2
Ichthyol/Phönix	Unguentum Cordes®	21A0055	1
Ichthyol/Phönix	Unguentum Cordes®	21A0058	2
Ichthyol/Phönix20a0149	Unguentum Cordes®	20A0149	1
Ichthyol/Px	Unguentum Cordes®	15A137	1
Ichthyol/Sana	Unguentum Cordes®	17a045	1
Ichthyol/Sana	Unguentum Cordes®	18A110	1
Ichthyol/Sana	Unguentum Cordes®	18A156	1
Ichthyol/Sana	Unguentum Cordes®	20A0153	2
Ichthyol/Sana	Unguentum Cordes®	21A0057	1
Ichthyol/Sanac	Unguentum Cordes®	18A101	1
Ichthyol/Sanacop	Unguentum Cordes®	18A052	1
Ichthyol/Sanacop	Unguentum Cordes®	18A105	2
Ichthyol/Sanacop	Unguentum Cordes®	18A132	1
Ichthyol/Sanacop	Unguentum Cordes®	18A248	1
Ichthyol/Sanacop	Unguentum Cordes®	19A004	1
Ichthyol/Sanacop	Unguentum Cordes®	19A0257	1
Ichthyol/Sanacorp 25.06...	Unguentum Cordes®	21A0056	1
Ichthyol/Sanacorp	Unguentum Cordes®	12A006	1
ichthyol/Sanacorp	Unguentum Cordes®	12A183	1
Ichthyol/Sanacorp	Unguentum Cordes®	12A211	1
Ichthyol/Sanacorp	Unguentum Cordes®	13A010	1
Ichthyol/Sanacorp	Unguentum Cordes®	13A048	1
ichthyol/Sanacorp	Unguentum Cordes®	13A090	1
Ichthyol/Sanacorp	Unguentum Cordes®	13A106	1
Ichthyol/Sanacorp	Unguentum Cordes®	13A108	1
Ichthyol/Sanacorp	Unguentum Cordes®	13A140	1
Ichthyol/Sanacorp	Unguentum Cordes®	13A142	1
Ichthyol/Sanacorp	Unguentum Cordes®	13A214	1
Ichthyol/Sanacorp	Unguentum Cordes®	14A055	2
Ichthyol/Sanacorp	Unguentum Cordes®	14A060	1
Ichthyol/Sanacorp	Unguentum Cordes®	14A079	1
Ichthyol/Sanacorp	Unguentum Cordes®	14A098	1
Ichthyol/Sanacorp	Unguentum Cordes®	14A171	1
Ichthyol/Sanacorp	Unguentum Cordes®	14A179	1
Ichthyol/Sanacorp	Unguentum Cordes®	15A010	1
Ichthyol/Sanacorp	Unguentum Cordes®	15A037	1
Ichthyol/Sanacorp	Unguentum Cordes®	15A061	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Sanacorp	Unguentum Cordes®	15A074	1
Ichthyol/Sanacorp	Unguentum Cordes®	15A093	1
Ichthyol/Sanacorp	Unguentum Cordes®	15A106	1
Ichthyol/Sanacorp	Unguentum Cordes®	15A123	1
Ichthyol/Sanacorp	Unguentum Cordes®	15A149	2
Ichthyol/Sanacorp	Unguentum Cordes®	15A164	1
Ichthyol/Sanacorp	Unguentum Cordes®	15A191	1
Ichthyol/Sanacorp	Unguentum Cordes®	16A026	1
Ichthyol/Sanacorp	Unguentum Cordes®	16A044	1
Ichthyol/sanacorp	Unguentum Cordes®	16A083	1
Ichthyol/sanacorp	Unguentum Cordes®	16A101	1
Ichthyol/Sanacorp	Unguentum Cordes®	16A142	1
Ichthyol/Sanacorp	Unguentum Cordes®	16A176	2
Ichthyol/sanacorp	Unguentum Cordes®	16A183	1
Ichthyol/sanacorp	Unguentum Cordes®	16A184	1
Ichthyol/Sanacorp	Unguentum Cordes®	16A184	2
Ichthyol/Sanacorp	Unguentum Cordes®	17A002	2
ichthyol/Sanacorp	Unguentum Cordes®	17A003	1
Ichthyol/Sanacorp	Unguentum Cordes®	17A005	3
Ichthyol/Sanacorp	Unguentum Cordes®	17A007	3
Ichthyol/Sanacorp	Unguentum Cordes®	17A045	2
Ichthyol/Sanacorp	Unguentum Cordes®	17A056	1
Ichthyol/Sanacorp	Unguentum Cordes®	17A067	1
ichthyol/Sanacorp	Unguentum Cordes®	17A084	1
Ichthyol/Sanacorp	Unguentum Cordes®	17A084	1
ICHTHYOL/Sanacorp	Unguentum Cordes®	17A085	1
Ichthyol/Sanacorp	Unguentum Cordes®	17A101	1
Ichthyol/Sanacorp	Unguentum Cordes®	17A104	1
Ichthyol/sanacorp	Unguentum Cordes®	17A106	1
Ichthyol/Sanacorp	Unguentum Cordes®	17A106	1
Ichthyol/sanacorp	Unguentum Cordes®	17A113	2
Ichthyol/Sanacorp	Unguentum Cordes®	17A127	1
Ichthyol/Sanacorp	Unguentum Cordes®	17A142	1
Ichthyol/Sanacorp	Unguentum Cordes®	17A163	1
Ichthyol/sanacorp	Unguentum Cordes®	18A052	1
Ichthyol/Sanacorp	Unguentum Cordes®	18A052	1
Ichthyol/Sanacorp	Unguentum Cordes®	18A070	1
Ichthyol/sanacorp	Unguentum Cordes®	18A105	1
Ichthyol/Sanacorp	Unguentum Cordes®	18A107	1
Ichthyol/Sanacorp	Unguentum Cordes®	18A11	1
Ichthyol/Sanacorp	Unguentum Cordes®	18A111	4
Ichthyol/sanacorp	Unguentum Cordes®	18A112	1
Ichthyol/Sanacorp	Unguentum Cordes®	18a112	1
Ichthyol/Sanacorp	Unguentum Cordes®	18A112	4
ICHTHYOL/Sanacorp	Unguentum Cordes®	18A112	1
Ichthyol/Sanacorp	Unguentum Cordes®	18A113	1
Ichthyol/sanacorp	Unguentum Cordes®	18A131	2
Ichthyol/Sanacorp	Unguentum Cordes®	18A147	1
ichthyol/Sanacorp	Unguentum Cordes®	18A156	1
Ichthyol/sanacorp	Unguentum Cordes®	18A156	3
Ichthyol/Sanacorp	Unguentum Cordes®	18A156	2
Ichthyol/sanacorp	Unguentum Cordes®	18A216	1
Ichthyol/Sanacorp	Unguentum Cordes®	18A216	2
ichthyol/Sanacorp	Unguentum Cordes®	18A223	2
Ichthyol/Sanacorp	Unguentum Cordes®	18A223	3
Ichthyol/Sanacorp	Unguentum Cordes®	18A224	3
Ichthyol/Sanacorp	Unguentum Cordes®	18A2323	1
Ichthyol/sanacorp	Unguentum Cordes®	19A001	1
Ichthyol/Sanacorp	Unguentum Cordes®	19A003	1
ICHTHYOL/Sanacorp	Unguentum Cordes®	19A003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/sanacorp	Unguentum Cordes®	19A005	1
Ichthyol/Sanacorp	Unguentum Cordes®	19A0149	1
Ichthyol/Sanacorp	Unguentum Cordes®	19A0154	3
Ichthyol/sanacorp	Unguentum Cordes®	19A0181	2
Ichthyol/Sanacorp	Unguentum Cordes®	19A0256	1
Ichthyol/Sanacorp	Unguentum Cordes®	19A026	1
Ichthyol/Sanacorp	Unguentum Cordes®	19A128	1
Ichthyol/Sanacorp	Unguentum Cordes®	20A0002	1
Ichthyol/Sanacorp	Unguentum Cordes®	20A0084	4
Ichthyol/Sanacorp	Unguentum Cordes®	20A0090	1
Ichthyol/Sanacorp	Unguentum Cordes®	20A0131	1
Ichthyol/Sanacorp	Unguentum Cordes®	20A01503	1
Ichthyol/Sanacorp	Unguentum Cordes®	20A0151	1
Ichthyol/Sanacorp	Unguentum Cordes®	21A0164	1
Ichthyol/Sanacorp	Unguentum Cordes®	AP210622-03	1
Ichthyol/Sanova Pharma	Unguentum Cordes®	15A041	1
Ichthyol/Sanova Pharma	Unguentum Cordes®	15A156	1
Ichthyol/Sanova Pharma	Unguentum Cordes®	17A003	1
Ichthyol/Spangro	Unguentum Cordes®	16A085	1
Ichthyol/Spangro	Unguentum Cordes®	16A099	1
Ichthyol/Spangro	Unguentum Cordes®	16A101	1
Ichthyol/Spangro	Unguentum Cordes®	17A004	1
Ichthyol/Spangro	Unguentum Cordes®	17A106	1
Ichthyol/Spangro	Unguentum Cordes®	17A113	1
Ichthyol/Spangro22.4.21	Unguentum Cordes®	20A0105	1
Ichthyol/VDL	Unguentum Cordes®	13A136	1
ichthyol	Unguentum Cordes®		1
ICHTHYOL	Unguentum Cordes®	10A216	1
Ichthyol	Unguentum Cordes®	11A085	3
Ichthyol	Unguentum Cordes®	11A120	1
Ichthyol	Unguentum Cordes®	11A150	1
Ichthyol	Unguentum Cordes®	11A153	1
Ichthyol	Unguentum Cordes®	11A233	1
ichthyol	Unguentum Cordes®	12A060	1
Ichthyol	Unguentum Cordes®	12A064	1
ichthyol	Unguentum Cordes®	12A102	1
ichthyol	Unguentum Cordes®	12A115	1
Ichthyol	Unguentum Cordes®	12A115	2
Ichthyol	Unguentum Cordes®	12A120	1
Ichthyol	Unguentum Cordes®	12A121	3
ichthyol	Unguentum Cordes®	12A129	1
Ichthyol	Unguentum Cordes®	12A131	2
ichthyol	Unguentum Cordes®	12A139	1
Ichthyol	Unguentum Cordes®	12A139	1
Ichthyol	Unguentum Cordes®	12a145	1
ichthyol	Unguentum Cordes®	12A152	1
Ichthyol	Unguentum Cordes®	12A152	3
Ichthyol	Unguentum Cordes®	12A157	1
Ichthyol	Unguentum Cordes®	12A160	1
Ichthyol	Unguentum Cordes®	12A185	1
ichthyol	Unguentum Cordes®	12A190	1
Ichthyol	Unguentum Cordes®	12A190	1
Ichthyol	Unguentum Cordes®	12A205	3
ichthyol	Unguentum Cordes®	12A206	1
Ichthyol	Unguentum Cordes®	12A211	1
Ichthyol	Unguentum Cordes®	13012015B	1
Ichthyol	Unguentum Cordes®	13041504	1
Ichthyol	Unguentum Cordes®	13092013D	1
Ichthyol	Unguentum Cordes®	13A003	1
Ichthyol	Unguentum Cordes®	13A005	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol	Unguentum Cordes®	13A006	1
Ichthyol	Paraffin, white	13A010	2
Ichthyol	Unguentum Cordes®	13A015	1
Ichthyol	Unguentum Cordes®	13A029	2
Ichthyol	Unguentum Cordes®	13A030	2
Ichthyol	Unguentum Cordes®	13A031	2
ichthyol	Unguentum Cordes®	13A032	1
Ichthyol	Unguentum Cordes®	13A032	2
Ichthyol	Unguentum Cordes®	13A034	1
Ichthyol	Unguentum Cordes®	13A042	2
Ichthyol	Unguentum Cordes®	13A043	4
Ichthyol	Unguentum Cordes®	13A047	2
Ichthyol	Unguentum Cordes®	13A048	1
Ichthyol	Unguentum Cordes®	13A050	5
Ichthyol	Unguentum Cordes®	13A052	1
Ichthyol	Unguentum Cordes®	13A053	1
Ichthyol	Unguentum Cordes®	13A055	2
Ichthyol	Unguentum Cordes®	13A067	1
Ichthyol	Unguentum Cordes®	13A068	1
Ichthyol	Unguentum Cordes®	13A089	2
ichthyol	Unguentum Cordes®	13A090	1
Ichthyol	Unguentum Cordes®	13A090	3
ichthyol	Unguentum Cordes®	13A1008	1
Ichthyol	Unguentum Cordes®	13A106	2
Ichthyol	Unguentum Cordes®	13A107	1
Ichthyol	Unguentum Cordes®	13A109	1
Ichthyol	Unguentum Cordes®	13A111	1
Ichthyol	Unguentum Cordes®	13A112	2
ICHTHYOL	Unguentum Cordes®	13A135	1
Ichthyol	Unguentum Cordes®	13A136	1
Ichthyol	Unguentum Cordes®	13A138	3
Ichthyol	Unguentum Cordes®	13A140	1
Ichthyol	Unguentum Cordes®	13A141	1
Ichthyol	Unguentum Cordes®	13A142	1
Ichthyol	Unguentum Cordes®	13A153	1
Ichthyol	Unguentum Cordes®	13A159	2
Ichthyol	Unguentum Cordes®	13A166	2
Ichthyol	Unguentum Cordes®	13A171	1
Ichthyol	Unguentum Cordes®	13A172	3
Ichthyol	Unguentum Cordes®	13A178	2
Ichthyol	Unguentum Cordes®	13A180	1
Ichthyol	Unguentum Cordes®	14031409	1
Ichthyol	Unguentum Cordes®	14121203	1
ichthyol	Unguentum Cordes®	1413M-02532	1
Ichthyol	Unguentum Cordes®	14A005	1
Ichthyol	Unguentum Cordes®	14A009	1
Ichthyol	Unguentum Cordes®	14A057	3
Ichthyol	Unguentum Cordes®	14A060	1
Ichthyol	Unguentum Cordes®	14A061	1
Ichthyol	Unguentum Cordes®	14A063	1
Ichthyol	Unguentum Cordes®	14A079	1
ichthyol	Unguentum Cordes®	14A095	1
Ichthyol	Unguentum Cordes®	14A095	2
Ichthyol	Unguentum Cordes®	14A098	1
ichthyol	Unguentum Cordes®	14a113	1
Ichthyol	Unguentum Cordes®	14A113	1
Ichthyol	Unguentum Cordes®	14A114	1
ICHTHYOL	Unguentum Cordes®	14A114	1
Ichthyol	Unguentum Cordes®	14A116	1
Ichthyol	Unguentum Cordes®	14A117	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
ICHTHYOL	Unguentum Cordes®	14A117	1
Ichthyol	Unguentum Cordes®	14A132	1
Ichthyol	Unguentum Cordes®	14A171	2
ICHTHYOL	Unguentum Cordes®	14A171	1
ichthyol	Unguentum Cordes®	14A172	1
Ichthyol	Unguentum Cordes®	14A172	3
Ichthyol	Unguentum Cordes®	14A173	2
Ichthyol	Unguentum Cordes®	14A179	1
ICHTHYOL	Unguentum Cordes®	15A011	1
Ichthyol	Unguentum Cordes®	15A020	1
Ichthyol	Unguentum Cordes®	15A021	2
Ichthyol	Unguentum Cordes®	15A023	1
Ichthyol	Unguentum Cordes®	15A038	1
Ichthyol	Unguentum Cordes®	15A040	1
Ichthyol	Unguentum Cordes®	15A042	3
Ichthyol	Unguentum Cordes®	15A-042	1
Ichthyol	Unguentum Cordes®	15A060	2
ichthyol	Unguentum Cordes®	15A061	1
Ichthyol	Unguentum Cordes®	15A061	1
Ichthyol	Unguentum Cordes®	15A062	2
Ichthyol	Unguentum Cordes®	15A073	3
Ichthyol	Unguentum Cordes®	15A074	1
Ichthyol	Unguentum Cordes®	15A075	1
Ichthyol	Unguentum Cordes®	15A076	1
Ichthyol	Unguentum Cordes®	15A079	3
Ichthyol	Unguentum Cordes®	15A089	2
ICHTHYOL	Unguentum Cordes®	15a089	1
Ichthyol	Unguentum Cordes®	15A091	2
Ichthyol	Unguentum Cordes®	15A092	3
Ichthyol	Unguentum Cordes®	15A093	2
Ichthyol	Unguentum Cordes®	15A106	1
Ichthyol	Unguentum Cordes®	15A107	2
Ichthyol	Unguentum Cordes®	15A108	2
Ichthyol	Unguentum Cordes®	15A123	2
ichthyol	Unguentum Cordes®	15A124	2
Ichthyol	Unguentum Cordes®	15A124	2
ichthyol	Unguentum Cordes®	15A125	1
Ichthyol	Unguentum Cordes®	15A137	1
ichthyol	Unguentum Cordes®	15A139	1
Ichthyol	Unguentum Cordes®	15A140	3
Ichthyol	Unguentum Cordes®	15A142	1
Ichthyol	Unguentum Cordes®	15A148	5
Ichthyol	Unguentum Cordes®	15A150	1
Ichthyol	Unguentum Cordes®	15A155	1
Ichthyol	Unguentum Cordes®	15A156	1
Ichthyol	Unguentum Cordes®	15a159	1
Ichthyol	Unguentum Cordes®	15A159	1
Ichthyol	Unguentum Cordes®	15A191	7
Ichthyol	Unguentum Cordes®	15A192	3
Ichthyol	Unguentum Cordes®	15A087	1
Ichthyol	Unguentum Cordes®	16A011	1
Ichthyol	Unguentum Cordes®	16A022	1
Ichthyol	Unguentum Cordes®	16A023	1
Ichthyol	Unguentum Cordes®	16A045	1
Ichthyol	Unguentum Cordes®	16A047	1
Ichthyol	Unguentum Cordes®	16A048	2
Ichthyol	Unguentum Cordes®	16A058	3
Ichthyol	Unguentum Cordes®	16A061	4
Ichthyol	Unguentum Cordes®	16A077	1
Ichthyol	Unguentum Cordes®	16A082	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol	Unguentum Cordes®	16A083	1
Ichthyol	Unguentum Cordes®	16A085	3
Ichthyol	Unguentum Cordes®	16A099	5
ichthyol	Unguentum Cordes®	16A101	4
Ichthyol	Unguentum Cordes®	16A101	1
Ichthyol	Unguentum Cordes®	16A102	3
ichthyol	Unguentum Cordes®	16A119	1
Ichthyol	Unguentum Cordes®	16A119	1
Ichthyol	Unguentum Cordes®	16A121	1
Ichthyol	Unguentum Cordes®	16A122	3
Ichthyol	Unguentum Cordes®	16A123	2
Ichthyol	Unguentum Cordes®	16A124	1
ichthyol	Unguentum Cordes®	16A140	1
Ichthyol	Unguentum Cordes®	16A140	3
Ichthyol	Unguentum Cordes®	16A142	1
ichthyol	Unguentum Cordes®	16A143	1
Ichthyol	Unguentum Cordes®	16A155	1
Ichthyol	Unguentum Cordes®	16A16	1
Ichthyol	Unguentum Cordes®	16A173	3
ichthyol	Unguentum Cordes®	16A176	1
Ichthyol	Unguentum Cordes®	16a176	1
Ichthyol	Unguentum Cordes®	16A176	3
Ichthyol	Unguentum Cordes®	16A178	1
Ichthyol	Unguentum Cordes®	16A183	8
Ichthyol	Unguentum Cordes®	16a184	1
Ichthyol	Unguentum Cordes®	16A184	6
ICHTHYOL	Unguentum Cordes®	16A184	1
Ichthyol	Unguentum Cordes®	16A210	3
ICHTHYOL	Unguentum Cordes®	170A002	1
Ichthyol	Unguentum Cordes®	174A053	1
Ichthyol	Unguentum Cordes®	17A002	2
ichthyol	Unguentum Cordes®	17a003	1
ichthyol	Unguentum Cordes®	17A003	1
Ichthyol	Unguentum Cordes®	17A003	4
Ichthyol	Unguentum Cordes®	17A004	6
Ichthyol	Unguentum Cordes®	17a005	2
Ichthyol	Unguentum Cordes®	17A005	7
Ichthyol	Unguentum Cordes®	17A007	6
ichthyol	Unguentum Cordes®	17A0075535	1
Ichthyol	Unguentum Cordes®	17A019	1
Ichthyol	Unguentum Cordes®	17A045	3
Ichthyol	Unguentum Cordes®	17A049	1
ichthyol	Unguentum Cordes®	17A051	1
Ichthyol	Unguentum Cordes®	17A051	2
ICHTHYOL	Unguentum Cordes®	17A051	1
Ichthyol	Unguentum Cordes®	17A053	2
Ichthyol	Unguentum Cordes®	17A055	1
Ichthyol	Unguentum Cordes®	17A056	2
ICHTHYOL	Unguentum Cordes®	17A057	2
Ichthyol	Unguentum Cordes®	17A067	2
Ichthyol	Unguentum Cordes®	17A069	2
Ichthyol	Unguentum Cordes®	17A084	8
ICHTHYOL	Unguentum Cordes®	17A084	1
Ichthyol	Unguentum Cordes®	17A085	5
Ichthyol	Unguentum Cordes®	17A087	2
Ichthyol	Unguentum Cordes®	17A098	1
Ichthyol	Unguentum Cordes®	17A101	1
Ichthyol	Unguentum Cordes®	17A105	3
Ichthyol	Unguentum Cordes®	17A106	2
Ichthyol	Unguentum Cordes®	17A107	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol	Unguentum Cordes®	17A112	2
Ichthyol	Unguentum Cordes®	17A113	3
Ichthyol	Unguentum Cordes®	17A126	1
Ichthyol	Unguentum Cordes®	17A127	3
Ichthyol	Unguentum Cordes®	17A142	1
ichthyol	Unguentum Cordes®	17A163	2
Ichthyol	Unguentum Cordes®	17A164	4
Ichthyol	Unguentum Cordes®	17A174	1
Ichthyol	Unguentum Cordes®	17A216	2
Ichthyol	Unguentum Cordes®	17A217	1
Ichthyol	Unguentum Cordes®	17A218	1
Ichthyol	Unguentum Cordes®	17A052	1
ICHTHYOL	Paraffin, white	18006401	3
ichthyol	Unguentum Cordes®	18A001	1
ichthyol	Unguentum Cordes®	18A003	1
Ichthyol	Unguentum Cordes®	18A006	2
Ichthyol	Unguentum Cordes®	18A007	1
Ichthyol	Unguentum Cordes®	18A049	2
Ichthyol	Unguentum Cordes®	18A051	1
ichthyol	Unguentum Cordes®	18A065	1
ichthyol	Unguentum Cordes®	18A084	3
Ichthyol	Unguentum Cordes®	18A084	2
Ichthyol	Unguentum Cordes®	18A087	1
Ichthyol	Unguentum Cordes®	18A101	1
Ichthyol	Unguentum Cordes®	18A105	2
ICHTHYOL	Unguentum Cordes®	18A11	1
Ichthyol	Unguentum Cordes®	18A110	4
ichthyol	Unguentum Cordes®	18a111	1
ichthyol	Unguentum Cordes®	18A111	1
Ichthyol	Unguentum Cordes®	18A112	9
ICHTHYOL	Unguentum Cordes®	18A112	1
Ichthyol	Unguentum Cordes®	18A113	4
Ichthyol	Unguentum Cordes®	18A114	1
ICHTHYOL	Unguentum Cordes®	18A130	1
ichthyol	Unguentum Cordes®	18A132	1
ICHTHYOL	Unguentum Cordes®	18A132	1
Ichthyol	Unguentum Cordes®	18A156	5
ICHTHYOL	Unguentum Cordes®	18A156	1
Ichthyol	Unguentum Cordes®	18A166	1
Ichthyol	Unguentum Cordes®	18A2003	1
Ichthyol	Unguentum Cordes®	18A215	3
Ichthyol	Unguentum Cordes®	18A216	1
ichthyol	Unguentum Cordes®	18a223	1
Ichthyol	Unguentum Cordes®	18A223	6
Ichthyol	Unguentum Cordes®	18a224	1
Ichthyol	Unguentum Cordes®	18A224	3
Ichthyol	Unguentum Cordes®	18A243	1
Ichthyol	Unguentum Cordes®	18A244	1
Ichthyol	Unguentum Cordes®	18A248	2
Ichthyol	Unguentum Cordes®	18A252	1
Ichthyol	Unguentum Cordes®	18A253	2
ichthyol	Unguentum Cordes®	18A256	1
Ichthyol	Unguentum Cordes®	18A258	1
Ichthyol	Unguentum Cordes®	19A001	1
Ichthyol	Unguentum Cordes®	19A005	1
ICHTHYOL	Unguentum Cordes®	19A005	1
ichthyol	Unguentum Cordes®	19A006	1
Ichthyol	Unguentum Cordes®	19A006	1
ICHTHYOL	Unguentum Cordes®	19A006	1
Ichthyol	Unguentum Cordes®	19A006/P-291021	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol	Unguentum Cordes®	19A008	2
Ichthyol	Unguentum Cordes®	19A0149	1
Ichthyol	Unguentum Cordes®	19A0153	8
Ichthyol	Unguentum Cordes®	19A0154	2
Ichthyol	Unguentum Cordes®	19A0181	1
Ichthyol	Unguentum Cordes®	19A0183	1
Ichthyol	Unguentum Cordes®	19A0184	1
Ichthyol	Unguentum Cordes®	19A020	2
Ichthyol	Unguentum Cordes®	19A0204	2
Ichthyol	Unguentum Cordes®	19A021	1
Ichthyol	Unguentum Cordes®	19A0256	1
ICHTHYOL	Unguentum Cordes®	19A0257	1
ichthyol	Unguentum Cordes®	19A026	1
Ichthyol	Unguentum Cordes®	19a026	1
Ichthyol	Unguentum Cordes®	19A026	1
ichthyol	Unguentum Cordes®	19a0262	1
ichthyol	Unguentum Cordes®	19A0262	1
Ichthyol	Unguentum Cordes®	19A0262	3
Ichthyol	Unguentum Cordes®	19A029	2
Ichthyol	Unguentum Cordes®	19A111	1
Ichthyol	Unguentum Cordes®	19A112	1
ichthyol	Unguentum Cordes®	20201112-1	1
Ichthyol	Unguentum Cordes®	20A0002	1
Ichthyol	Unguentum Cordes®	20A0028	1
ICHTHYOL	Unguentum Cordes®	20A0028	1
Ichthyol	Unguentum Cordes®	20A0035	2
Ichthyol	Unguentum Cordes®	20A0045	1
ichthyol	Unguentum Cordes®	20a0049	1
ichthyol	Unguentum Cordes®	20A0049	1
Ichthyol	Unguentum Cordes®	20A0049	5
ICHTHYOL	Unguentum Cordes®	20A0049	1
ichthyol	Unguentum Cordes®	20A0060	1
Ichthyol	Unguentum Cordes®	20A0060	1
ichthyol	Unguentum Cordes®	20A0061	1
Ichthyol	Unguentum Cordes®	20A0084	3
Ichthyol	Unguentum Cordes®	20A0090	1
Ichthyol	Unguentum Cordes®	20A0093	1
ichthyol	Unguentum Cordes®	20A0094	1
Ichthyol	Unguentum Cordes®	20A0095	1
Ichthyol	Unguentum Cordes®	20A0105	3
Ichthyol	Unguentum Cordes®	20A0111	2
Ichthyol	Unguentum Cordes®	20A0115	2
Ichthyol	Unguentum Cordes®	20A0116	1
ichthyol	Unguentum Cordes®	20A0124	1
ICHTHYOL	Unguentum Cordes®	20A0124	1
Ichthyol	Unguentum Cordes®	20A0131	1
Ichthyol	Unguentum Cordes®	20A0149	2
Ichthyol	Unguentum Cordes®	20A0150	1
Ichthyol	Unguentum Cordes®	20A0151	1
ICHTHYOL	Unguentum Cordes®	20A0153	1
Ichthyol	Unguentum Cordes®	20A0172	4
Ichthyol	Unguentum Cordes®	20A0173	4
Ichthyol	Unguentum Cordes®	20A0211	1
ICHTHYOL	Unguentum Cordes®	20A0211	1
Ichthyol	Unguentum Cordes®	20AO211	1
Ichthyol	Unguentum Cordes®	21A0055	2
Ichthyol	Unguentum Cordes®	21A0056	1
Ichthyol	Unguentum Cordes®	21A0057	2
Ichthyol	Unguentum Cordes®	21A0058	2
Ichthyol	Unguentum Cordes®	21A0064	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol	Unguentum Cordes®	21A0086	1
Ichthyol	Unguentum Cordes®	21A0100	1
Ichthyol	Unguentum Cordes®	21A0102	1
Ichthyol	Unguentum Cordes®	21A0144	2
Ichthyol	Unguentum Cordes®	21A0150	2
Ichthyol	Unguentum Cordes®	21A0151	1
Ichthyol	Unguentum Cordes®	21A0163	2
ichthyol	Unguentum Cordes®	21A0164	1
Ichthyol	Unguentum Cordes®	21A0184	3
Ichthyol	Unguentum Cordes®	21A0190	1
Ichthyol	Unguentum Cordes®	21A0201	1
Ichthyol	Unguentum Cordes®	24022014B	1
Ichthyol	Unguentum Cordes®	26101201	1
Ichthyol	Unguentum Cordes®	20A0105	1
ichthyol	Unguentum Cordes®	2QA0035	1
Ichthyol	Unguentum Cordes®	30092014C	1
Ichthyol	Unguentum Cordes®	4091516	1
Ichthyol	Unguentum Cordes®	414022-2-P	1
Ichthyol	Unguentum Cordes®	5052014B	1
Ichthyol	Unguentum Cordes®	7011501	1
Ichthyol	Wool alcohol ointment DAB	83742110	2
Ichthyol	Unguentum Cordes®	Ungt5/16	1
ICHTHYOL_GESELLSCHAFFT	Unguentum Cordes®	18A190	1
ICHTHYOL_GESELLSCHAFFT	Unguentum Cordes®	18A248	1
ICHTHYOL_GESELLSCHAFFT	Unguentum Cordes®	19A0181	1
ichthyolAllia	Unguentum Cordes®	19A111	1
IchthyolAnzag 10.05.2012	Unguentum Cordes®	11A234	1
Ichthyol-Cordes/ Phönix	Unguentum Cordes®	21A0056	1
Ichthyol-G. / Sanacorp	Unguentum Cordes®	18A223	1
Ichthyol-G./AHD	Unguentum Cordes®	18A223	1
ICHTHYOL-G./Noweda	Unguentum Cordes®	16A155	1
Ichthyol-G./Noweda	Unguentum Cordes®	17A005	2
Ichthyol-G./Noweda	Unguentum Cordes®	17A085	1
ICHTHYOL-G./Noweda	Unguentum Cordes®	17A098	1
ICHTHYOL-G./Noweda	Unguentum Cordes®	17A-126	1
ICHTHYOL-G./Noweda	Unguentum Cordes®	18A050	1
Ichthyol-G./Noweda	Unguentum Cordes®	18A156	1
ICHTHYOL-G./Noweda	Unguentum Cordes®	20A0105	1
ICHTHYOL-G./Noweda	Unguentum Cordes®	20A0151	2
ICHTHYOL-G./Noweda	Unguentum Cordes®	20A0172	1
ichthyol-G.	Unguentum Cordes®	16A099	1
Ichthyol-Ges./Gehe	Unguentum Cordes®	19A020	1
Ichthyol-Ges./Gehe	Unguentum Cordes®	20A0034	1
IchthyolGes./Noweda	Unguentum Cordes®	18A156	1
IchthyolGes./Noweda	Unguentum Cordes®	18A223	1
IchthyolGes./Noweda	Unguentum Cordes®	20A0084	1
IchthyolGes./Noweda	Unguentum Cordes®	20A0105	1
Ichthyol-Ges./Noweda	Unguentum Cordes®	21A0055	1
ICHTHYOL-GES.	Unguentum Cordes®	19A0182	1
ICHTHYOL-GES.	Unguentum Cordes®	20A0115	1
ICHTHYOL-GES.	Unguentum Cordes®	21A0056	1
ICHTHYOL-GES/GEHE	Unguentum Cordes®	10A016	1
ICHTHYOL-GES/GEHE	Unguentum Cordes®	11A040	1
ICHTHYOL-GES/GEHE	Unguentum Cordes®	12A152	1
Ichthyol-Ges/Noweda	Unguentum Cordes®	17A018	1
Ichthyol-Ges	Unguentum Cordes®	12A184	1
Ichthyol-Gesell./Anzag ...	Unguentum Cordes®	17A085	1
Ichthyol-Gesell./Anzag ...	Unguentum Cordes®	17A087	1
Ichthyol-Gesellsch. Cor...	Unguentum Cordes®	17A045	2
Ichthyol-Gesellsch. Cor...	Unguentum Cordes®	17A142	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellsch. Cor...	Unguentum Cordes®	18A111	1
ICHTHYOL-Gesellsch. Cor...	Unguentum Cordes®	18A131	1
ICHTHYOL-Gesellsch. Cor...	Unguentum Cordes®	19A004	1
ICHTHYOL-Gesellsch. Cor...	Unguentum Cordes®	19A111	1
ICHTHYOL-Gesellsch. Cor...	Unguentum Cordes®	20A0028	1
Ichthyol-Gesellsch./GEHE	Unguentum Cordes®	18A051	2
Ichthyol-Gesellsch./GEHE	Unguentum Cordes®	18A216	1
Ichthyol-Gesellsch.	Unguentum Cordes®	18A232	1
Ichthyol-Gesellsch.	Unguentum Cordes®	19A0153	1
Ichthyol-Gesellschaf	Unguentum Cordes®	17A126	1
Ichthyol-Gesellschaf	Unguentum Cordes®	18A131	1
Ichthyol-Gesellschaf	Unguentum Cordes®	19A0149	1
Ichthyol-Gesellschafft ...	Unguentum Cordes®	18A048	1
Ichthyol-Gesellschafft ...	Unguentum Cordes®	18A070	1
ICHTHYOL-GESELLSCHAFT ...	Unguentum Cordes®	17A174	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	18A111	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	17A007	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	17A087	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	20A0049	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	20A0153	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	20A0173	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	17A163	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	18A050	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	21A0231	1
Ichthyol-Gesellschaft / E	Unguentum Cordes®	12A152	1
Ichthyol-Gesellschaft / G	Unguentum Cordes®	12A064	1
Ichthyol-Gesellschaft / G	Unguentum Cordes®	12A118	2
Ichthyol-Gesellschaft / G	Unguentum Cordes®	12A123	1
Ichthyol-Gesellschaft / G	Unguentum Cordes®	13A042	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	15A140	1
Ichthyolgesellschaft / ...	Unguentum Cordes®	17A019	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	18A110	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	18A190	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	19A003	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	19A005	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	20AOQ28	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	19A0149	1
Ichthyol-Gesellschaft / K	Unguentum Cordes®	11A202	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	15A061	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	18A156	2
Ichthyol-Gesellschaft /...	Unguentum Cordes®	19A020	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	20A0150	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	21A0056	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	15A020	2
Ichthyol-Gesellschaft /...	Unguentum Cordes®	16A085	2
Ichthyol-Gesellschaft /...	Unguentum Cordes®	16A099	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	18A101	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	18A113	1
ICHTHYOL-GESELLSCHAFT /...	Unguentum Cordes®	18A216	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	21A0163	1
ICHTHYOL-GESELLSCHAFT /...	Unguentum Cordes®	18A112	1
ICHTHYOL-GESELLSCHAFT /...	Unguentum Cordes®	19A004	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	17A005	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	17A112	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	19A008	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	20A0152	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	21A0150	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	15A023	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	15A124	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	17A004	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft /...	Unguentum Cordes®	20A0192	1
Ichthyol-Gesellschaft /	Unguentum Cordes®	18A223	1
Ichthyol-Gesellschaft /	Unguentum Cordes®	18A232	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	18A111	1
Ichthyol-Gesellschaft /...	Unguentum Cordes®	18A113	1
Ichthyol-Gesellschaft	Unguentum Cordes®	10A026	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0181	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A061	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A112	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A156	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A008	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0153	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	15A108	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	16A121	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	16A124	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	16A143	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	16A173	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A112	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A085	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A105	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A110	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A147	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A166	2
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A215	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A003	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0192	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	13A089	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	15A123	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	15A124	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	16A083	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A084-U20181115Ma4	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A004	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A101	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0153	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	16A111	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	18A113	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0028	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0150	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	12A184	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A223	1
ichthyol-Gesellschaft C...	Unguentum Cordes®	17A004	1
ichthyol-Gesellschaft C...	Unguentum Cordes®	17A045	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A085	1
ichthyol-Gesellschaft C...	Unguentum Cordes®	18A110	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A223	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0153	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0154	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0154	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	13A138	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	13A180	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	14A063	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	15A043	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A046	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A047	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0153	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A202	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A045	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A216	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A005	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A110	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A156	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0153	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A112	3
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A112	1
ICHTHYOL-Gesellschaft C...	Unguentum Cordes®	17A045	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	20A0153	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0172	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	11A187	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	12A185	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A223	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A176	2
ICHTHYOL-Gesellschaft C...	Unguentum Cordes®	18A110	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	17A004	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	21A0184	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	18A110	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	18A112	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	18A113	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	18A224	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	19A054	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	15A023	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	15A062	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A099	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A007	2
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A085	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A087	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A113	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0049	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0084	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0235	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20AD149	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	21A00075	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	21A0144	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	21AD150	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	22A0042	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	190560306	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A083	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A003	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	15A060	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	15A140	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A008	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0028	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	13A172	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	12A115	3
IchthyolGesellschaft Co...	Unguentum Cordes®	12A152	1
IchthyolGesellschaft Co...	Unguentum Cordes®	12A183	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	12A183	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	12A184	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	13A171	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	15A061	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	15A073	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	15A123	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	15A124	2
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A083	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A099	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A102	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A143	2
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A155	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	16A210	1
Ichthyol-Gesellschaft C...	Paraffin, white	17204201	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A004	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A005	3
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A007	3
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A045	2
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A067	4
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A084	4
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A085	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A087	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A101	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A104	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A113	2
Ichthyol-Gesellschaft C...	Unguentum Cordes®	17A127	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A048	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A051	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A107	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A110	3
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A112	5
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A113	3
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A132	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A156	2
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A190	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A223	6
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A224	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	18A232	4
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A001	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A003	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A004	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0153	3
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0154	1
ICHTHYOL-GESELLSCHAFT C...	Unguentum Cordes®	19A0154	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0181	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A0182	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19A128	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	19AD154	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0002	2
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A002	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0028	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0045	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0049	3
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0084	3
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0090	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0105	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0111	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0115	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0116	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0131	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0149	3
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0152	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0153	2
Ichthyol-Gesellschaft C...	Unguentum Cordes®	20A0172	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	21A0163	1
Ichthyol-Gesellschaft C...	Unguentum Cordes®	21A0114	1
Ichthyolgesellschaft Gehe	Unguentum Cordes®	17A005	1
Ichthyolgesellschaft I ...	Unguentum Cordes®	19A0149	1
Ichthyol-Gesellschaft, ...	Unguentum Cordes®	11A122	1
Ichthyol-Gesellschaft, ...	Unguentum Cordes®	11A162	1
Ichthyol-Gesellschaft, ...	Unguentum Cordes®	13A034	1
Ichthyol-Gesellschaft, ...	Unguentum Cordes®	13A050	1
Ichthyol-Gesellschaft, ...	Unguentum Cordes®	15A191	1
Ichthyol-Gesellschaft, ...	Unguentum Cordes®	16A123	1
Ichthyol-Gesellschaft, ...	Unguentum Cordes®	16A160	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft, ...	Unguentum Cordes®	17A057	1
Ichthyol-Gesellschaft, ...	Unguentum Cordes®	18A050	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	20A0092	1
Ichthyolgesellschaft/ A...	Unguentum Cordes®	20A0089	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	17A049	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	17A067	1
Ichthyol-gesellschaft/ ...	Unguentum Cordes®	10A216	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	14A005	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	16A013	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	18A130	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	20A0028	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	16A143	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	19A004	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	20A0152	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	16A061	2
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	17A106	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	18A131	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	16A044	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	16A141	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	17A056	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	18A107	1
Ichthyolgesellschaft/ P...	Unguentum Cordes®	21A0189	1
Ichthyolgesellschaft/ P...	Unguentum Cordes®	21A0231	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	19A003	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	19A006	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	19A0182	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	19A0184	1
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	19A111	2
Ichthyol-Gesellschaft/ ...	Unguentum Cordes®	20A0111	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	20A0153	1
Ichthyol-Gesellschaft/AHD	Unguentum Cordes®	17A056	1
Ichthyol-Gesellschaft/AHD	Unguentum Cordes®	17A112	1
Ichthyol-Gesellschaft/AHD	Unguentum Cordes®	17A142	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	18A113	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	15A139	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	17A049	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	19A020	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	19A0262	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	20A0045	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	19A0149	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	19A0154	2
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	19AO154	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	20A0084	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	20A0115	1
Ichthyol-Gesellschaft/A...	Unguentum Cordes®	20A0152	2
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	15A020	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	15A073	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	15A125	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	16A085	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	17A007	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	17A053	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	18A051	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	18A110	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	18A216	1
IchthyolGesellschaft/Gehe	Unguentum Cordes®	19A0149	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	19A0149	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	19A0256	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	19A0257	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	19A0257	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	19A128	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	20A0002	1
ICHTHYOL-Gesellschaft/G...	Unguentum Cordes®	20A0090	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	20A0105	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	20A0234	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	21A0201	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	20A0131	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	16A083	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	16A183	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	16A184	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	17A003	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	17A005	2
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	17A087	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	17A142	1
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	18A112	3
Ichthyol-Gesellschaft/G...	Unguentum Cordes®	18A223	1
Ichthyolgesellschaft/Je...	Unguentum Cordes®	20A0150	1
Ichthyol-Gesellschaft/K...	Unguentum Cordes®	16A101	1
Ichthyol-Gesellschaft/K...	Unguentum Cordes®	16A184	1
Ichthyol-Gesellschaft/N...	Unguentum Cordes®	17A051	1
Ichthyol-Gesellschaft/N...	Unguentum Cordes®	17A105	1
Ichthyol-Gesellschaft/N...	Unguentum Cordes®	17A106	1
Ichthyol-Gesellschaft/N...	Unguentum Cordes®	18A049	1
Ichthyol-Gesellschaft/N...	Unguentum Cordes®	18A051	1
Ichthyol-Gesellschaft/N...	Unguentum Cordes®	18A244	1
Ichthyol-Gesellschaft/N...	Unguentum Cordes®	18A248	1
Ichthyol-Gesellschaft/N...	Unguentum Cordes®	19A004	1
ICHTHYOL-GESELLSCHAFT/N...	Unguentum Cordes®	19A0149	4
Ichthyol-gesellschaft/N...	Unguentum Cordes®	19A111	1
Ichthyol-Gesellschaft/N...	Unguentum Cordes®	20A0028	2
ICHTHYOL-GESELLSCHAFT/N...	Unguentum Cordes®	20A0090	1
Ichthyolgesellschaft/PH	Unguentum Cordes®	19A112	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	13A053	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	14a114	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	16A013	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	16A083	1
ICHTHYOL-GESELLSCHAFT/P...	Unguentum Cordes®	16A140	1
ICHTHYOL-GESELLSCHAFT/P...	Unguentum Cordes®	16A173	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	16A210	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	17A007	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	17A105	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	18A048	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	18A050	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	18A051	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	18A070	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	19A004	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	19A0154	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	19A0181	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	19A111	2
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	20A0049	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	20A0084	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	20A0098	2
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	20A0105	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	21A0114	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	14A095	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	14A179	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	15A124	1
ICHTHYOL-GESELLSCHAFT/P...	Unguentum Cordes®	15A148	1
ICHTHYOL-GESELLSCHAFT/P...	Unguentum Cordes®	16A121	1
ICHTHYOL-GESELLSCHAFT/P...	Unguentum Cordes®	16A144	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	16A183	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	16A184	2
ICHTHYOL-GESELLSCHAFT/P...	Unguentum Cordes®	16A210	2
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	17A004	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	17A049	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	17A084	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	17A105	1
ICHTHYOl-GESELLSCHAFT/P...	Unguentum Cordes®	17A126	1
ICHTHYOL-GESELLSCHAFT/P...	Unguentum Cordes®	18A048	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	18A051	1
IchthyolGesellschaft/Ph...	Unguentum Cordes®	18A110	3
ICHTHYOL-Gesellschaft/P...	Unguentum Cordes®	18A110	1
IchthyolGesellschaft/Ph...	Unguentum Cordes®	18A113	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	18A113	1
ICHTHYOL-Gesellschaft/P...	Unguentum Cordes®	18A113	1
ICHTHYOL-GESELLSCHAFT/P...	Unguentum Cordes®	18A130	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	18A156	1
ICHTHYOL-GESELLSCHAFT/P...	Unguentum Cordes®	18A166	1
ICHTHYOL-Gesellschaft/P...	Unguentum Cordes®	18A224	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	19A0149	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	19A0153	1
IchthyolGesellschaft/Ph...	Unguentum Cordes®	19A0154	1
ICHTHYOL-Gesellschaft/P...	Unguentum Cordes®	19A0154	2
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	19A0257	1
IchthyolGesellschaft/Ph...	Unguentum Cordes®	20A0090	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	20A0090	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	20A0105	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	20A0151	2
IchthyolGesellschaft/Ph...	Unguentum Cordes®	20A0172	1
Ichthyol-Gesellschaft/P...	Unguentum Cordes®	21A0163	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	16A153	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	17A069	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	18A048	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	10A131	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	17A007	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	17A085	2
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	17A101	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	18A101	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	18A190	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	19A004	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	19A0149	2
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	20A0105	1
ichthyol-gesellschaft/S...	Unguentum Cordes®	20A0150	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	17A101	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	17A106	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	17A164	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	19A020	1
Ichthyol-Gesellschaft/S...	Unguentum Cordes®	69A0153	1
Ichthyol-Gesellschaft/V...	Unguentum Cordes®	12A183	1
Ichthyol-Gesellschaft	Unguentum Cordes®	11A085	1
Ichthyol-Gesellschaft	Unguentum Cordes®	11A177	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	11A202	1
Ichthyol-Gesellschaft	Unguentum Cordes®	12051805	1
Ichthyol-Gesellschaft	Unguentum Cordes®	120A0049	1
Ichthyol-Gesellschaft	Unguentum Cordes®	12A053	1
Ichthyol-Gesellschaft	Unguentum Cordes®	12A102	1
Ichthyol-Gesellschaft	Unguentum Cordes®	12A115	2
Ichthyol-Gesellschaft	Unguentum Cordes®	12A123	1
Ichthyol-Gesellschaft	Unguentum Cordes®	12A130	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	12A155	1
Ichthyol-Gesellschaft	Unguentum Cordes®	12A183	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
ICHTHYOL-Gesellschaft	Unguentum Cordes®	12A184	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	12A184	1
Ichthyol-Gesellschaft	Unguentum Cordes®	12A205	1
Ichthyol-Gesellschaft	Unguentum Cordes®	12A206	1
Ichthyol-Gesellschaft	Unguentum Cordes®	13101802	1
Ichthyol-Gesellschaft	Unguentum Cordes®	13A034	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	13A043	3
Ichthyol-Gesellschaft	Unguentum Cordes®	13A055	1
ichthyol-gesellschaft	Unguentum Cordes®	13A068	2
Ichthyol-Gesellschaft	Unguentum Cordes®	13A142	1
Ichthyol-Gesellschaft	Unguentum Cordes®	13A172	1
Ichthyol-Gesellschaft	Unguentum Cordes®	13A180	3
Ichthyol-Gesellschaft	Unguentum Cordes®	14A056	1
Ichthyol-Gesellschaft	Unguentum Cordes®	14A057	1
Ichthyol-Gesellschaft	Unguentum Cordes®	14A063	1
Ichthyol-Gesellschaft	Unguentum Cordes®	14A079	1
Ichthyol-Gesellschaft	Unguentum Cordes®	14A095	1
Ichthyol-Gesellschaft	Unguentum Cordes®	14A112	1
Ichthyol-Gesellschaft	Unguentum Cordes®	14A114	2
Ichthyol-Gesellschaft	Unguentum Cordes®	14A115	2
Ichthyol-Gesellschaft	Unguentum Cordes®	14A117	1
Ichthyol-Gesellschaft	Unguentum Cordes®	14A172	2
Ichthyol-Gesellschaft	Unguentum Cordes®	14A179	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	14A179	1
Ichthyol-Gesellschaft	Unguentum Cordes®	14A213	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A021	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A040	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A041	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A042	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	15A042	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A043	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	15A043	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A062	2
Ichthyol-Gesellschaft	Unguentum Cordes®	15A089	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A090	2
Ichthyol-Gesellschaft	Unguentum Cordes®	15A091	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	15A091	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A092	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A093	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A106	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	15A12	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A124	4
Ichthyol-Gesellschaft	Unguentum Cordes®	15A139	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A140	2
Ichthyol-Gesellschaft	Unguentum Cordes®	15A141	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15a142	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A142	4
Ichthyol-Gesellschaft	Unguentum Cordes®	15A148	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A149	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A150	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A156	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	15A156	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A191	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	15A191	1
Ichthyol-Gesellschaft	Unguentum Cordes®	15A060	1
Ichthyol-Gesellschaft	Unguentum Cordes®	160726UC	1
Ichthyol-Gesellschaft	Paraffin, white	160829VA	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A022	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A022/170117UC	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A044	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft	Unguentum Cordes®	16A045	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A046	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A047	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A048	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	16a048	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A058	2
Ichthyol-Gesellschaft	Unguentum Cordes®	16A061	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A073	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A083	4
Ichthyol-Gesellschaft	Unguentum Cordes®	16A085	3
Ichthyol-Gesellschaft	Unguentum Cordes®	16A099	3
Ichthyol-Gesellschaft	Unguentum Cordes®	16A101	4
Ichthyol-Gesellschaft	Unguentum Cordes®	16A102	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	16A102	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A119	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A121	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A122	5
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	16A123	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A124	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A137	4
Ichthyol-Gesellschaft	Unguentum Cordes®	16a139	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A139	3
Ichthyol-Gesellschaft	Unguentum Cordes®	16A140	3
Ichthyol-Gesellschaft	Unguentum Cordes®	16A141	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	16a141	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	16A141	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A142	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A143	2
Ichthyol-Gesellschaft	Unguentum Cordes®	16A144	2
Ichthyol-Gesellschaft	Unguentum Cordes®	16A153	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A155	3
Ichthyol-Gesellschaft	Unguentum Cordes®	16a173	1
ICHTHYOL-Gesellschaft	Unguentum Cordes®	16A173	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A183	1
Ichthyol-Gesellschaft	Unguentum Cordes®	16A184	3
Ichthyol-Gesellschaft	Unguentum Cordes®	16A210	3
Ichthyol-Gesellschaft	Eye paraffin	17052010	1
Ichthyol-Gesellschaft	Paraffin, white	17347903	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A002	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A003	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A004	2
Ichthyol-Gesellschaft	Unguentum Cordes®	17A005	2
Ichthyol-Gesellschaft	Unguentum Cordes®	17A007	2
Ichthyol-Gesellschaft	Unguentum Cordes®	17A009	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A045	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A045	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A049	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A049	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A051	4
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A052	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A053	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A053	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A054	3
Ichthyol-Gesellschaft	Unguentum Cordes®	17A055	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A056	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A056	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A057	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A057	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A067	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A069	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft	Unguentum Cordes®	17A070	2
Ichthyol-Gesellschaft	Unguentum Cordes®	17A084	5
Ichthyol-Gesellschaft	Unguentum Cordes®	17A085	5
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A085	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A087	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A104	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A104	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A105	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A106	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A112	2
Ichthyol-Gesellschaft	Unguentum Cordes®	17A113	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A113	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A126	3
Ichthyol-Gesellschaft	Unguentum Cordes®	17A127	3
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A127	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A142	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A163	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	17A163	1
Ichthyol-Gesellschaft	Unguentum Cordes®	17A164	3
Ichthyol-Gesellschaft	Unguentum Cordes®	17A218	2
Ichthyol-Gesellschaft	Unguentum Cordes®	181221-E02	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A006	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A048	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	18A048	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A049	3
Ichthyol-gesellschaft	Unguentum Cordes®	18A050	2
Ichthyol-Gesellschaft	Unguentum Cordes®	18A051	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	18A051	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18a067	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A067	3
Ichthyol-Gesellschaft	Unguentum Cordes®	18A070	3
Ichthyol-Gesellschaft	Unguentum Cordes®	18A105	2
Ichthyol-Gesellschaft	Unguentum Cordes®	18A107	4
Ichthyol-Gesellschaft	Unguentum Cordes®	18A110	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	18A110	2
Ichthyol-Gesellschaft	Unguentum Cordes®	18a111	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A111	4
Ichthyol-Gesellschaft	Unguentum Cordes®	18A112	4
ICHTHYOL-Gesellschaft	Unguentum Cordes®	18A112	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	18A113	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	18A130	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A147	2
Ichthyol-Gesellschaft	Unguentum Cordes®	18A156	1
ICHTHYOL-Gesellschaft	Unguentum Cordes®	18A156	2
Ichthyol-gesellschaft	Unguentum Cordes®	18A166	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A166	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	18A166	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A190	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A215	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A216	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A223	3
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	18A223	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A232	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A248	1
Ichthyol-Gesellschaft	Unguentum Cordes®	18A257	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A001	1
Ichthyol-gesellschaft	Unguentum Cordes®	19A003	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A003	3
Ichthyol-Gesellschaft	Unguentum Cordes®	19A004	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	19A004	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol-Gesellschaft	Unguentum Cordes®	19A006	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A008	5
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	19A0149	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A015	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A0153	3
Ichthyol-Gesellschaft	Unguentum Cordes®	19A0154	2
Ichthyolgesellschaft	Unguentum Cordes®	19A0181	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	19A0181	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A0182	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	19A0182	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A0183	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19a0184	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A0184	2
Ichthyol-Gesellschaft	Unguentum Cordes®	19A020	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A0256	2
Ichthyol-Gesellschaft	Unguentum Cordes®	19A0257	2
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	19A0257	1
Ichthyolgesellschaft	Unguentum Cordes®	19A0262	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A0262	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A112	1
Ichthyol-Gesellschaft	Unguentum Cordes®	19A128	1
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0002	2
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0034	2
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0035	1
Ichthyol-gesellschaft	Unguentum Cordes®	20A0049	1
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0049	2
ICHTHYOL-Gesellschaft	Unguentum Cordes®	20A0049	2
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0084	4
Ichthyol-gesellschaft	Unguentum Cordes®	20A0090	1
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0098	1
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0105	2
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0111	3
Ichthyol-Gesellschaft	Unguentum Cordes®	20a0115	1
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0116	1
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0126	1
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0150	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	20A0152	1
Ichthyol-Gesellschaft	Unguentum Cordes®	20A0172	1
Ichthyol-Gesellschaft	Unguentum Cordes®	20AO105	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21071806	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0057	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21a0058	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0058	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0064	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0075	1
ICHTHYOL-GESELLSCHAFT	Unguentum Cordes®	21A0075	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0114	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0150	2
IchthyolGesellschaft	Unguentum Cordes®	21A0184	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0190	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0198	1
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0201	2
Ichthyol-Gesellschaft	Unguentum Cordes®	21A0202	3
Ichthyol-Gesellschaft	Unguentum Cordes®	22A0025	1
Ichthyol-Gesellschaft	Unguentum Cordes®	23071802	1
Ichthyol-Gesellschaft	Unguentum Cordes®	23121702	1
Ichthyol-Gesellschaft	Unguentum Cordes®	31072015A	1
Ichthyol-Gesellschaft	Unguentum Cordes®	5052015A	1
Ichthyol-Gesellschaft	Unguentum Cordes®	6071714	1
ichthyol-GesellschaftCo...	Unguentum Cordes®	18A113	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
ichthyol-GesellschaftCo...	Unguentum Cordes®	18A223	1
Ichthyol-Gesellschft/Eb...	Unguentum Cordes®	17A084	1
Ichthyol-Geselschaft / ...	Unguentum Cordes®	18A223	1
Ichthyol-Geselschaft / ...	Unguentum Cordes®	20A0084	1
Ichthyol-Geselschaft/AHD	Unguentum Cordes®	18A112	1
Ichthyol-Geselschaft/AHD	Unguentum Cordes®	18A215	1
Ichthyol-Geselschaft/AHD	Unguentum Cordes®	19A006	1
Ichthyol-Geselschaft/AHD	Unguentum Cordes®	19A0256	1
Ichthyol-Geselschaft/AHD	Unguentum Cordes®	19A112	1
Ichthyol-Geselschaft/Ph...	Unguentum Cordes®	18A147	1
Ichthyol-Geselschaft	Unguentum Cordes®	22A0025	2
Ichthyol-Gesllschaft/GEHE	Unguentum Cordes®	17A007	1
Ichthyol-Gesllschaft/Ph...	Unguentum Cordes®	18A110	1
Ichthyol-Noweda	Unguentum Cordes®	17A105	1
IchthyolNoweda	Unguentum Cordes®	21A0163	2
Ichthyol-Phönix	Unguentum Cordes®	19A008	1
IchthyolSanacorp	Unguentum Cordes®	13A025	1
IchthyolSanacorp	Unguentum Cordes®	13A110	1
IchthyolSanacorp	Unguentum Cordes®	15A076	1
Ichtiol Gesellschaft/Ph...	Unguentum Cordes®	16A083	1
Ichtiol Geselschaft/All...	Unguentum Cordes®	19A0181	1
Ichtiol Geselschaft/All...	Unguentum Cordes®	19A0184	1
Ichtiol Geselschaft/All...	Unguentum Cordes®	19A0256	1
Ichtiol Geselschaft/All...	Unguentum Cordes®	19A111	1
Ichtiol Geselschaft/All...	Unguentum Cordes®	20A0002	1
Ichtiol Geselschaft/All...	Unguentum Cordes®	20A0049	1
Ichtiol Geselschaft/All...	Unguentum Cordes®	20A0105	1
Ichtiol Geselschaft/All...	Unguentum Cordes®	20A0149	1
Ichtiol Geselschaft/All...	Unguentum Cordes®	20A0211	1
Ichtiol-Geselschaft,Cor...	Unguentum Cordes®	16A144	1
Ichtiol-Geselschaft,Cor...	Unguentum Cordes®	17A126	1
Ichtol-Gesellschaft	Unguentum Cordes®	18A111	1
Ichtthyol / Noweda	Unguentum Cordes®	20A0049	2
Ichtthyol / Noweda	Unguentum Cordes®	20A0084	1
ichtxol-Gesellschaft/ G...	Unguentum Cordes®	17A126	1
ichtxol-Gesellschaft/ G...	Unguentum Cordes®	17A127	1
ichtxol-Gesellschaft/ G...	Unguentum Cordes®	18A048	1
ichtxol-Gesellschaft/ G...	Unguentum Cordes®	18A070	1
ichtxol-Gesellschaft/ G...	Unguentum Cordes®	18A107	1
ichtxol-Gesellschaft/ G...	Unguentum Cordes®	18A191	2
Ichtyhol Gesellschaft//...	Unguentum Cordes®	17A052	1
Ichtyhol Gesellschaft	Unguentum Cordes®	16a045	1
Ichtyhol Gesellschaft	Unguentum Cordes®	16A140	1
Ichtyhol Gesellschaft	Unguentum Cordes®	16A142	1
Ichtyhol Gesellschaft	Unguentum Cordes®	16A183	1
ichtyhol gmbh/Alliance ...	Unguentum Cordes®	16A183	1
ICHTYHOL/ Fiebig	Unguentum Cordes®	17A098	1
ICHTYHOL/ Fiebig	Unguentum Cordes®	18A050	1
ICHTYHOL/ Fiebig	Unguentum Cordes®	18A166	2
Ichtyhol/AHD	Unguentum Cordes®	18A111	1
Ichtyhol/Phönix	Unguentum Cordes®	18A224	1
Ichtyhol	Unguentum Cordes®	16A137	1
Ichtyol - Gehe	Unguentum Cordes®	14A1115	1
Ichtyol - Gesellschaft	Unguentum Cordes®	15A108	1
Ichtyol / Alliance Heal...	Unguentum Cordes®	17A098	1
Ichtyol / Alliance Heal...	Unguentum Cordes®	17A104	1
Ichtyol / Gehe	Unguentum Cordes®	17A045	1
Ichtyol / Gehe	Unguentum Cordes®	18A156	1
Ichtyol / Noweda	Unguentum Cordes®	17A084	1
Ichtyol / Noweda	Wool alcohol ointment DAB	82721410	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichtyol / Phönix	Unguentum Cordes®	16A123	2
Ichtyol / Phönix	Unguentum Cordes®	18A049	1
Ichtyol / Phönix	Unguentum Cordes®	18A191	1
Ichtyol / Phönix	Unguentum Cordes®	19A112	1
Ichtyol / Phönix	Unguentum Cordes®	21A0058	1
Ichtyol 004	Unguentum Cordes®	12A059	1
Ichtyol Gesells./AHD	Unguentum Cordes®	17A005	1
Ichtyol Gesellschaft / ...	Unguentum Cordes®	20A0084	1
Ichtyol Gesellschaft /B...	Unguentum Cordes®	19A0153	1
Ichtyol Gesellschaft /N...	Unguentum Cordes®	20A0153	1
Ichtyol Gesellschaft /N...	Unguentum Cordes®	20A0172	1
Ichtyol- Gesellschaft C...	Unguentum Cordes®	18A111	1
Ichtyol Gesellschaft co...	Unguentum Cordes®	19A0153	1
Ichtyol Gesellschaft co...	Unguentum Cordes®	20A0084	1
Ichtyol Gesellschaft co...	Unguentum Cordes®	20A0153	1
Ichtyol Gesellschaft Co...	Unguentum Cordes®	16A085	1
Ichtyol Gesellschaft Co...	Unguentum Cordes®	16A1010	1
Ichtyol Gesellschaft Co...	Unguentum Cordes®	17A084	2
Ichtyol gesellschaft GmbH	Unguentum Cordes®	16A085	1
Ichtyol Gesellschaft/ N...	Unguentum Cordes®	18A048	1
Ichtyol Gesellschaft/Gehe	Unguentum Cordes®	20A0131	3
Ichtyol Gesellschaft/Gehe	Unguentum Cordes®	20A0211	1
Ichtyol Gesellschaft/Ot...	Unguentum Cordes®	21a0189	1
Ichtyol Gesellschaft	Unguentum Cordes®	15A027	1
Ichtyol Gesellschaft	Unguentum Cordes®	15A060	1
Ichtyol Gesellschaft	Unguentum Cordes®	16A099	1
Ichtyol Gesellschaft	Unguentum Cordes®	17A002	1
Ichtyol Gesellschaft	Unguentum Cordes®	17A007	1
Ichtyol Gesellschaft	Unguentum Cordes®	17A084	1
Ichtyol- Gesellschaft	Unguentum Cordes®	17A084	1
Ichtyol- Gesellschaft	Unguentum Cordes®	18A101	2
ichtyol gesellschaft	Unguentum Cordes®	18A156	1
Ichtyol Gesellschaft	Unguentum Cordes®	18A156	1
ICHTYOL GESELLSCHAFT	Unguentum Cordes®	19A005	1
ICHTYOL GESELLSCHAFT	Unguentum Cordes®	19A0256	1
ICHTYOL GESELLSCHAFT	Unguentum Cordes®	19A128	1
Ichtyol Gesllschaft	Unguentum Cordes®	16A048	1
Ichtyol Gesllschaft	Unguentum Cordes®	17A098	1
Ichtyol Pharma /Max Jenne	Unguentum Cordes®	20A0172	2
Ichtyol, Noweda	Unguentum Cordes®	12A147	1
Ichtyol,Noweda	Unguentum Cordes®	12A139	1
Ichtyol,Noweda	Unguentum Cordes®	13A047	1
Ichtyol/ Anzag	Unguentum Cordes®	19A0154	1
Ichtyol/ Gehe	Unguentum Cordes®	18A107	1
Ichtyol/ Gehe	Unguentum Cordes®	18A131	1
Ichtyol/ Gehe	Unguentum Cordes®	18A248	1
Ichtyol/ Gehe	Unguentum Cordes®	19A006	1
Ichtyol/ Gehe	Unguentum Cordes®	19A0183	1
Ichtyol/ Gehe	Unguentum Cordes®	19A111	1
Ichtyol/ Gehe	Unguentum Cordes®	19A0262	1
Ichtyol/ Gehe	Unguentum Cordes®	20A0034	1
Ichtyol/ Gehe	Unguentum Cordes®	20A0035	1
Ichtyol/ Krieger	Unguentum Cordes®	19A0256	1
Ichtyol/ Noweda	Unguentum Cordes®	15A141	1
Ichtyol/ Noweda	Unguentum Cordes®	17A101	1
Ichtyol/ Noweda	Unguentum Cordes®	18A070	1
Ichtyol/ Noweda	Unguentum Cordes®	19A001	1
Ichtyol/ Phönix	Unguentum Cordes®	13A135	1
Ichtyol/ Phönix	Unguentum Cordes®	16A121	2
Ichtyol/ Phönix	Unguentum Cordes®	17A056	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichtyol//Krieger	Unguentum Cordes®	19A0181	1
Ichtyol/AHD	Unguentum Cordes®	16A184	1
Ichtyol/AHD	Unguentum Cordes®	18A130	1
Ichtyol/AHD	Unguentum Cordes®	19A0149	1
Ichtyol/AHD	Unguentum Cordes®	19A0153	1
Ichtyol/AHD	Unguentum Cordes®	20A0002	1
Ichtyol/Anzag	Unguentum Cordes®	15A074	1
Ichtyol/Anzag	Unguentum Cordes®	17A004	1
Ichtyol/Gehe	Unguentum Cordes®	13A184	1
Ichtyol/Gehe	Unguentum Cordes®	15A150	2
Ichtyol/Gehe	Unguentum Cordes®	15A78	1
Ichtyol/Gehe	Unguentum Cordes®	17A087	1
Ichtyol/Gehe	Unguentum Cordes®	17A142	1
Ichtyol/Gehe	Unguentum Cordes®	18A003	1
Ichtyol/Geilenkirchen	Unguentum Cordes®	18A112	1
Ichtyol/Geilenkirchen	Unguentum Cordes®	18A223	1
Ichtyol/Geilenkirchen	Unguentum Cordes®	20A0049	1
Ichtyol/Geilenkirchen	Unguentum Cordes®	20A0172	1
Ichtyol/Kehr	Unguentum Cordes®	16A101	1
Ichtyol/Krieger	Unguentum Cordes®	18A070	1
Ichtyol/Krieger	Unguentum Cordes®	18A166	1
Ichtyol/Noweda 31.01.2017	Unguentum Cordes®	16A140	1
Ichtyol/Noweda	Unguentum Cordes®	13A042	1
Ichtyol/Noweda	Unguentum Cordes®	13A053	1
Ichtyol/Noweda	Unguentum Cordes®	15A124	1
Ichtyol/Noweda	Unguentum Cordes®	16A099	1
Ichtyol/Noweda	Unguentum Cordes®	16A119	1
Ichtyol/Noweda	Unguentum Cordes®	16A176	1
Ichtyol/Noweda	Unguentum Cordes®	17A004	1
Ichtyol/Noweda	Unguentum Cordes®	17A005	1
Ichtyol/Noweda	Unguentum Cordes®	17A007	1
Ichtyol/Noweda	Unguentum Cordes®	17A049	1
Ichtyol/Noweda	Unguentum Cordes®	18A113	1
Ichtyol/Noweda	Unguentum Cordes®	18A156	1
Ichtyol/Noweda	Unguentum Cordes®	19A0181	1
Ichtyol/Noweda	Unguentum Cordes®	20A0035	1
Ichtyol/Phoenix	Unguentum Cordes®	15A137	1
Ichtyol/Phoenix	Unguentum Cordes®	17A007	1
Ichtyol/Phoenix	Unguentum Cordes®	17A045	1
Ichtyol/Phoenix	Unguentum Cordes®	17A105	1
Ichtyol/Phoenix	Unguentum Cordes®	18A190	1
Ichtyol/Phoenix	Unguentum Cordes®	19A0181	1
Ichtyol/Phoenix	Unguentum Cordes®	20A0149	1
Ichtyol/Phönix	Unguentum Cordes®	15A029	1
Ichtyol/Phönix	Unguentum Cordes®	15A140	1
Ichtyol/Phönix	Unguentum Cordes®	16A048	1
Ichtyol/Phönix	Unguentum Cordes®	17A084	1
Ichtyol/Phönix	Unguentum Cordes®	17A105	1
Ichtyol/Phönix	Unguentum Cordes®	18A111	1
Ichtyol/Phönix	Unguentum Cordes®	18A113	1
Ichtyol/Phönix	Unguentum Cordes®	18A191	1
Ichtyol/Phönix	Unguentum Cordes®	4113Q-02532	1
Ichtyol/sana EK: EUR 13,5...	Unguentum Cordes®	18A110	1
Ichtyol/Sanacorp	Unguentum Cordes®	14A097	1
Ichtyol/Sanacorp	Unguentum Cordes®	17A007	1
Ichtyol/Sanacorp	Unguentum Cordes®	18A111	2
Ichtyol/Sanacorp	Unguentum Cordes®	18A112	1
Ichtyol/Sanacorp	Unguentum Cordes®	18A223	1
Ichtyol/Sanacorp	Unguentum Cordes®	19A001	1
Ichtyol	Unguentum Cordes®	11A038	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichtyol	Unguentum Cordes®	12A106	1
Ichtyol	Unguentum Cordes®	12A157	1
ichtyol	Unguentum Cordes®	13A029	1
Ichtyol	Unguentum Cordes®	13A067	1
ichtyol	Unguentum Cordes®	13A106	1
Ichtyol	Unguentum Cordes®	13A111	1
Ichtyol	Unguentum Cordes®	13A137	1
Ichtyol	Unguentum Cordes®	13A054	1
Ichtyol	Unguentum Cordes®	154A021	1
Ichtyol	Unguentum Cordes®	15A040	1
Ichtyol	Unguentum Cordes®	15A042	1
Ichtyol	Unguentum Cordes®	15A077	1
Ichtyol	Unguentum Cordes®	15A125	1
Ichtyol	Unguentum Cordes®	15A142	1
ichtyol	Unguentum Cordes®	15A156	1
Ichtyol	Unguentum Cordes®	15A192	1
ichtyol	Unguentum Cordes®	15a195	1
Ichtyol	Unguentum Cordes®	16A051	1
ichtyol	Unguentum Cordes®	16A058	1
ichtyol	Unguentum Cordes®	16A122	1
ichtyol	Unguentum Cordes®	16A137	1
Ichtyol	Unguentum Cordes®	16A139	1
Ichtyol	Unguentum Cordes®	16A181	1
Ichtyol	Unguentum Cordes®	16A184	1
ichtyol	Unguentum Cordes®	16A210	1
Ichtyol	Unguentum Cordes®	17A003	1
Ichtyol	Unguentum Cordes®	17A007	1
ichtyol	Unguentum Cordes®	17A069	1
ichtyol	Unguentum Cordes®	18A130	1
Ichtyol	Unguentum Cordes®	18A223	1
Ichtyol	Unguentum Cordes®	19A005	1
Ichtyol	Unguentum Cordes®	19A0153	1
Ichtyol	Unguentum Cordes®	19A0154	1
Ichtyol	Unguentum Cordes®	19a0184	1
Ichtyol	Unguentum Cordes®	19A020	1
Ichtyol	Unguentum Cordes®	19a0256	2
Ichtyol	Unguentum Cordes®	20A0045	1
Ichtyol	Unguentum Cordes®	20A0084	1
Ichtyol	Unguentum Cordes®	20A0153	1
Ichtyol	Unguentum Cordes®	20A0173	1
Ichtyol	Unguentum Cordes®	300316-250-1314	1
Ichtyolan/Noweda	Unguentum Cordes®	16A139	1
ichtyol-anzag	Unguentum Cordes®	18A111	1
Ichtyol-Ges HH/Kehr	Unguentum Cordes®	17A007	1
Ichtyol-Ges HH/Sanacorp	Unguentum Cordes®	17A142	1
ICHTYOL-Gesellsch./Sana...	Unguentum Cordes®	17A004	1
Ichtyol-Gesellschaft / G	Unguentum Cordes®	18A112	1
Ichtyol-Gesellschaft / Ph	Unguentum Cordes®	17A105	1
Ichtyol-Gesellschaft / Ph	Unguentum Cordes®	18A110	1
Ichtyol-Gesellschaft / Ph	Unguentum Cordes®	18A166	1
Ichtyol-Gesellschaft / ...	Unguentum Cordes®	17A112	2
Ichtyol-Gesellschaft / ...	Unguentum Cordes®	17A126	1
Ichtyol-Gesellschaft / ...	Unguentum Cordes®	18A191	1
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	16A085	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	17A005	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	17A045	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	18A050	2
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	18A190	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	19A003	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	16A085	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichtyolgesellschaft Cor...	Unguentum Cordes®	16A101	1
Ichtyolgesellschaft Cor...	Unguentum Cordes®	16A183	1
Ichtyolgesellschaft Cor...	Unguentum Cordes®	16A184	1
Ichtyolgesellschaft Cor...	Unguentum Cordes®	17A002	1
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	17A007	1
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	17A045	1
Ichtyolgesellschaft Cor...	Unguentum Cordes®	17A085	1
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	17A085	1
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	17A142	2
Ichtyolgesellschaft Cor...	Unguentum Cordes®	18A110	2
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	18A110	2
Ichtyolgesellschaft Cor...	Unguentum Cordes®	18A111	4
Ichtyolgesellschaft Cor...	Unguentum Cordes®	18A112	1
Ichtyolgesellschaft Cor...	Unguentum Cordes®	18A113	1
Ichtyolgesellschaft Cor...	Unguentum Cordes®	18A223	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	18A223	1
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	18A223	1
Ichtyolgesellschaft Cor...	Unguentum Cordes®	19A0153	2
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	19A0154	1
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	19A111	1
Ichtyolgesellschaft Cor...	Unguentum Cordes®	20A0049	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	20A0049	2
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	20A0084	1
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	20A0084	2
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	20A0105	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	20A0153	2
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	20A0172	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	20A0173	1
ICHTYOL-GESELLSCHAFT Co...	Unguentum Cordes®	20A0173	1
Ichtyol-Gesellschaft Co...	Unguentum Cordes®	21A0163	1
Ichtyol-Gesellschaft, C...	Unguentum Cordes®	18A113	1
Ichtyol-Gesellschaft/ P...	Unguentum Cordes®	17A112	1
Ichtyol-Gesellschaft/Ph...	Unguentum Cordes®	18A233	1
Ichtyol-Gesellschaft/Ph...	Unguentum Cordes®	12A058	1
Ichtyol-Gesellschaft/Ph...	Unguentum Cordes®	14A095	1
Ichtyol-Gesellschaft/Ph...	Unguentum Cordes®	18A193	1
Ichtyol-Gesellschaft/Sa...	Unguentum Cordes®	18A244	1
Ichtyol-Gesellschaft/Sa...	Unguentum Cordes®	20A0111	1
Ichtyol-Gesellschaft	Unguentum Cordes®	12A184	1
Ichtyol-Gesellschaft	Unguentum Cordes®	13A053	1
Ichtyol-Gesellschaft	Unguentum Cordes®	13A178	1
Ichtyol-Gesellschaft	Unguentum Cordes®	14A079	1
Ichtyol-Gesellschaft	Unguentum Cordes®	15A020	1
Ichtyol-Gesellschaft	Unguentum Cordes®	15A043	1
Ichtyol-Gesellschaft	Unguentum Cordes®	15A061	1
Ichtyol-Gesellschaft	Unguentum Cordes®	15A062	2
Ichtyol-Gesellschaft	Unguentum Cordes®	15A107	1
Ichtyol-Gesellschaft	Unguentum Cordes®	15A137	1
ichtyol-gesellschaft	Unguentum Cordes®	15A191	1
Ichtyol-Gesellschaft	Unguentum Cordes®	15A191	1
Ichtyol-Gesellschaft	Unguentum Cordes®	15A192	1
Ichtyol-Gesellschaft	Unguentum Cordes®	164A101	1
Ichtyol-Gesellschaft	Unguentum Cordes®	16A051	1
Ichtyol-Gesellschaft	Unguentum Cordes®	16A085	1
Ichtyol-Gesellschaft	Unguentum Cordes®	16A099	1
Ichtyol-Gesellschaft	Unguentum Cordes®	16A153	1
Ichtyol-Gesellschaft	Unguentum Cordes®	16A183	1
Ichtyol-Gesellschaft	Unguentum Cordes®	17A002	1
Ichtyol-Gesellschaft	Unguentum Cordes®	17A005	2
Ichtyol-Gesellschaft	Unguentum Cordes®	17A045	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichtyol-Gesellschaft	Unguentum Cordes®	17A049	1
Ichtyol-Gesellschaft	Unguentum Cordes®	17A055	1
Ichtyol-Gesellschaft	Unguentum Cordes®	17A101	1
Ichtyol-Gesellschaft	Unguentum Cordes®	17A126	1
Ichtyol-Gesellschaft	Unguentum Cordes®	18A049	1
Ichtyol-Gesellschaft	Unguentum Cordes®	18A131	1
Ichtyol-Gesellschaft	Unguentum Cordes®	18A132	1
Ichtyol-Gesellschaft	Unguentum Cordes®	18A215	1
Ichtyol-Gesellschaft	Unguentum Cordes®	19A001	1
Ichtyol-Gesellschaft	Unguentum Cordes®	19A020	1
Ichtyol-Gesellschaft	Unguentum Cordes®	20A0173	2
Ichtyol-Gesellschaft	Unguentum Cordes®	21A0102	1
Ichtyol-Gesellschaft	Unguentum Cordes®	21A0202	1
Ichtyol-Gesllschaft/Now...	Unguentum Cordes®	20A0049	1
Ichtyol-Gruppe	Unguentum Cordes®	15A155	1
Icthyol	Unguentum Cordes®	20A0105	1
Infectopharm / Noweda	Hydrophilic ointment DAB	17040201	1
Infectopharm / Noweda	Hydrophobic base gel DAC	17320409	1
Infectopharm/ Sanacorp	Wool alcohol ointment DAB	50334610	1
InfectoPharm	Unguentum Cordes®	16A085	1
Jenne / Beiersdorf	Wool alcohol ointment DAB	94037210	1
Jenne/Beiersdorf	Wool alcohol ointment DAB	2711410	1
Jenne	Unguentum Cordes®	13A049	1
Jenne	Unguentum Cordes®	16A183	1
JENNE	Hydrophobic base gel DAC	18140607	1
Jenne	Unguentum Cordes®	20A0211	1
jenne	Wool alcohol ointment DAB	21526010	1
Jenne	Wool alcohol ointment DAB	2851610	1
JENNE	Wool alcohol ointment DAB	82721410	1
Jenne	Wool alcohol ointment DAB	93456310	2
Jenne	Wool alcohol ointment DAB	94947710	1
Kehr / Ichthyol-Geselsc...	Unguentum Cordes®	17A126	1
Kehr,11.3.19	Unguentum Cordes®	18A105	1
Kehr/Beiersdorf	Wool alcohol ointment DAB	71114510	1
Kehr/Beiersdorf	Wool alcohol ointment DAB	93456310	1
Kehr/Ichthyol	Unguentum Cordes®	17A005	1
Kehr/Ichthyol	Unguentum Cordes®	17A087	1
Kehr/Ichthyol	Unguentum Cordes®	17A142	1
Kehr/ICHTHYOL-GESELLSCH...	Unguentum Cordes®	17A067	1
Kehr/ICHTHYOL-GESELLSCH...	Unguentum Cordes®	17A084	2
Kehr/ICHTHYOL-GESELLSCH...	Unguentum Cordes®	17A085	3
Kehr/ICHTHYOL-GESELLSCH...	Unguentum Cordes®	18A105	1
Kehr	Paraffin, white	17038202	1
Kehr	Eye paraffin	17052010	2
Kehr	Hydrophobic base gel DAC	17196704	1
Kehr	Unguentum Cordes®	17A002	1
Kehr	Unguentum Cordes®	17A003	1
Kehr	Unguentum Cordes®	17A004	1
Kehr	Unguentum Cordes®	17A007	1
Kehr	Wool alcohol ointment DAB	18002496	1
Kehr	Wool alcohol ointment DAB	307775	1
Kehr	Wool alcohol ointment DAB	311387	1
Klenk	Eye paraffin	15441514	2
Klenk	Hydrophilic ointment DAB	1783002	1
Klosterring	Wool alcohol ointment DAB	18250801	1
Kögl	Paraffin, white	16402170817	1
Kögl	Paraffin, white	16402171117	1
Kögl	Paraffin, white	166205172017	1
Kögl	Paraffin, white	1700060	1
Kögl	Paraffin, white	1700443	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Kögl	Paraffin, white	1700760	1
Kögl	Paraffin, white	1701037	1
Kögl	Paraffin, white	1701633	1
Kögl	Paraffin, white	1800323	1
Kögl	Paraffin, white	1802638	2
Kögl	Paraffin, white	218806172717	1
Kögl	Paraffin, white	305109163916	1
Kögl	Paraffin, white	396911160317	2
Kögl	Paraffin, white	400111165016	1
Kögl	Paraffin, white	63403171917	1
Krieger am 20.07.2018	Eye paraffin	17052010	1
Krieger/ Ichthyol	Unguentum Cordes®	16A153	1
Krieger/ Ichthyol	Unguentum Cordes®	18A050	1
Krieger/ Ichthyol	Unguentum Cordes®	18A216	1
Krieger	Hydrophilic ointment DAB	12311401	1
Krieger	Hydrophilic ointment DAB	16282801	1
Krieger	Unguentum Cordes®	18A004	1
Krieger	Unguentum Cordes®	18A111	1
krieger	Hydrophilic ointment DAB	19190701	1
krieger	Unguentum Cordes®	19A001	1
krieger	Unguentum Cordes®	19A0181	1
Krieger	Unguentum Cordes®	21A0114	1
L10/Cordes	Unguentum Cordes®	18A112	1
L10	Unguentum Cordes®	17A087	2
L10	Wool alcohol ointment DAB	70314010	1
L12/Beiersdorf	Wool alcohol ointment DAB	62041710	1
L12/Beiersdorf	Wool alcohol ointment DAB	62932210	2
L12/Beiersdorf	Wool alcohol ointment DAB	71124510	1
L12/Ichthyol- Gesellsch...	Unguentum Cordes®	17A067	1
L12/Ichthyol	Unguentum Cordes®	16A085	2
L12	Eye ointment, emulsifying DAC	14A091017	1
L12	Hydrophobic base gel DAC	16151105	1
L12	Hydrophilic ointment DAB	16167001	1
L12	Paraffin, white	16227406	1
L12	Paraffin, white	16272003	3
L12	Unguentum Cordes®	16A101	1
L12	Paraffin, yellow	17052401	5
L12	Wool alcohol ointment DAB	17105401	1
L12	Paraffin, yellow	17303501	1
L12	Hydrophobic base gel DAC	17320409	1
L12	Unguentum Cordes®	17A002	1
L12	Unguentum Cordes®	17A004	3
L12	Unguentum Cordes®	17A045	2
L12	Wool alcohol ointment DAB	181232501	1
L12	Wool alcohol ointment DAB	64713510	2
L12	Wool alcohol ointment DAB	72915810	1
Labor Defektur Nasensal...	Paraffin, white	3717A-07061	1
Labor Defektur Nasensal...	Paraffin, white	5217M-07002	1
Labor	Paraffin, white	1917M-07061Nasensal	1
Labor	Paraffin, white	3117M-07002	1
Lamotta/Anzag	Hydrophilic ointment DAB	6001368014	1
Lamotte / AHC	Hydrophilic ointment DAB	8005713006	6
Lamotte / Anzag	Hydrophilic ointment DAB	1017Q-02539	1
Lamotte / Anzag	Wool alcohol ointment DAB	18005546	2
Lamotte / Noweda	Hydrophilic ointment DAB	8004399001	4
Lamotte 001	Paraffin, white	5691100	1
Lamotte Oils/AHD	Paraffin, liquid	1000010844	1
Lamotte, Noweda 26.08.19	Hydrophilic ointment DAB	8003325012	2
Lamotte/ Anzag	Paraffin, white	5538300	1
Lamotte//AHD	Hydrophilic ointment DAB	5860500	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/AHC	Hydrophilic ointment DAB	6001368014	1
Lamotte/AHD	Hydrophilic ointment DAB	8002320009	1
Lamotte/Alliance	Hydrophilic ointment DAB	5517900	1
Lamotte/Alliance	Hydrophilic ointment DAB	5651600	1
Lamotte/Alliance	Hydrophilic ointment DAB	6001368014	1
Lamotte/Anzag	Hydrophilic ointment DAB	1616Q-02539	1
Lamotte/Anzag	Hydrophilic ointment DAB	2019U-02539	1
Lamotte/Anzag	Hydrophilic ointment DAB	3018E-02539	1
Lamotte/Anzag	Hydrophilic ointment DAB	5112A-02539	1
Lamotte/ANZAG	Hydrophilic ointment DAB	5860400	1
Lamotte/Fiebig	Paraffin, liquid	1000010844	1
Lamotte/Gehe NL	Paraffin, liquid	1000010844	1
Lamotte/Jenne	Paraffin, liquid	1000010844	1
Lamotte/Kehr	Paraffin, white		1
Lamotte/Noweda	Paraffin, liquid	1000014411	1
Lamotte/Phoenix	Paraffin, liquid	1000010844	1
Lamotte/Phoenix	Paraffin, liquid	8003083001	1
Lamotte	Paraffin, liquid	1000010844	1
Lamotte	Paraffin, liquid	1000014411	1
Lamotte	Hydrophilic ointment DAB	14123301	1
Lamotte	Hydrophilic ointment DAB	518400	1
Lamotte	Paraffin, white	5215200	1
Lamotte	Hydrophilic ointment DAB	5321400	1
Lamotte	Paraffin, white	5322600	1
lamotte	Hydrophilic ointment DAB	5448000	1
lamotte	Hydrophilic ointment DAB	5517900	1
Lamotte	Hydrophilic ointment DAB	5651600	2
Lamotte	Paraffin, white	6000083007	1
Lamotte	Paraffin, white	6002062001	2
lamotte	Hydrophilic ointment DAB	8002320009	4
Lamotte	Paraffin, white	8002875007	1
Lamotte	Hydrophilic ointment DAB	8003325012	2
Lamotte	Hydrophilic ointment DAB	8005713007	1
Markt Apotheke	Paraffin, white	4618I-07061	1
Marktapotheke	Paraffin, white	260916	1
Marktapotheke	Paraffin, white	3716I-07061	2
Marktapotheke	Paraffin, white	3717A-07002	1
Marktapotheke	Paraffin, white	817E-07002	1
medphano AM GmbH	Wool alcohol ointment SR wit…	6550115	1
medphano Arzneimitte /…	Wool alcohol ointment SR/DAC	20000019	1
Medphano / Jenne	Wool alcohol ointment SR wit…	6550118	1
medphano AN GmbH	Wool alcohol ointment SR/DAC	20000019	1
Medphano Arzeimittel Gm…	Wool alcohol ointment SR wit…	6550118	1
Medphano Arzneimittel /…	Wool alcohol ointment SR wit…	6550115	1
medphano Arzneimittel G…	Wool alcohol ointment SR wit…	6550115	1
medphano Arzneimittel G…	Wool alcohol ointment SR wit…	6550118	1
medphano Arzneimittel G…	Wool alcohol ointment SR wit…	6550118	1
medphano Arzneimittel G…	Wool alcohol ointment SR/DAC	20000019	1
Medphano Arzneimittel G…	Wool alcohol ointment SR wit…	6550115	1
medphano Arzneimittel G…	Wool alcohol ointment SR wit…	6550118	8
medphano Arzneimittel/ …	Wool alcohol ointment SR wit…	6550118	1
medphano Arzneimittel/S…	Wool alcohol ointment SR wit…	6550115	1
medphano Arzneimittel/S…	Wool alcohol ointment SR/DAC	6550118	1
medphano Arzneimittel	Wool alcohol ointment SR/DAC	6550115	1
medphano Arzneimittel	Wool alcohol ointment SR wit…	6550118	1
Medphano/ Noweda	Wool alcohol ointment SR wit…	6550118	1
medphano/AHD	Wool alcohol ointment SR/DAC	6550115	1
Medphano/Anzag	Wool alcohol ointment SR wit…	6550115	1
medphano/Anzag	Wool alcohol ointment SR wit…	6550118	1
Medphano/Anzag	Wool alcohol ointment SR wit…	6550118	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
medphano/Fiebig	Wool alcohol ointment SR wit…	6550118	4
medphano/Gehe	Wool alcohol ointment SR wit…	6550115	1
medphano/Noweda	Wool alcohol ointment SR/DAC	20000019	2
medphano/Phoenix	Wool alcohol ointment SR wit…	6550115	1
medphano/phönix	Wool alcohol ointment SR wit…	6550118	1
medphano/Phönix	Wool alcohol ointment SR wit…	6550118	1
Medphano/Phönix	Wool alcohol ointment SR wit…	6550118	1
medphano/Sanacorp	Wool alcohol ointment SR/DAC	6550118	1
Medphano/Sanacorp	Wool alcohol ointment SR wit…	6550118	1
Medphano/VdL	Wool alcohol ointment SR wit…	6550115	1
medphano	Wool alcohol ointment SR wit…	6550115	1
medphano	Wool alcohol ointment SR wit…	6550118	1
Medphano	Wool alcohol ointment SR wit…	6550118	1
medphanoArzneimittel Gm…	Wool alcohol ointment SR wit…	20000019	1
medpharno/Sanacorp	Wool alcohol ointment DAB	6550115	1
Midas	Paraffin, white	17038204	1
Midas	Wool alcohol ointment DAB	17141401	2
Midas	Paraffin, white	17204201	1
Midas	Paraffin, white	17204209	2
Midas	Wool alcohol ointment DAB	17206001	1
Midas	Wool alcohol ointment DAB	17300902	1
Midas	Wool alcohol ointment DAB	17301011	1
Midas	Paraffin, white	17350004	1
Midas	Paraffin, white	18003484	1
Midas	Paraffin, white	18174301	1
Midas	Paraffin, white	18174304	1
Midas	Wool alcohol ointment DAB	71114510	1
Nachprüfung	Unguentum Cordes®	12a124	1
Nachprüfung	Paraffin, yellow	1607E02551	1
Nasensalbe Dr.Quade	Paraffin, white	1919A-02549	1
Nasensalbe Dr.Quade	Paraffin, white	319I-07061	1
Nasensalbe mit Lavendel…	Paraffin, white	117A-07002	1
Noweda / Beiersdorf AG	Wool alcohol ointment DAB	34424610	1
Noweda / Beiersdorf AG	Wool alcohol ointment DAB	41930610	1
Noweda / Beiersdorf AG	Wool alcohol ointment DAB	45054410	1
Noweda / Beiersdorf AG	Wool alcohol ointment DAB	50815310	1
Noweda / Beiersdorf	Wool alcohol ointment DAB	82721410	1
Noweda / Beiersdorf	Wool alcohol ointment DAB	84232410	1
Noweda / Ichthyol Gesel…	Unguentum Cordes®	15A060	1
Noweda / Ichthyol	Unguentum Cordes®	16A101	1
Noweda / Ichthyol	Unguentum Cordes®	16A102	1
Noweda / Ichthyol-Gesel…	Unguentum Cordes®	17A004	1
Noweda / Ichthyol-Gesel…	Unguentum Cordes®	17A007	1
Noweda 06.04.2016	Hydrophilic ointment DAB	15221601	1
noweda ichthyol 07.02.18	Unguentum Cordes®	17A005	1
Noweda Sanova	Unguentum Cordes®	18A223	1
Noweda Taucha	Unguentum Cordes®	19A0149	2
Noweda/ Bombatus	Paraffin, white	18003484	1
Noweda/ Ichthyol-Gesell…	Unguentum Cordes®	18A252	1
Noweda/ Ichtyol Gesells…	Unguentum Cordes®	18A051	1
Noweda/ Ichtyol Gesells…	Unguentum Cordes®	18A216	1
Noweda/ Ichtyol	Unguentum Cordes®	12A124	1
Noweda/ PKH Halle	Eye ointment, emulsifying DAC	16A061212	1
noweda/anzag	Emulsifying hydrophobic base…	19101801	1
Noweda/Beiersdorf	Wool alcohol ointment DAB	2851610	1
Noweda/Beiersdorf	Wool alcohol ointment DAB	50324610	1
Noweda/Beiersdorf	Wool alcohol ointment DAB	60539210	1
Noweda/Beiersdorf	Wool alcohol ointment DAB	71214810	1
Noweda/Beiersdorf	Wool alcohol ointment DAB	74747510	1
Noweda/Beiersdorf	Wool alcohol ointment DAB	74757510	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda/beiersdorf	Wool alcohol ointment DAB	829110	1
Noweda/beiersdorf	Wool alcohol ointment DAB	84132310	1
Noweda/Cordes	Unguentum Cordes®	18A252	1
Noweda/Eurho	Wool alcohol ointment DAB	19000471001	1
Noweda/Eurho	Paraffin, white	2003054-01	2
Noweda/Ichthyol -Gesell...	Unguentum Cordes®	17A085	1
Noweda/Ichthyol Gesells...	Unguentum Cordes®	20A0173	2
Noweda/Ichthyol Gesells...	Unguentum Cordes®	21A0201	1
Noweda/Ichthyol	Unguentum Cordes®	13A106	1
Noweda/Ichthyol	Unguentum Cordes®	14A113	1
Noweda/Ichthyol	Unguentum Cordes®	14A173	1
Noweda/Ichthyol	Unguentum Cordes®	15A020	2
Noweda/Ichthyol	Unguentum Cordes®	15A123	1
Noweda/Ichthyol	Unguentum Cordes®	15A125	3
Noweda/Ichthyol	Unguentum Cordes®	15A191	1
Noweda/Ichthyol	Unguentum Cordes®	16A099	1
Noweda/Ichthyol	Unguentum Cordes®	16A102	1
Noweda/Ichthyol	Unguentum Cordes®	17A003	1
Noweda/Ichthyol	Unguentum Cordes®	17A127	1
noweda/Ichthyol	Unguentum Cordes®	18A067	1
noweda/Ichthyol	Unguentum Cordes®	18A084	1
noweda/Ichthyol	Unguentum Cordes®	18A105	1
noweda/Ichthyol	Unguentum Cordes®	18A131	1
Noweda/Ichthyol	Unguentum Cordes®	18A156	2
Noweda/Ichthyol	Unguentum Cordes®	18A190	1
noweda/Ichthyol	Unguentum Cordes®	18A192	1
noweda/Ichthyol	Unguentum Cordes®	18A243	1
noweda/Ichthyol	Unguentum Cordes®	18A248	1
noweda/Ichthyol	Unguentum Cordes®	18A252	1
noweda/Ichthyol	Unguentum Cordes®	19A020	1
noweda/Ichthyol	Unguentum Cordes®	19A021	1
Noweda/Ichthyol	Unguentum Cordes®	19A0257	2
noweda/Ichthyol	Unguentum Cordes®	19A026	2
Noweda/Ichthyol	Unguentum Cordes®	20A0051	1
Noweda/Ichthyol-Gesells...	Unguentum Cordes®	15A123	1
Noweda/Ichthyol-Gesells...	Unguentum Cordes®	20A0034	1
Noweda/Ichthyol-Geselsc...	Unguentum Cordes®	18A248	1
Noweda/Ichthyol-Geselsc...	Unguentum Cordes®	19A0182	1
Noweda/Ichthyol-Geselsc...	Unguentum Cordes®	19A0257	1
noweda/Ichtyol	Unguentum Cordes®	13A043	1
Noweda/Ichtyol	Unguentum Cordes®	16A047	1
Noweda/Ichtyol	Unguentum Cordes®	16A124	1
Noweda/Ichtyol	Unguentum Cordes®	16A184	1
Noweda/Ichtyol	Unguentum Cordes®	17A127	1
Noweda/Lamotte EK 5,40 ...	Paraffin, liquid	10000014411	1
Noweda	Paraffin, liquid	1000010844	1
Noweda	Hydrophilic ointment DAB	11133501	1
Noweda	Wool alcohol ointment DAB	11333210	1
Noweda	Wool alcohol ointment DAB	1141203	1
Noweda	Unguentum Cordes®	11a199	1
Noweda	Wool alcohol ointment SR wit...	12078201	1
Noweda	Wool alcohol ointment SR wit...	12078301	1
Noweda	Wool alcohol ointment DAB	12151901	1
Noweda	Emulsifying hydrophobic base...	12160201	1
Noweda	Hydrophilic ointment DAB	12205201	1
Noweda	Paraffin, white	12209203	1
Noweda	Wool alcohol ointment SR wit...	12244302	1
Noweda	Hydrophilic ointment DAB	12311801	1
Noweda	Paraffin, white	12337707	1
Noweda	Unguentum Cordes®	12A123	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Unguentum Cordes®	12A183	2
Noweda	Unguentum Cordes®	12A184	1
Noweda	Paraffin, white	13268421	1
Noweda	Paraffin, white	13337706	1
Noweda	Emulsifying hydrophobic base...	13361004	1
Noweda	Paraffin, white	13380721	1
Noweda	Unguentum Cordes®	13A091	1
Noweda	Eye ointment, emulsifying DAC	14C161019	1
Noweda	Hydrophobic base gel DAC	15055705	1
Noweda	Hydrophobic base gel DAC	15149604	1
Noweda	Hydrophobic base gel DAC	15240805	2
Noweda	Paraffin, yellow	15330402	1
Noweda	Hydrophobic base gel DAC	15331102	1
Noweda	Paraffin, white	15339806	1
Noweda	Wool alcohol ointment DAB	15361801	1
Noweda	Wool alcohol ointment DAB	15362002	1
Noweda	Eye paraffin	15441510	2
Noweda	Unguentum Cordes®	15A029	1
Noweda	Eye ointment, emulsifying DAC	15A051119	1
Noweda	Unguentum Cordes®	15A060	1
Noweda	Unguentum Cordes®	15A062	1
Noweda	Unguentum Cordes®	15A123	1
Noweda	Unguentum Cordes®	15A191	1
Noweda	Unguentum Cordes®	15A192	1
Noweda	Paraffin, yellow	16032502	1
Noweda	Paraffin, white	16138004	1
Noweda	Paraffin, white	16181901	1
Noweda	Wool alcohol ointment DAB	16198502	1
Noweda	Eye paraffin	16271807	1
Noweda	Paraffin, white	16272018	1
Noweda	Paraffin, white	16326702	1
Noweda	Unguentum Cordes®	16A022	1
Noweda	Unguentum Cordes®	16A023	1
Noweda	Unguentum Cordes®	16A047	1
Noweda	Unguentum Cordes®	16A085	1
Noweda	Unguentum Cordes®	16A101	1
Noweda	Unguentum Cordes®	16A144	1
Noweda	Unguentum Cordes®	16A153	1
Noweda	Wool alcohol ointment DAB	17001877	3
Noweda	Emulsifying hydrophobic base...	17032303	1
Noweda	Paraffin, white	17038213	1
Noweda	Paraffin, white	17052003	2
Noweda	Eye paraffin	17052012	3
Noweda	Paraffin, yellow	17052401	1
Noweda	Wool alcohol ointment DAB	17104902	1
Noweda	Paraffin, white	17106005	1
Noweda	Wool alcohol ointment DAB	1710910	1
Noweda	Emulsifying hydrophobic base...	17113703	1
Noweda	Paraffin, white	1712008-01	1
Noweda	Wool alcohol ointment DAB	17141401	1
Noweda	Paraffin, white	17204207	1
Noweda	Hydrophilic ointment DAB	17290702	2
Noweda	Hydrophilic ointment DAB	17290703	1
Noweda	Hydrophilic ointment DAB	17330303	1
Noweda	Hydrophilic ointment DAB	17330402	3
Noweda	Eye paraffin	17342006	1
Noweda	Eye paraffin	17342016	2
Noweda	Paraffin, white	17347802	2
Noweda	Paraffin, white	17350005	1
Noweda	Unguentum Cordes®	17A004	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Unguentum Cordes®	17A005	1
Noweda	Unguentum Cordes®	17A007	2
Noweda	Unguentum Cordes®	17A018	1
Noweda	Unguentum Cordes®	17A045	1
Noweda	Unguentum Cordes®	17A067	3
Noweda	Unguentum Cordes®	17A084	1
Noweda	Unguentum Cordes®	17A085	2
Noweda	Unguentum Cordes®	17A098	1
Noweda	Unguentum Cordes®	17A101	1
Noweda	Unguentum Cordes®	17A104	2
Noweda	Unguentum Cordes®	17A126	1
Noweda	Paraffin, yellow	18000669	1
Noweda	Wool alcohol ointment DAB	18002498	1
Noweda	Hydrophobic base gel DAC	18003235	5
Noweda	Hydrophilic ointment DAB	18004580	1
Noweda	Paraffin, white	18005033	1
Noweda	Paraffin, white	18006404	1
Noweda	Hydrophobic base gel DAC	18075803	1
Noweda	Paraffin, white	1811025-01	2
Noweda	Paraffin, white	18174303	1
Noweda	Paraffin, white	18174314	1
Noweda	Eye paraffin	181797002	1
Noweda	Paraffin, white	18179704	1
Noweda	Hydrophobic base gel DAC	18228301	2
Noweda	Hydrophobic base gel DAC	18240307	3
Noweda	Wool alcohol ointment DAB	18251001	2
Noweda	Wool alcohol ointment DAB	1841110	1
Noweda	Unguentum Cordes®	18A006	1
Noweda	Unguentum Cordes®	18A070	1
Noweda	Unguentum Cordes®	18A073	1
Noweda	Unguentum Cordes®	18A084	1
Noweda	Unguentum Cordes®	18A087	1
Noweda	Unguentum Cordes®	18A110	1
Noweda	Unguentum Cordes®	18A112	2
Noweda	Unguentum Cordes®	18A113	1
Noweda	Unguentum Cordes®	18A131	1
Noweda	Unguentum Cordes®	18A156	1
Noweda	Unguentum Cordes®	18A166	1
Noweda	Unguentum Cordes®	18A215	1
Noweda	Unguentum Cordes®	18A256	1
Noweda	Unguentum Cordes®	18A258	2
Noweda	Wool alcohol ointment DAB	18B09-T12-058739	2
Noweda	Hydrophilic ointment DAB	18F27-T05-057539	1
Noweda	Hydrophilic ointment DAB	19000412001	1
Noweda	Wool alcohol ointment DAB	19000468001	1
Noweda	Wool alcohol ointment DAB	19000469001	1
Noweda	Wool alcohol ointment DAB	19000471001	1
Noweda	Wool alcohol ointment DAB	19000472002	1
Noweda	Hydrophobic base gel DAC	19003315	2
Noweda	Wool alcohol ointment DAB	19007102	2
Noweda	Paraffin, liquid	19010307	1
Noweda	Hydrophilic ointment DAB	19025402	2
Noweda	Hydrophilic ointment DAB	19025801	1
Noweda	Paraffin, liquid	1904026	1
Noweda	Paraffin, white	1904028-01	1
Noweda	Paraffin, liquid	1909010-01	1
Noweda	Emulsifying hydrophobic base...	19101801	1
Noweda	Paraffin, white	19135408	1
Noweda	Paraffin, yellow	19165701	2
Noweda	Wool alcohol ointment DAB	19182301	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Hydrophilic ointment DAB	19190601	1
Noweda	Eye paraffin	192008003	1
Noweda	Paraffin, white	192540001	2
Noweda	Paraffin, liquid	192559004	1
Noweda	Paraffin, liquid	192559012	1
Noweda	Paraffin, white	19260102	1
Noweda	Paraffin, liquid	19271401	2
Noweda	Unguentum Cordes®	19A004	1
Noweda	Unguentum Cordes®	19A0182	2
Noweda	Unguentum Cordes®	19A020	1
Noweda	Unguentum Cordes®	19A0204	1
noweda	Unguentum Cordes®	19A0256	1
Noweda	Unguentum Cordes®	19A0256	1
Noweda	Unguentum Cordes®	19A0262	2
Noweda	Unguentum Cordes®	19Ao181	1
Noweda	Paraffin, yellow	20000003003	1
Noweda	Hydrophobic base gel DAC	20000051	1
Noweda	Paraffin, white	20000510009	1
Noweda	Paraffin, white	20000510013	1
Noweda	Paraffin, white	2000051014	1
Noweda	Eye paraffin	20000627002	1
Noweda	Hydrophobic base gel DAC	20001559003	1
Noweda	Paraffin, yellow	20001760002	1
Noweda	Hydrophilic ointment DAB	20002047001	2
Noweda	Hydrophilic ointment DAB	20002047002	1
Noweda	Paraffin, liquid	20002999003	1
Noweda	Paraffin, liquid	20004108001	1
Noweda	Unguentum Cordes®	20A0034	1
Noweda	Unguentum Cordes®	20A0045	1
Noweda	Unguentum Cordes®	20A0049	1
Noweda	Unguentum Cordes®	20A0060	1
Noweda	Unguentum Cordes®	20A0094	1
Noweda	Unguentum Cordes®	20A0095	1
Noweda	Unguentum Cordes®	20A0097	1
Noweda	Unguentum Cordes®	20A0111	1
Noweda	Unguentum Cordes®	20A0131	1
Noweda	Unguentum Cordes®	20A0152	1
Noweda	Hydrophilic ointment DAB	210001473002	1
Noweda	Hydrophilic ointment DAB	21000365001	1
Noweda	Paraffin, yellow	21000380002	1
Noweda	Wool alcohol ointment DAB	21000941001	1
Noweda	Eye paraffin	21001982001	3
Noweda	Paraffin, white	21003553	1
Noweda	Wool alcohol ointment DAB	21003591003	1
Noweda	Paraffin, white	2101013-02	1
Noweda	Unguentum Cordes®	21A0202	1
Noweda	Wool alcohol ointment DAB	22532710	1
Noweda	Wool alcohol ointment DAB	23223410	1
Noweda	Wool alcohol ointment DAB	24635410	1
Noweda	Paraffin, white	255510	1
Noweda	Paraffin, white	263762	1
Noweda	Paraffin, white	270163	3
Noweda	Wool alcohol ointment DAB	270642	2
Noweda	Paraffin, white	271261	1
Noweda	Wool alcohol ointment DAB	287013	1
Noweda	Paraffin, white	307661	1
Noweda	Paraffin, white	311259	2
Noweda	Wool alcohol ointment DAB	34414610	1
Noweda	Wool alcohol ointment DAB	34554710	1
Noweda	Wool alcohol ointment DAB	50845210	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Wool alcohol ointment DAB	62031710	1
Noweda	Wool alcohol ointment DAB	74737410	1
Noweda	Wool alcohol ointment DAB	82541010	1
Noweda	Wool alcohol ointment DAB	84122310	1
Noweda	Wool alcohol ointment DAB	84132310	1
Noweda	Wool alcohol ointment DAB	93456310	1
Noweda	Wool alcohol ointment DAB	94037210	2
Noweda-Ichthyol	Unguentum Cordes®	17A054	1
Occasio/ Ichthyol	Unguentum Cordes®	18A105	1
OQEMA	Paraffin, white	11907	8
P.W. Beyvers GmbH/Phönix	Wool alcohol ointment DAB	15225501	3
Pala	Eye paraffin	15441511	1
Pala	Eye paraffin	18179717	1
Ph/Beiersdorf	Wool alcohol ointment DAB	94957610	1
Phagron	Paraffin, white		1
Pharmachem GmbH & Co KG	Paraffin, yellow	18191503	1
Pharmachem GmbH/Pharmac...	Wool alcohol ointment SR/DAC	220517	1
Pharmachem GmbH	Paraffin, white	1038202	1
Pharmachem/ Phönix	Wool alcohol ointment SR/DAC	220517	1
Pharmachem/Phönix	Wool alcohol ointment DAB	90812	1
Pharmachem	Paraffin, yellow	150303-01	1
Pharmachem	Wool alcohol ointment DAB	18005546	1
Pharmachem	Wool alcohol ointment SR/DAC	220517	1
Pharmachem	Wool alcohol ointment SR wit...	250116	2
Pharmchem	Hydrophobic base gel DAC	18140606	1
phoenix Ichthyol	Unguentum Cordes®	15A106	1
phoenix / ichthyol	Unguentum Cordes®	15A108	1
Phoenix 02.05.2014	Emulsifying hydrophobic base...	282094	1
PHOENIX 03.03.2014	Eye ointment, emulsifying DAC	16B111113	1
Phoenix 06.03.2017 13,14EUR	Unguentum Cordes®	16A102	1
Phoenix 07.11.2017	Unguentum Cordes®	17A003	1
Phoenix 18.03.2014	Paraffin, white	12337709	1
Phoenix 18.09.2017	Hydrophilic ointment DAB	16K09-T02-038560	1
Phoenix 24.01.2019	Paraffin, white	17L22-T05-056478	3
Phoenix 25.4.2014	Paraffin, white	13185514	1
Phoenix 26.11.12	Unguentum Cordes®	12A185	1
Phoenix 27.11.14 EK 6,08	Wool alcohol ointment SR wit...	288688	1
Phoenix 29.05.2018 13,...	Unguentum Cordes®	17A045	1
Phoenix am 10.03.2014	Paraffin, white	13338703	1
Phoenix am 22.04.2014	Paraffin, white	270981	1
Phoenix Goettin	Eye paraffin	14124704	1
Phoenix/ Bombatus-Werke...	Hydrophobic base gel DAC	302145	1
Phoenix/ Caesar & Loret...	Eye paraffin	18179717	3
Phoenix/Beiersdorf	Wool alcohol ointment DAB	74017010	1
Phoenix/Cealo	Eye paraffin	15441504	1
Phoenix/Cealo	Hydrophobic base gel DAC	17196704	1
Phoenix/Cealo	Unguentum Cordes®	17A007	1
Phoenix/Ichthyol	Unguentum Cordes®	13A055	1
Phoenix/Ichthyol	Unguentum Cordes®	13A140	1
Phoenix/Ichthyol	Unguentum Cordes®	17A055	1
Phoenix/Ichthyol	Unguentum Cordes®	17A084	2
Phoenix/Ichthyol	Unguentum Cordes®	18A223	1
Phoenix/Ichthyol-Gesell...	Unguentum Cordes®	17A055	1
Phoenix/Ichthyol-Gesell...	Unguentum Cordes®	18A130	2
Phoenix/Ichthyol-Gesell...	Unguentum Cordes®	20A0002	1
Phoenix	Paraffin, white		1
Phoenix	Unguentum Cordes®	12A056	1
Phoenix	Unguentum Cordes®	12A087	1
Phoenix	Paraffin, white	13084906	1
Phoenix	Paraffin, white	13268423	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Eye paraffin	13338713	2
Phoenix	Emulsifying hydrophobic base...	14087502	1
Phoenix	Wool alcohol ointment DAB	14153101	1
Phoenix	Paraffin, white	15349706	1
Phoenix	Unguentum Cordes®	15A027	1
Phoenix	Unguentum Cordes®	15A149	1
Phoenix	Unguentum Cordes®	15ao93	1
Phoenix	Paraffin, white	16029210	1
Phoenix	Paraffin, white	16272010	1
Phoenix	Paraffin, white	16326706	1
Phoenix	Unguentum Cordes®	16A045	1
Phoenix	Unguentum Cordes®	16A046	1
Phoenix	Unguentum Cordes®	16A102	1
Phoenix	Unguentum Cordes®	16A121	1
Phoenix	Unguentum Cordes®	16A153	1
Phoenix	Wool alcohol ointment DAB	16H03-T01-035269	1
Phoenix	Hydrophobic base gel DAC	17001132	3
Phoenix	Wool alcohol ointment DAB	17001876	1
Phoenix	Hydrophobic base gel DAC	17043605	1
Phoenix	Hydrophilic ointment DAB	17083103	1
Phoenix	Wool alcohol ointment DAB	17105401	1
Phoenix	Paraffin, white	17106001	1
Phoenix	Wool alcohol ointment DAB	17149002	1
Phoenix	Hydrophobic base gel DAC	17196703	1
Phoenix	Hydrophobic base gel DAC	17196705	1
Phoenix	Hydrophobic base gel DAC	17320409	1
Phoenix	Eye paraffin	17342008	3
Phoenix	Unguentum Cordes®	17A005	1
Phoenix	Unguentum Cordes®	17A045	1
Phoenix	Unguentum Cordes®	17A084	1
Phoenix	Unguentum Cordes®	17A085	2
Phoenix	Unguentum Cordes®	17A104	1
Phoenix	Unguentum Cordes®	17A112	1
Phoenix	Unguentum Cordes®	17A113	1
Phoenix	Unguentum Cordes®	17A218	1
Phoenix	Hydrophilic ointment DAB	18001504	1
Phoenix	Wool alcohol ointment DAB	18002497	1
Phoenix	Paraffin, white	18003484	1
Phoenix	Hydrophilic ointment DAB	18004573	1
Phoenix	Hydrophilic ointment DAB	18004578	1
PHOENIX	Hydrophobic base gel DAC	18005370	1
Phoenix	Wool alcohol ointment DAB	18132501	1
Phoenix	Paraffin, white	18174303	1
Phoenix	Paraffin, white	18174312	1
Phoenix	Eye paraffin	18179703	1
Phoenix	Eye paraffin	18179716	2
Phoenix	Eye paraffin	18179717	1
Phoenix	Hydrophobic base gel DAC	18240307	1
Phoenix	Unguentum Cordes®	18A111	1
Phoenix	Unguentum Cordes®	18A113	2
PHOENIX	Paraffin, white	18K01-T06-063753	1
Phoenix	Hydrophilic ointment DAB	19000413001	1
Phoenix	Hydrophobic base gel DAC	19001129	7
Phoenix	Hydrophobic base gel DAC	19002599	3
Phoenix	Wool alcohol ointment DAB	19003801	3
Phoenix	Paraffin, white	19004888	1
phoenix	Wool alcohol ointment DAB	19007102	1
Phoenix	Paraffin, white	19135408	1
Phoenix	Hydrophilic ointment DAB	19190601	1
Phoenix	Hydrophilic ointment DAB	19190703	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Emulsifying hydrophobic base...	19244203	2
Phoenix	Paraffin, liquid	192559012	1
Phoenix	Paraffin, liquid	196310-0004	1
Phoenix	Unguentum Cordes®	19A001	1
Phoenix	Unguentum Cordes®	19A0154	1
Phoenix	Unguentum Cordes®	19A021	1
Phoenix	Wool alcohol ointment DAB	20000380	1
Phoenix	Paraffin, white	20000510007	1
Phoenix	Paraffin, white	20000627010	3
Phoenix	Paraffin, white	20002327003	1
Phoenix	Paraffin, liquid	200029903	1
Phoenix	Paraffin, white	20003237001	1
Phoenix	Paraffin, liquid	2000418006	1
Phoenix	Paraffin, white	200500506	1
Phoenix	Unguentum Cordes®	20A0049	1
Phoenix	Unguentum Cordes®	20A0090	1
Phoenix	Unguentum Cordes®	20A0234	1
Phoenix	Wool alcohol ointment DAB	21000376	2
Phoenix	Wool alcohol ointment DAB	21003022	2
Phoenix	Unguentum Cordes®	21A0055	1
Phoenix	Unguentum Cordes®	21a0064	1
Phoenix	Unguentum Cordes®	21A0064	1
Phoenix	Wool alcohol ointment DAB	22532710	1
Phoenix	Paraffin, white	270491	1
Phoenix	Wool alcohol ointment DAB	283619	1
Phoenix	Paraffin, white	3024	1
Phoenix	Wool alcohol ointment DAB	305880	1
Phoenix	Hydrophilic ointment DAB	307091	1
Phoenix	Wool alcohol ointment DAB	30831410	1
Phoenix	Hydrophilic ointment DAB	308898	3
Phoenix	Wool alcohol ointment DAB	3126	1
Phoenix	Wool alcohol ointment DAB	32344210	1
Phoenix	Paraffin, white	3393	1
Phoenix	Unguentum Cordes®	3422	1
Phoenix	Wool alcohol ointment DAB	41940610	1
Phoenix	Paraffin, yellow	57/AKD7	1
Phoenix	Wool alcohol ointment DAB	80848610	1
Phoenix	Paraffin, white	T13-0811505	1
PhoenixWE:7.02.2017 E...	Unguentum Cordes®	16A141	1
Phönix / Ichthyol	Unguentum Cordes®	16A176	1
Phönix 08.04.2013	Paraffin, white	12/17-T01	1
Phönix 15.10.2019	Paraffin, white	18314809	1
Phönix 16.10.12	Paraffin, white	12D16-T01	1
Phönix Gotha	Eye ointment, emulsifying DAC	10C030818	1
Phönix Gotha	Paraffin, white	12032413	1
Phönix Gotha	Wool alcohol ointment DAB	12152001	2
Phönix Gotha	Hydrophilic ointment DAB	12G18-T10	1
Phönix Gotha	Unguentum Cordes®	13A032	1
Phönix Gotha	Paraffin, white	14087402	1
Phönix Gotha	Wool alcohol ointment DAB	14282801	1
Phönix Gotha	Paraffin, white	15060012	1
Phönix Gotha	Emulsifying hydrophobic base...	15064101	1
Phönix Gotha	Wool alcohol ointment DAB	15225601	1
Phönix Gotha	Eye ointment, emulsifying DAC	15C031218	1
Phönix Gotha	Eye ointment, emulsifying DAC	16B061212	1
Phönix Gotha	Paraffin, yellow	18000670	1
Phönix Gotha	Wool alcohol ointment DAB	18001094	1
Phönix Gotha	Wool alcohol ointment DAB	19003801	1
Phönix Gotha	Paraffin, white	270633	1
Phönix Gotha	Paraffin, white	270634	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix Gotha	Wool alcohol ointment SR wit...	284381	1
Phönix Gotha	Wool alcohol ointment DAB	286884	1
Phönix Gotha	Wool alcohol ointment DAB	288688	1
Phönix Gotha	Paraffin, white	289344	1
Phönix Gotha	Wool alcohol ointment DAB	295206	1
Phönix Gotha	Wool alcohol ointment DAB	31231810	1
Phönix Gotha	Wool alcohol ointment DAB	34554710	1
Phönix Gotha	Eye ointment, emulsifying DAC	3B070319	1
Phönix Gotha	Wool alcohol ointment DAB	41930610	1
Phönix Gotha	Eye ointment, emulsifying DAC	5B220413	1
Phönix Gotha	Eye ointment, emulsifying DAC	7C140519	1
Phönix Ichthyol Gesells...	Unguentum Cordes®	20A0153	1
phönix Pharmochem	Hydrophilic ointment DAB	17040301	2
Phönix W.E:09.03.18 E....	Unguentum Cordes®	17A098	1
Phönix/ Beiersdorf Werke	Wool alcohol ointment DAB	64833610	1
Phönix/ Cordes	Unguentum Cordes®	19A128	1
Phönix/ Ichtyol Cordes...	Unguentum Cordes®	19A0080	1
Phönix/Beiersdorf	Wool alcohol ointment DAB	71124510	1
Phönix/Beiersdorf	Wool alcohol ointment DAB	81348810	1
Phönix/Beiersdorf	Wool alcohol ointment DAB	82721410	1
Phönix/beiersdorf	Wool alcohol ointment DAB	84222410	1
Phönix/Beiersdorf	Wool alcohol ointment DAB	94037210	2
Phönix/Bionorica	Hydrophilic ointment DAB	17083002	3
Phönix/Caesar & Loretz ...	Paraffin, white	18174305	1
Phönix/Cordes	Unguentum Cordes®	17A104	1
Phönix/Cordes	Unguentum Cordes®	18A215	3
Phönix/Fagon	Wool alcohol ointment DAB	16007202	1
Phönix/Ichthyol	Unguentum Cordes®	12A139	1
Phönix/Ichthyol	Unguentum Cordes®	15A123	1
Phönix/Ichthyol	Unguentum Cordes®	17A005	2
Phönix/Ichthyol	Unguentum Cordes®	17A007	1
Phönix/Ichthyol	Unguentum Cordes®	17A052	1
Phönix/Ichthyol	Unguentum Cordes®	17A069	1
Phönix/Ichthyol	Unguentum Cordes®	17A084	1
Phönix/Ichthyol	Unguentum Cordes®	17A113	1
Phönix/Ichthyol	Unguentum Cordes®	18A050	1
Phönix/Ichthyol	Unguentum Cordes®	20A0097	1
Phönix/Ichthyol	Unguentum Cordes®	21A0114	1
Phönix/ICHTHYOL-Gesells...	Unguentum Cordes®	18A111	1
Phönix/ICHTHYOL-Gesells...	Unguentum Cordes®	18A113	1
Phönix/Ichthyol-Gesells...	Unguentum Cordes®	19A006	1
phönix	Wool alcohol ointment DAB		1
Phönix	Paraffin, white	12032413	1
Phönix	Paraffin, white	12115107	1
Phönix	Paraffin, white	12209210	1
Phönix	Hydrophilic ointment DAB	12311301	1
Phönix	Unguentum Cordes®	12A049	1
Phönix	Unguentum Cordes®	12A129	1
Phönix	Unguentum Cordes®	12A131	1
Phönix	Wool alcohol ointment DAB	13114103	1
Phönix	Paraffin, white	13268410	1
Phonix	Paraffin, white	13341604	1
Phönix	Unguentum Cordes®	13A034	1
phönix	Unguentum Cordes®	13A051	1
Phönix	Hydrophilic ointment DAB	14024701	1
Phönix	Wool alcohol ointment DAB	14067001	1
Phönix	Paraffin, yellow	14324301	1
phönix	Unguentum Cordes®	14A116	1
Phönix	Wool alcohol ointment DAB	153620001	1
phönix	Eye paraffin	15441514	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Paraffin, white	15441514	2
phönix	Hydrophilic ointment DAB	16008701	1
Phönix	Hydrophilic ointment DAB	16009301	1
Phönix	Paraffin, yellow	16032602	1
Phönix	Paraffin, white	1612007-01	1
phönix	Paraffin, white	16138003	1
phönix	Hydrophilic ointment DAB	16166801	1
Phönix	Hydrophilic ointment DAB	16166801	1
Phönix	Hydrophilic ointment DAB	16166901	1
phönix	Wool alcohol ointment DAB	16198501	1
PHÖNIX	Paraffin, white	16227402	1
Phönix	Paraffin, white	16227406	1
Phönix	Hydrophobic base gel DAC	16240105	1
Phönix	Hydrophobic base gel DAC	16240113	1
Phönix	Eye paraffin	16271810	2
Phönix	Paraffin, yellow	16281001	1
phönix	Hydrophilic ointment DAB	16282401	1
Phönix	Hydrophilic ointment DAB	16282702	1
phönix	Wool alcohol ointment DAB	16331701	2
Phönix	Unguentum Cordes®	16A048	1
PHÖNIX	Unguentum Cordes®	16A124	1
Phönix	Unguentum Cordes®	16A141	1
Phönix	Hydrophilic ointment DAB	17/11-T03-048188	2
Phönix	Hydrophobic base gel DAC	17001133	1
Phönix	Paraffin, white	17038215	1
phönix	Hydrophilic ointment DAB	17040301	1
Phönix	Hydrophobic base gel DAC	17043606	1
Phönix	Eye paraffin	17052010	4
Phönix	Wool alcohol ointment DAB	17104901	2
Phönix	Emulsifying hydrophobic base...	17113703	1
Phönix	Wool alcohol ointment DAB	17141203	2
PHÖNIX	Paraffin, white	17204204	1
Phönix	Paraffin, white	17204209	1
Phönix	Hydrophilic ointment DAB	17290801	2
Phönix	Paraffin, yellow	17303501	2
Phönix	Hydrophilic ointment DAB	17330601	2
Phönix	Eye paraffin	17342001	1
Phönix	Eye paraffin	17342014	1
Phönix	Paraffin, white	17347902	1
PHÖNIX	Paraffin, white	17350007	1
Phönix	Paraffin, white	17350013	1
Phönix	Paraffin, white	17350017	1
Phönix	Unguentum Cordes®	17A007	1
Phönix	Unguentum Cordes®	17A045	1
Phönix	Unguentum Cordes®	17A052	1
PHÖNIX	Unguentum Cordes®	17A056	1
Phönix	Unguentum Cordes®	17A057	1
Phönix	Unguentum Cordes®	17A069	1
Phönix	Unguentum Cordes®	17A084	2
Phönix	Unguentum Cordes®	17A098	1
PHÖNIX	Unguentum Cordes®	17A098	1
Phönix	Unguentum Cordes®	17A101	1
PHÖNIX	Unguentum Cordes®	17A105	1
Phönix	Unguentum Cordes®	17A126	1
Phönix	Unguentum Cordes®	17A127	1
Phönix	Unguentum Cordes®	17A142	1
Phönix	Unguentum Cordes®	17A163	1
Phönix	Hydrophobic base gel DAC	18004042	1
Phönix	Paraffin, white	18005015	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Paraffin, white	18005023	1
Phönix	Paraffin, white	18005033	2
Phönix	Hydrophobic base gel DAC	18005369	2
Phönix	Wool alcohol ointment DAB	18005545	1
PHÖNIX	Paraffin, white	1811025-01	1
Phönix	Paraffin, white	18174302	1
Phönix	Paraffin, white	18174312	1
Phönix	Eye paraffin	181797002	1
Phönix	Eye paraffin	18179704	1
Phönix	Hydrophilic ointment DAB	18207501	1
Phönix	Hydrophobic base gel DAC	18240307	1
Phönix	Paraffin, white	18314809	1
Phönix	Unguentum Cordes®	18A049	1
Phönix	Unguentum Cordes®	18A067	1
Phönix	Unguentum Cordes®	18A105	1
Phönix	Unguentum Cordes®	18A110	1
Phönix	Unguentum Cordes®	18a111	1
Phönix	Unguentum Cordes®	18A131	1
Phönix	Unguentum Cordes®	18A190	1
Phönix	Unguentum Cordes®	18A216	1
Phönix	Unguentum Cordes®	18A223	1
Phönix	Unguentum Cordes®	18A224	2
Phönix	Unguentum Cordes®	18A253	1
PHÖNIX	Wool alcohol ointment DAB	190000470001	1
Phönix	Wool alcohol ointment DAB	19005078	1
Phönix	Wool alcohol ointment DAB	19007001	1
Phönix	Paraffin, liquid	19010307	1
Phönix	Hydrophilic ointment DAB	19025402	1
Phönix	Paraffin, liquid	190901001	1
Phönix	Paraffin, white	19135405	1
Phönix	Paraffin, yellow	19165803	1
Phönix	Wool alcohol ointment DAB	19181902	3
Phönix	Hydrophilic ointment DAB	19190601	1
Phönix	Paraffin, yellow	192497004	1
Phönix	Paraffin, white	192540001	1
PHÖNIX	Paraffin, liquid	192559004	1
PHÖNIX	Paraffin, white	20000122001	1
Phönix	Paraffin, white	20000510007	1
Phönix	Paraffin, white	20000510013	1
Phönix	Paraffin, white	20000510014	1
Phönix	Eye paraffin	20000627005	1
Phönix	Wool alcohol ointment DAB	20001901001	2
Phönix	Wool alcohol ointment DAB	20002085003	1
Phönix	Emulsifying hydrophobic base...	2000220002	2
PHÖNIX	Wool alcohol ointment DAB	20003085004	1
Phönix	Wool alcohol ointment DAB	20003916	1
PHÖNIX	Paraffin, liquid	20004108008	1
Phönix	Unguentum Cordes®	20A0035	1
PHÖNIX	Unguentum Cordes®	20A0036	1
PHÖNIX	Unguentum Cordes®	20A0045	1
Phönix	Unguentum Cordes®	20A0090	1
Phönix	Unguentum Cordes®	20A0093	1
Phönix	Unguentum Cordes®	20A0098	1
Phönix	Paraffin, white	21000297007	1
Phönix	Wool alcohol ointment DAB	21000941001	1
Phönix	Wool alcohol ointment DAB	21001946002	1
Phönix	Eye paraffin	21001982001	1
Phönix	Hydrophobic base gel DAC	21002113001	1
Phönix	Paraffin, white	21002294	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Paraffin, white	21002861002	2
Phönix	Wool alcohol ointment DAB	21003591002	1
PHÖNIX	Unguentum Cordes®	21A0064	1
Phönix	Unguentum Cordes®	21A0184	1
Phönix	Wool alcohol ointment DAB	23733710	1
Phönix	Wool alcohol ointment SR wit…	270781	1
Phönix	Wool alcohol ointment DAB	275999	1
Phönix	Paraffin, white	277986	1
Phönix	Paraffin, white	277987	1
Phönix	Paraffin, white	280451	1
Phönix	Paraffin, white	281291	1
Phönix	Paraffin, white	304124	1
Phönix	Paraffin, white	306020	1
Phönix	Wool alcohol ointment DAB	30821610	1
Phönix	Wool alcohol ointment DAB	31322010	1
Phönix	Unguentum Cordes®	3147	1
Phönix	Paraffin, white	3156	1
Phönix	Unguentum Cordes®	3158	1
Phönix	Hydrophobic base gel DAC	3174	1
Phönix	Wool alcohol ointment DAB	4012410	1
Phönix	Hydrophilic ointment DAB	5321400	1
Phönix	Paraffin, white	5489700	1
Phönix	Wool alcohol ointment DAB	60429110	1
Phönix	Wool alcohol ointment DAB	60539210	1
Phönix	Wool alcohol ointment DAB	61149910	1
PHÖNIX	Wool alcohol ointment DAB	63052310	1
Phönix	Wool alcohol ointment DAB	64833610	1
Phönix	Wool alcohol ointment DAB	71274810	1
PHÖNIX	Wool alcohol ointment DAB	74017010	1
Phönix	Wool alcohol ointment DAB	81819410	2
PhönixWE:2.02.2017 EK…	Hydrophilic ointment DAB	16166801	1
PhR Neidhardt	Eye ointment, emulsifying DAC	20A011215	1
PKH GmbH Halle	Eye ointment, emulsifying DAC	1C080114	1
PKH GmbH/ Phönix	Eye ointment, emulsifying DAC	12C300813	1
PKH GmbH/AHD	Eye ointment, emulsifying DAC	11B030818	1
PKH Gmbh/Phönix	Eye ointment, emulsifying DAC	7B210513	1
PKH GmbH	Eye ointment, emulsifying DAC	13A011019	1
PKH GmbH	Paraffin, liquid	7A260219	1
PKH Halle / Noweda	Eye ointment, emulsifying DAC	7D210513	1
PKH Halle / Noweda	Eye ointment, emulsifying DAC	9C250612	1
PKH Halle / Phönix	Eye ointment, emulsifying DAC	3B020320	1
PKH Halle/ Phoenix	Eye ointment, emulsifying DAC	11D170713	1
PKH Halle/ Phoenix	Eye ointment, emulsifying DAC	3A180213	1
PKH Halle/Kehr	Eye ointment, emulsifying DAC	6B040520	1
PKH Halle	Eye ointment, emulsifying DAC	4D010419	1
PKH/ Noweda	Eye ointment, emulsifying DAC	12E010814	1
PKH/Gehe	Eye ointment, emulsifying DAC	10C170613	1
PKH/Gehe	Eye ointment, emulsifying DAC	3B180213	1
PKH	Eye ointment, emulsifying DAC	11B011116	2
PKH	Eye ointment, emulsifying DAC	18B231117	1
Röntgen	Hydrophilic ointment DAB	17330302	2
Röntgen	Paraffin, white	18002117	1
Röntgen	Hydrophilic ointment DAB	18004579	1
Röntgen	Eye paraffin	20000627100	1
Röntgen	Paraffin, white	21002101018	1
Sana 13.11.14 EK 8,96	Wool alcohol ointment DAB	14153101	1
Sana 21.03.16 EK 4,96	Paraffin, white	15336810	1
Sana 29.11.Ek.6,95	Paraffin, yellow	15063904	1
sana/ Ichtyol	Unguentum Cordes®	20A0084	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sana/Ichthyol	Unguentum Cordes®	21A0150	1
sana	Unguentum Cordes®	21A0163	1
Sanacop/Ichthyol	Unguentum Cordes®	17A007	1
Sanacop/Ichthyol	Unguentum Cordes®	18A113	1
Sanacop	Wool alcohol ointment SR wit...	288688	1
Sanacopr	Paraffin, liquid	19271401	1
sanacorb	Hydrophilic ointment DAB	17040201	1
sanacorb	Paraffin, yellow	17162906	1
sanacorb	Hydrophilic ointment DAB	17330302	2
sanacorb	Unguentum Cordes®	17A007	1
Sanacorb	Unguentum Cordes®	18A112	1
sanacorb	Wool alcohol ointment DAB	54147810	3
Sanacoro W.E:22.02.18 ...	Wool alcohol ointment DAB	17104902	1
Sanacorp 31.10.15	Wool alcohol ointment DAB	15228202	2
Sanacorp E.K:5,64 -100...	Paraffin, white	309564	1
Sanacorp / Ichthyol	Unguentum Cordes®	12A206	1
Sanacorp / Ichthyol	Unguentum Cordes®	18A083	1
Sanacorp 05.07.14 EK: 6...	Paraffin, white	13365104	2
Sanacorp 06.05.19 Ek: 5...	Unguentum Cordes®	18a101	1
Sanacorp 06.07.2019 5,68EUR	Paraffin, white	18006514	1
Sanacorp 18.03.17 Ek:11...	Hydrophilic ointment DAB	16167001	1
Sanacorp 37.03.2017 ek:...	Paraffin, white	16272002	1
Sanacorp ichthyol 06.01...	Unguentum Cordes®	18a111	1
Sanacorp, 15.08.2016, 3...	Unguentum Cordes®	16A048	1
Sanacorp, 21.07.2016	Paraffin, white	1605019-01	2
sanacorp, 6,08EUR, 29.08....	Paraffin, white	16138003	1
Sanacorp,04.04.17, 6,08EUR	Paraffin, white	16181904	1
Sanacorp/ Beiersdorf	Wool alcohol ointment DAB	33723610	1
Sanacorp/ Henry Lamotte	Paraffin, liquid	1000010844	1
Sanacorp/ Henry Lamotte	Paraffin, liquid	1000014411	2
Sanacorp/ Henry Lamotte	Paraffin, liquid	100010844	1
Sanacorp/ Ichthyol	Unguentum Cordes®	10A215	1
SANACORP/ Ichthyol	Unguentum Cordes®	18A107	1
Sanacorp/ Ichthyol	Unguentum Cordes®	18A215	1
Sanacorp/ Ichthyol	Unguentum Cordes®	19A0181	1
SANACORP/ Ichthyol	Unguentum Cordes®	20A0098	1
Sanacorp/ ICHTHYOL-Gese...	Unguentum Cordes®	17A106	1
Sanacorp/ ICHTHYOL-Gese...	Unguentum Cordes®	17A113	1
Sanacorp/ ICHTHYOL-Gese...	Unguentum Cordes®	18A049	1
Sanacorp/ Sanova	Unguentum Cordes®	11A187	1
Sanacorp/Beiersdof	Wool alcohol ointment DAB	71124510	2
Sanacorp/Beiersdorf	Wool alcohol ointment DAB	94037210	1
sanacorp/ichthyol	Unguentum Cordes®	14A061	2
sanacorp/ichthyol	Unguentum Cordes®	14A117	1
sanacorp/ichthyol	Unguentum Cordes®	15A022	1
sanacorp/ichthyol	Unguentum Cordes®	15A042	1
sanacorp/ichthyol	Unguentum Cordes®	15A044	1
sanacorp/ichthyol	Unguentum Cordes®	15A108	1
sanacorp/ichthyol	Unguentum Cordes®	15A156	1
sanacorp/ichthyol	Unguentum Cordes®	16A121	1
sanacorp/ichthyol	Unguentum Cordes®	16A139	2
sanacorp/ichthyol	Unguentum Cordes®	16A142	1
Sanacorp/Ichthyol	Unguentum Cordes®	17A005	2
Sanacorp/Ichthyol	Unguentum Cordes®	17A007	1
Sanacorp/Ichthyol	Unguentum Cordes®	17A084	2
Sanacorp/Ichthyol-Gesel...	Unguentum Cordes®	15A062	1
Sanacorp/ICHTHYOL-Gesel...	Unguentum Cordes®	16A143	1
Sanacorp/ICHTHYOL-Gesel...	Unguentum Cordes®	17A164	1
Sanacorp	Paraffin, white		5
Sanacorp	Paraffin, white	102/AKD1	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Unguentum Cordes®	103/AKD1	1
Sanacorp	Paraffin, white	106/AKD4	1
Sanacorp	Paraffin, white	107/AKD6	1
Sanacorp	Paraffin, white	12031506	1
Sanacorp	Paraffin, white	1205317	1
Sanacorp	Paraffin, white	12115107	1
Sanacorp	Paraffin, white	1215107	1
Sanacorp	Wool alcohol ointment DAB	12151801	1
Sanacorp	Paraffin, white	12190401	1
Sanacorp	Hydrophilic ointment DAB	12205001	1
Sanacorp	Paraffin, white	12311010	1
Sanacorp	Paraffin, white	12337704	2
Sanacorp	Paraffin, white	12337708	1
Sanacorp	Paraffin, white	12374502	1
Sanacorp	Unguentum Cordes®	12A129	1
Sanacorp	Unguentum Cordes®	12A160	1
Sanacorp	Unguentum Cordes®	12a184	1
Sanacorp	Paraffin, white	13084906	2
Sanacorp	Hydrophilic ointment DAB	13117102	3
Sanacorp	Paraffin, white	13130909	2
Sanacorp	Hydrophobic base gel DAC	13165201	1
Sanacorp	Emulsifying hydrophobic base…	13177601	1
Sanacorp	Wool alcohol ointment DAB	13255001	1
Sanacorp	Paraffin, white	13268420	1
Sanacorp	Paraffin, white	13338712	1
Sanacorp	Paraffin, white	13380707	1
Sanacorp	Paraffin, white	13380709	1
Sanacorp	Wool alcohol ointment DAB	13554310	1
Sanacorp	Unguentum Cordes®	13A042	1
Sanacorp	Unguentum Cordes®	13A068	1
Sanacorp	Unguentum Cordes®	13A136	1
Sanacorp	Unguentum Cordes®	13A159	1
Sanacorp	Paraffin, white	14087410	1
Sanacorp	Eye paraffin	14124704	1
Sanacorp	Eye paraffin	14124705	1
Sanacorp	Eye paraffin	14124707	1
sanacorp	Unguentum Cordes®	14A060	1
Sanacorp	Unguentum Cordes®	14A172	1
Sanacorp	Hydrophilic ointment DAB	14G08-T08-013954	1
Sanacorp	Paraffin, white	15204301	1
Sanacorp	Paraffin, yellow	15330401	1
Sanacorp	Paraffin, white	15339808	1
Sanacorp	Paraffin, white	15441504	1
Sanacorp	Unguentum Cordes®	15A043	1
Sanacorp	Unguentum Cordes®	15A060	1
Sanacorp	Unguentum Cordes®	15A137	1
Sanacorp	Unguentum Cordes®	15A191	1
sanacorp	Hydrophilic ointment DAB	15F09-T02023370	1
Sanacorp	Hydrophilic ointment DAB	16008701	1
Sanacorp	Paraffin, yellow	16096904	1
Sanacorp	Paraffin, white	16181907	1
Sanacorp	Wool alcohol ointment DAB	16198401	1
Sanacorp	Paraffin, white	16227412	1
Sanacorp	Eye paraffin	16271807	3
Sanacorp	Eye paraffin	16271810	1
Sanacorp	Unguentum Cordes®	16A048	2
Sanacorp	Unguentum Cordes®	16A085	1
Sanacorp	Unguentum Cordes®	16a184	2
Sanacorp	Paraffin, white	16AKD2	1
Sanacorp	Wool alcohol ointment DAB	17001876	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Emulsifying hydrophobic base…	17032303	1
Sanacorp	Hydrophilic ointment DAB	17040301	1
Sanacorp	Eye paraffin	17052001	1
Sanacorp	Eye paraffin	17052003	2
Sanacorp	Eye paraffin	17052010	2
Sanacorp	Paraffin, yellow	17052401	1
Sanacorp	Paraffin, white	17106001	1
Sanacorp	Paraffin, white	17106002	2
Sanacorp	Wool alcohol ointment DAB	17141401	1
Sanacorp	Paraffin, white	17204201	2
Sanacorp	Paraffin, white	17204209	1
Sanacorp	Hydrophilic ointment DAB	17290702	1
Sanacorp	Hydrophilic ointment DAB	17290801	1
Sanacorp	Wool alcohol ointment DAB	17301001	1
Sanacorp	Wool alcohol ointment DAB	17301101	2
Sanacorp	Paraffin, yellow	17303401	1
Sanacorp	Hydrophilic ointment DAB	17330301	4
Sanacorp	Eye paraffin	17342005	1
sanacorp	Eye paraffin	17342006	1
Sanacorp	Eye paraffin	17342015	1
Sanacorp	Paraffin, white	17347802	1
Sanacorp	Paraffin, white	17347803	1
Sanacorp	Paraffin, white	17350007	1
Sanacorp	Paraffin, white	17350016	1
Sanacorp	Unguentum Cordes®	17A045	1
Sanacorp	Unguentum Cordes®	17A069	1
Sanacorp	Wool alcohol ointment DAB	18002497	1
Sanacorp	Paraffin, white	18005016	1
Sanacorp	Paraffin, white	18005023	1
Sanacorp	Paraffin, white	18005039	1
Sanacorp	Paraffin, white	18006406	1
Sanacorp	Wool alcohol ointment DAB	18132501	1
Sanacorp	Wool alcohol ointment DAB	181362604	1
Sanacorp	Hydrophobic base gel DAC	18140606	1
Sanacorp	Paraffin, white	18174301	1
Sanacorp	Paraffin, white	18174304	1
Sanacorp	Paraffin, white	18174312	1
Sanacorp	Eye paraffin	18179717	1
Sanacorp	Hydrophilic ointment DAB	18207502	1
Sanacorp	Hydrophobic base gel DAC	18240302	1
Sanacorp	Wool alcohol ointment DAB	18250901	1
Sanacorp	Paraffin, yellow	18296802	1
Sanacorp	Unguentum Cordes®	18A001	1
Sanacorp	Unguentum Cordes®	18A007	1
Sanacorp	Unguentum Cordes®	18A087	1
Sanacorp	Unguentum Cordes®	18A110	1
Sanacorp	Unguentum Cordes®	18A112	3
SANACORP	Unguentum Cordes®	18A190	1
sanacorp	Unguentum Cordes®	18A223	1
Sanacorp	Unguentum Cordes®	18A253	1
Sanacorp	Eye paraffin	19/AKD4	1
Sanacorp	Wool alcohol ointment DAB	19000472002	2
Sanacorp	Wool alcohol ointment SR wit…	19000657002	1
Sanacorp	Paraffin, yellow	19001803	1
sanacorp	Hydrophobic base gel DAC	19003315	1
Sanacorp	Hydrophilic ointment DAB	19025402	1
Sanacorp	Paraffin, white	190402801	1
Sanacorp	Wool alcohol ointment DAB	19041101	1
Sanacorp	Paraffin, white	19135402	1
Sanacorp	Paraffin, yellow	19165701	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Hydrophobic base gel DAC	19253903	1
Sanacorp	Paraffin, white	192540001	1
Sanacorp	Unguentum Cordes®	19A003	1
SANACORP	Unguentum Cordes®	19A004	1
Sanacorp	Unguentum Cordes®	19A006	1
Sanacorp	Unguentum Cordes®	19A0153	1
Sanacorp	Unguentum Cordes®	19A026	1
Sanacorp	Unguentum Cordes®	19A182	3
Sanacorp	Unguentum Cordes®	2/AKD2	1
Sanacorp	Hydrophobic base gel DAC	20001105	1
Sanacorp	Hydrophobic base gel DAC	20004214	1
Sanacorp	Unguentum Cordes®	20A0002	2
Sanacorp	Unguentum Cordes®	20a0149	1
Sanacorp	Wool alcohol ointment DAB	20C23-T26-081551	1
Sanacorp	Hydrophobic base gel DAC	21000169	2
Sanacorp	Paraffin, white	21000297007	1
Sanacorp	Eye paraffin	21001982001	1
Sanacorp	Unguentum Cordes®	21a0075	1
Sanacorp	Unguentum Cordes®	21A0102	1
Sanacorp	Unguentum Cordes®	21A0201	1
Sanacorp	Wool alcohol ointment DAB	24254010	1
Sanacorp	Wool alcohol ointment DAB	274283	1
Sanacorp	Wool alcohol ointment DAB	277190	2
Sanacorp	Wool alcohol ointment DAB	279927	1
Sanacorp	Wool alcohol ointment DAB	28/AKD12	1
Sanacorp	Wool alcohol ointment DAB	289509	1
Sanacorp	Hydrophobic base gel DAC	308440	1
Sanacorp	Wool alcohol ointment DAB	30851510	1
Sanacorp	Paraffin, white	309563	1
Sanacorp	Paraffin, yellow	310192	2
Sanacorp	Wool alcohol ointment DAB	41047010	1
Sanacorp	Wool alcohol ointment DAB	43112910	1
Sanacorp	Wool alcohol ointment DAB	44/AKD10	1
Sanacorp	Wool alcohol ointment DAB	5414781	1
Sanacorp	Paraffin, yellow	57/AKD4	1
Sanacorp	Paraffin, yellow	58/AKD12	1
Sanacorp	Hydrophilic ointment DAB	6/AKD7	1
Sanacorp	Wool alcohol ointment DAB	62031710	1
Sanacorp	Wool alcohol ointment SR wit…	6550118	1
Sanacorp	Wool alcohol ointment DAB	73035910	1
Sanacorp	Wool alcohol ointment DAB	74017010	2
Sanacorp	Wool alcohol ointment DAB	74747510	1
Sanacorp	Paraffin, liquid	8003083001	1
Sanacorp	Wool alcohol ointment DAB	82541010	1
Sanacorp	Wool alcohol ointment DAB	829110	1
SANACORP	Wool alcohol ointment DAB	84232410	1
Sanacorp	Wool alcohol ointment DAB	93456310	1
Sanacorp	Wool alcohol ointment DAB	94037210	1
Sanacorp	Hydrophobic base gel DAC	AKD18	1
Sanacorp	Hydrophilic ointment DAB	AKD32	1
Sanova Pharma GesmbH	Unguentum Cordes®	18A223	2
Sanova Pharma/Alliance …	Unguentum Cordes®	20A0034	1
Sanova Pharma/Gehe	Unguentum Cordes®	16A102	2
Sanova Pharma	Unguentum Cordes®	13A166	1
Sanova Pharma	Unguentum Cordes®	17A142	1
Sanova/ Phönix	Unguentum Cordes®	10A111	1
Sanova	Unguentum Cordes®	11A040	1
Sanova	Unguentum Cordes®	12A130	1
SANOVA	Unguentum Cordes®	15A044	1
SANOVA	Unguentum Cordes®	16A045	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanova	Unguentum Cordes®	17A002	1
sanova	Unguentum Cordes®	20A0172	1
sanova	Unguentum Cordes®	21A0163	1
Schärer & Schläpfer AG/...	Wool alcohol ointment DAB	50955510	1
siehe Protokoll Lennartz	Paraffin, liquid	sieheProtokollLennartz	1
Sigma-Aldrich	Paraffin, white	STBJ4032	1
Sonnen-Apotheke Wefensl...	Wool alcohol ointment DAB	1/16	1
Sonnen-Apotheke Wefensl...	Wool alcohol ointment DAB	9/17	1
Spangro 26.2.2014	Paraffin, white	13338702	1
Spangro	Wool alcohol ointment DAB	17411203	1
Spangropharm	Unguentum Cordes®	12A185	1
Spangropharm	Unguentum Cordes®	13A042	1
Spangropharm	Unguentum Cordes®	13A171	1
Spangropharm	Unguentum Cordes®	18A105	1
Spangropharm	Unguentum Cordes®	19A020	1
Spangropharm	Hydrophobic base gel DAC	2001559002	1
Spangropharm	Unguentum Cordes®	20A0036	1
Spangropharm	Wool alcohol ointment DAB	2721410	1
Spangropharm	Wool alcohol ointment DAB	93927110	2
Stumpf/Beiersdorf Ag	Wool alcohol ointment DAB	33323210	1
Stumpf/Beiersdorf Ag	Wool alcohol ointment DAB	33343310	1
Stumpf/Beiersdorf Ag	Wool alcohol ointment DAB	40956810	1
Stumpf/Beiersdorf Ag	Wool alcohol ointment DAB	41910710	1
Stumpf/Ichthyol	Unguentum Cordes®	12A115	1
Stumpf/Ichthyol	Unguentum Cordes®	12A190	1
Stumpf/Ichthyol-Gesells...	Unguentum Cordes®	15A089	1
Stumpf/Ichtyol	Unguentum Cordes®	13A051	1
Stumpf/Ichtyol	Unguentum Cordes®	13A142	1
Stumpf/Ichtyol	Unguentum Cordes®	13A166	1
Stumpf/Ichtyol	Unguentum Cordes®	14A057	1
Stumpf/Ichtyol	Unguentum Cordes®	14A063	1
Stumpf	Wool alcohol ointment DAB	23223410	1
Stumpf	Hydrophilic ointment DAB	269539	1
Stumpf	Hydrophilic ointment DAB	274004	1
Stumpf	Wool alcohol ointment DAB	30851510	1
Taoasis	Emulsifying hydrophobic base...	17113703	1
Th. Geyer	Emulsifying hydrophobic base...	16172301	1
THC Rezeptur-Set	Hydrophilic ointment DAB	307095	1
Unguentum cordes	Unguentum Cordes®	19A0153	1
UNISAN	Wool alcohol ointment DAB	289509	1
Vaselinumm album	Paraffin, white	18006401	1
vdl	Paraffin, white	11265710	1
VDL	Unguentum Cordes®	15A140	1
VDL	Paraffin, yellow	18092208	1
VDL;13.06.14	Paraffin, white	13268421	1
WE:Phönix 02.09.2016 E...	Paraffin, white	302037	2
WE:Sanacorp 05.09.2016...	Paraffin, yellow	15330601	2
Wepa/ Phoenix	Hydrophilic ointment DAB	17040301	1
wollff/AHD	Paraffin, white	5538300	1
ychthyol	Unguentum Cordes®	16A184	1
Ychtyol/Phönix	Unguentum Cordes®	16A045	1

- 269 306 spectra from 1323 *Apo-Ident* customers from a total of 48 748 batches from a further 332 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Validation results

The validation runs checked whether the substance/substance group *Paraffin classification* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Paraffin classification* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	4690	0	63 809
Type B	0	7741	0	103 422
Type C	0	28 099	53	265 675

The substance/substance group *Paraffin classification* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.8721 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.9225 %)
Type C	100.0000 % (> 99.6826 %)	99.8117 % (> 99.8011 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Paraffin classification* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Wool fat	9.91	–
Squalane	12.09	–
Softisan® 378	17.12	–
Softisan® 649	19.36	–
Macrogol 8 stereate type I	20.04	–
Decyl oleate	20.39	–
Shea butter, refined	21.37	–
Triglycerides, medium-chain	21.58	–
2-ethylhexyl laurate	24.14	–
Pasta Cordes®	24.28	–
Olive oil, native	24.61	–
Apricot kernel oil, refined	25.28	–
Avocado oil, refined	25.31	–
Peanut oil, refined	26.30	–
Triglycerol diisostearate	29.18	–
Permethrin 25% solution	29.30	–
Laurel oil	30.01	–
Jojoba Oil, native	30.90	–

continued on the next page

continued from previous page

Substanz	Distance in main model	Distance in second-stage model
Oleyl oleate (stabilised)	31.64	–
Camphor ointment	33.04	–
Sesame oil, refined	35.87	–
Sorbitan trioleate	36.88	–
Metronidazole 25% in white petrolatum	37.04	–
Isopropyl palmitate	37.49	–
Almond oil, refined	38.49	–
Rapeseed oil, refined	40.17	–
Guaiazulene 25%, water-soluble	41.50	–
Lauromacrogol 400	43.41	–
Macrogolglycerol hydroxystearate 40	43.74	–
Polysorbate 60	45.12	–
Pumpkin seed oil, pressed	47.38	–
Salicylic acid concentrate 5%, white p…	48.34	–
Sunflower oil, refined	50.07	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Paraffin classification* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30932	30932	0.00	17.43
30933	30933	0.00	16.16
31009	31941	3.39	25.39
31010	31940	3.91	26.08
31168	31446	2.99	25.50
31174	31174	0.00	28.39
31228	31228	0.00	32.06
31272	31272	0.00	33.50
31437	31916	1.88	26.86
31441	32017	7.18	30.82
31445	31610	3.39	27.49
31446	31446	0.00	24.54
31456	31456	0.00	38.37
31468	31916	3.56	25.92
31473	31473	0.00	21.13
31522	31522	0.00	26.83
31541	31736	9.33	27.95
31567	31909	7.33	38.39
31570	31570	0.00	20.35
31586	31736	9.93	28.47
31590	31736	8.44	28.74
31601	32495	3.17	24.70
31602	31602	0.00	32.62

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31610	31610	0.00	28.66
31611	31909	5.33	39.22
31612	31456	5.81	39.13
31736	31736	0.00	25.75
31744	31744	0.00	26.65
31807	31602	4.35	33.53
31909	31909	0.00	38.91
31910	31910	0.00	39.72
31916	31916	0.00	25.33
31917	31917	0.00	26.68
31918	31918	0.00	26.68
31920	31920	0.00	17.23
31921	31921	0.00	34.01
31940	31940	0.00	22.77
31941	31941	0.00	22.91
31949	31744	1.48	25.58
31954	31602	2.42	32.30
31999	31999	0.00	26.59
32017	32017	0.00	32.56
32495	32495	0.00	31.29
32517	32517	0.00	30.02
32518	32518	0.00	27.39
32519	32519	0.00	26.76
32777	32777	0.00	26.66
32900	32900	0.00	27.49
32946	31174	6.54	26.62
32947	31999	8.88	24.29
33124	33124	0.00	28.16
33132	33132	0.00	26.58
33133	33133	0.00	25.65
33396	33396	0.00	17.20
33398	33398	0.00	18.06
33399	33399	0.00	17.68
33545	33545	0.00	23.87
33614	34799	5.20	34.00
34160	34160	0.00	18.79
34433	31736	12.87	29.86
34498	34498	0.00	31.74
34509	31917	4.14	33.30
34510	34498	8.97	31.45
34511	31744	3.68	28.44
34542	34542	0.00	34.86
34545	34545	0.00	24.21
34550	34550	0.00	21.71
34551	34552	2.99	25.21
34552	34552	0.00	23.25
34553	34553	0.00	16.60
34555	34555	0.00	20.69
34559	34552	3.71	23.22
34675	35986	6.00	42.10
34678	32017	8.49	28.43

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
34679	34498	5.10	31.41
34799	34799	0.00	37.19
34813	34813	0.00	32.56
34838	32517	4.22	28.62
34844	32517	4.68	28.06
34858	34859	4.57	24.48
34859	34859	0.00	25.58
34860	34860	0.00	29.19
34861	34861	0.00	28.06
34865	34865	0.00	28.10
34867	34861	4.08	27.22
34980	34980	0.00	19.96
35103	31918	4.51	33.94
35324	35324	0.00	29.47
35362	35362	0.00	34.45
35378	35378	0.00	19.55
35518	35518	0.00	18.15
35607	35607	0.00	18.03
35848	31174	8.37	27.38
35986	35986	0.00	43.36
36140	36140	0.00	23.35
36155	36155	0.00	32.45
36199	31228	4.15	28.84
36409	36409	0.00	39.93
36432	36432	0.00	26.72

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Pasta Cordes®**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30633-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Pasta Cordes®

Special notes

When selecting the *Pasta Cordes®* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Pasta Cordes®	6	4	45

Second-stage model

For differentiation of the substance/substance group *Pasta Cordes*® the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Pasta Cordes*®:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Ichthyol	Pasta Cordes®	12A008	30633	40	20121017
Ichthyol	Pasta Cordes®	13A056	31084	40	1406053
Ichthyol	Pasta Cordes®	13A056	31673	60	20130411
Ichthyol	Pasta Cordes®	16A063	33285	40	20160427
Ichthyol	Pasta Cordes®	18A129	34484	40	20180816
Ichthyol	Pasta Cordes®	20A0187	35104	40	20200925
Ichthyol	Pasta Cordes®	20A0050	35105	40	20200313

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 300 spectra of 7 reference samples from the substance/substance group *Pasta Cordes*®. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 199 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Pasta Cordes*®.
- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Ichthyol	Pasta Cordes®	17A173	34046	40
Ichthyol	Pasta Cordes®	17A021	34321	40
Ichthyol	Pasta Cordes®	19A0101	34841	40
Ichthyol	Pasta Cordes®	21A0206	36380	40

- 111 153 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 633 spectra from 210 *Apo-Ident* customers from 54 batches from the substance/substance group *Pasta Cordes®*.
- Among them are spectra of independent samples from 45 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AEP	Pasta Cordes®	19A0101	1
AHL	Pasta Cordes®	17A021	1
Alliance/ICHTHYOL	Pasta Cordes®	17A173	1
Anzag/Ichthyol	Pasta Cordes®	17A173	2
Caelo	Pasta Cordes®	11A206	2
Caelo	Pasta Cordes®	12AD43	1
Caelo	Pasta Cordes®	13A056	1
Caelo	Pasta Cordes®	13A098	3
Caelo	Pasta Cordes®	15a173	1
Caelo	Pasta Cordes®	15A173	5
Caelo	Pasta Cordes®	16A063	3
Caelo	Pasta Cordes®	16A098	4
Caelo	Pasta Cordes®	17A021	3
Caelo	Pasta Cordes®	17A058	5
Caelo	Pasta Cordes®	17A172	1
Cordes / Phönix	Pasta Cordes®	15A173	1
cordes hermann & co	Pasta Cordes®	18A129	1
Cordes Noweda	Pasta Cordes®	17A021	2
Cordes/AHD	Pasta Cordes®	13A056	1
Cordes/Gehe	Pasta Cordes®	14A025	1
Cordes/GEHE	Pasta Cordes®	15A173	1
Cordes/Gehe	Pasta Cordes®	17A021	1
Cordes	Pasta Cordes®	17A021	1
Cordes	Pasta Cordes®	17A021	1
Ebert & Jacobi	Pasta Cordes®	17A172	1
Ebert & Jacobi	Pasta Cordes®	19A0101	1
Euro OTC	Pasta Cordes®	15A173	1
Euro OTC	Pasta Cordes®	16A098	1
Euro OTC	Pasta Cordes®	17A172	1
Fagron	Pasta Cordes®	12A182	2
Fagron	Pasta Cordes®	17A021	1
Fischer/Gehe	Pasta Cordes®	14A142	3
Gehe/Ichthyol	Pasta Cordes®	15A173	1
Gehe/Ichthyol	Pasta Cordes®	19A0101	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe/Phönix	Pasta Cordes®	17A173	1
GEHE	Pasta Cordes®	17A173	1
Geibo/Ichtyol-Gesellsch...	Pasta Cordes®	17A058	1
Geibo11.06.19	Pasta Cordes®	17A173	1
Hermanni	Pasta Cordes®	20A0050	3
Ichthol/ Noweda	Pasta Cordes®	16A098	1
Ichthy/Ebert	Pasta Cordes®	20A0047	1
Ichthy/Sanacorp	Pasta Cordes®	18A181	1
Ichthylol-Gesellschaft	Pasta Cordes®	20A0050	1
Ichthyol / AHD	Pasta Cordes®	14A142	1
Ichthyol / AHD	Pasta Cordes®	19A115	1
Ichthyol / Gehe	Pasta Cordes®	12A182	1
Ichthyol / Gehe	Pasta Cordes®	18A129	1
Ichthyol / Noweda 20.12...	Pasta Cordes®	20A0187	1
Ichthyol / Noweda	Pasta Cordes®	14A142	1
Ichthyol / Noweda	Pasta Cordes®	18A129	2
Ichthyol / Phoenix	Pasta Cordes®	19A0101	1
Ichthyol / Phönix 20.07...	Pasta Cordes®	17A173	1
ichthyol /AHD	Pasta Cordes®	17A0215744	1
Ichthyol /Gehe	Pasta Cordes®	12A182	1
Ichthyol /Noweda	Pasta Cordes®	12A182	1
Ichthyol /Noweda	Pasta Cordes®	13A056	3
Ichthyol /Noweda	Pasta Cordes®	17A173	2
Ichthyol Cordes/Phoenix	Pasta Cordes®	15A173	3
Ichthyol- G.	Pasta Cordes®	19A0101	1
Ichthyol ges	Pasta Cordes®	14A199	1
Ichthyol Gesellschaft /...	Pasta Cordes®	17A173	1
Ichthyol Gesellschaft /...	Pasta Cordes®	180308PC/16A064	1
Ichthyol Gesellschaft C...	Pasta Cordes®	16A098	1
Ichthyol Gesellschaft C...	Pasta Cordes®	14A124	1
Ichthyol Gesellschaft C...	Pasta Cordes®	17A058	1
Ichthyol Gesellschaft C...	Pasta Cordes®	19A0101	1
Ichthyol Gesellschaft C...	Pasta Cordes®	19A115	1
Ichthyol Gesellschaft C...	Pasta Cordes®	20A0050	1
Ichthyol Gesellschaft/ ...	Pasta Cordes®	19A1152x	1
Ichthyol Gesellschaft/ ...	Pasta Cordes®	16A098	1
ichthyol gesellschaft/A...	Pasta Cordes®	20A0050	1
Ichthyol Gesellschaft/C...	Pasta Cordes®	18A129	1
Ichthyol Gesellschaft/G...	Pasta Cordes®	16A063	1
Ichthyol Gesellschaft/G...	Pasta Cordes®	17A021	1
Ichthyol Gesellschaft/K...	Pasta Cordes®	15A121	1
Ichthyol Gesellschaft/N...	Pasta Cordes®	17A173	1
ICHTHYOL Gesellschaft/N...	Pasta Cordes®	18A129	4
Ichthyol Gesellschaft/P...	Pasta Cordes®	19A115	1
Ichthyol Gesellschaft/P...	Pasta Cordes®	17A058	1
Ichthyol Gesellschaft/P...	Pasta Cordes®	20A0050	1
Ichthyol Gesellschaft	Pasta Cordes®	13A056	2
ichthyol gesellschaft	Pasta Cordes®	13A098	1
Ichthyol- Gesellschaft	Pasta Cordes®	15A173	2
Ichthyol Gesellschaft	Pasta Cordes®	16A063	2
Ichthyol- Gesellschaft	Pasta Cordes®	16A098	2
Ichthyol Gesellschaft	Pasta Cordes®	17A021	1
Ichthyol Gesellschaft	Pasta Cordes®	17A173	1
ichthyol gesellschaft	Pasta Cordes®	18A129	1
Ichthyol Gesellschaft	Pasta Cordes®	18A129	3
Ichthyol Gesellschaft	Pasta Cordes®	19A115	1
ichthyol gesellschaft	Pasta Cordes®	20A0187	1
Ichthyol Gesellscxhaft	Pasta Cordes®	17A173	1
Ichthyol Geselschaft Co...	Pasta Cordes®	14A142	1
Ichthyol Geselschaft Co...	Pasta Cordes®	19A115	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol gmbH/Phönix	Pasta Cordes®	20A0050	1
Ichthyol GmbH	Pasta Cordes®	16A098	1
Ichthyol gmbH	Pasta Cordes®	18A129	1
Ichthyol/ AHD	Pasta Cordes®	17A173	3
Ichthyol/ Gehe	Pasta Cordes®	19A115	1
Ichthyol/ Krieger	Pasta Cordes®	15A173	1
Ichthyol/ Krieger	Pasta Cordes®	17A021	1
Ichthyol/ Krieger	Pasta Cordes®	18A129	2
Ichthyol/ Noweda	Pasta Cordes®	14A025	1
Ichthyol/ Noweda	Pasta Cordes®	18A129	1
Ichthyol/ Phönix	Pasta Cordes®	14A142	1
Ichthyol/AHD	Pasta Cordes®	16A063	1
Ichthyol/AHD	Pasta Cordes®	17A173	1
Ichthyol/AHD	Pasta Cordes®	19A0101	1
Ichthyol/Allia	Pasta Cordes®	20A0050	1
Ichthyol/Alliance Healt...	Pasta Cordes®	17A058	1
Ichthyol/Alliance	Pasta Cordes®	16A063	2
Ichthyol/Alliance	Pasta Cordes®	19A115	5
Ichthyol/E&J	Pasta Cordes®	17A021	1
Ichthyol/Ebert	Pasta Cordes®	13A098	1
Ichthyol/Fiebig 30.04....	Pasta Cordes®	17A173	1
Ichthyol/Fiebig	Pasta Cordes®	13A056	1
Ichthyol/Fiebig	Pasta Cordes®	14A124	2
Ichthyol/Fiebig	Pasta Cordes®	14A142	2
Ichthyol/Fiebig	Pasta Cordes®	16A098	1
Ichthyol/Fiebig	Pasta Cordes®	17A021	2
Ichthyol/Fiebig	Pasta Cordes®	17A173	2
Ichthyol/Fiebig	Pasta Cordes®	18A129	2
Ichthyol/Fiebig	Pasta Cordes®	19A0101	3
Ichthyol/Fiebig	Pasta Cordes®	19A115	1
ichthyol/Fiebig	Pasta Cordes®	20A0187	1
Ichthyol/Gehe	Pasta Cordes®	11A206	1
Ichthyol/Gehe	Pasta Cordes®	12A043	2
ichthyol/Gehe	Pasta Cordes®	12A182	2
Ichthyol/Gehe	Pasta Cordes®	13A098	1
ichthyol/Gehe	Pasta Cordes®	13A146	1
Ichthyol/Gehe	Pasta Cordes®	14A025	1
Ichthyol/Gehe	Pasta Cordes®	14A124	1
Ichthyol/Gehe	Pasta Cordes®	14A199	14
Ichthyol/Gehe	Pasta Cordes®	16A064	21
Ichthyol/Gehe	Pasta Cordes®	17A021	2
Ichthyol/Gehe	Pasta Cordes®	17A058	1
Ichthyol/Gehe	Pasta Cordes®	17A173	1
Ichthyol/Gehe	Pasta Cordes®	18A129	2
Ichthyol/Gehe	Pasta Cordes®	19A0101	1
Ichthyol/Gehe	Pasta Cordes®	20A0050	1
ICHTHYOL/Gehe	Pasta Cordes®	20A0050	1
ichthyol/Gehe	Pasta Cordes®	20A0187	3
Ichthyol/Krieger	Pasta Cordes®	17A172	1
Ichthyol/Krieger	Pasta Cordes®	19A0101	1
Ichthyol/Krieger	Pasta Cordes®	19A115	1
Ichthyol/Krieger	Pasta Cordes®	20A0050	2
Ichthyol/Noedea	Pasta Cordes®	17A021	1
Ichthyol/Now	Pasta Cordes®	17A021	1
Ichthyol/Now	Pasta Cordes®	18A129	1
Ichthyol/Noweda	Pasta Cordes®	13A098	3
Ichthyol/Noweda	Pasta Cordes®	14A025	1
Ichthyol/Noweda	Pasta Cordes®	15A173	1
Ichthyol/Noweda	Pasta Cordes®	16A098	1
ICHTHYOL/Noweda	Pasta Cordes®	16A098	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol/Noweda	Pasta Cordes®	17A021	5
Ichthyol/Noweda	Pasta Cordes®	17A058	1
Ichthyol/Noweda	Pasta Cordes®	17A172	1
Ichthyol/Noweda	Pasta Cordes®	17A173	4
ichthyol/Noweda	Pasta Cordes®	18A129	1
Ichthyol/Noweda	Pasta Cordes®	18A129	3
Ichthyol/Noweda	Pasta Cordes®	18A181	4
Ichthyol/Noweda	Pasta Cordes®	19A0101	1
Ichthyol/Noweda	Pasta Cordes®	19A115	2
Ichthyol/Noweda	Pasta Cordes®	20A0047	2
Ichthyol/Noweda	Pasta Cordes®	20A0050	2
ICHTHYOL/Noweda	Pasta Cordes®	20A0050	1
Ichthyol/OG	Pasta Cordes®	15A173	1
Ichthyol/P	Pasta Cordes®	17A058	1
Ichthyol/Phoenix	Pasta Cordes®	12A182	1
Ichthyol/Phoenix	Pasta Cordes®	13A056	3
Ichthyol/Phoenix	Pasta Cordes®	14A025	1
Ichthyol/Phoenix	Pasta Cordes®	14A124	1
Ichthyol/Phoenix	Pasta Cordes®	15A121	5
Ichthyol/Phoenix	Pasta Cordes®	16A063	4
Ichthyol/Phoenix	Pasta Cordes®	16A064	3
Ichthyol/Phoenix	Pasta Cordes®	16A098	3
ichthyol/phoenix	Pasta Cordes®	17A021	1
Ichthyol/Phoenix	Pasta Cordes®	17A021	2
ichthyol/phoenix	Pasta Cordes®	17A058	1
Ichthyol/phoenix	Pasta Cordes®	17A058	1
Ichthyol/Phoenix	Pasta Cordes®	17A058	4
Ichthyol/Phoenix	Pasta Cordes®	17A173	1
Ichthyol/Phoenix	Pasta Cordes®	18A129	3
ichthyol/phoenix	Pasta Cordes®	19A0101	1
Ichthyol/Phoenix	Pasta Cordes®	19A0101	2
Ichthyol/Phoenix	Pasta Cordes®	20A0050	1
Ichthyol/Phoenix	Pasta Cordes®	20A0187	1
Ichthyol/Phoenix	Pasta Cordes®	3A172	1
Ichthyol/Phönix WE:2804...	Pasta Cordes®	15A121	1
Ichthyol/Phönix	Pasta Cordes®	14A025	1
Ichthyol/Phönix	Pasta Cordes®	14A124	1
Ichthyol/Phönix	Pasta Cordes®	14A142	10
Ichthyol/Phönix	Pasta Cordes®	16A063	1
Ichthyol/Phönix	Pasta Cordes®	17A173	7
Ichthyol/Phönix	Pasta Cordes®	19A0101	5
IchThyol/Phönix	Pasta Cordes®	19A0101	1
Ichthyol/Phönix	Pasta Cordes®	19A115	2
Ichthyol/Phönix	Pasta Cordes®	20A0187	1
Ichthyol/Sanacorp	Pasta Cordes®	12A138	1
Ichthyol/Sanacorp	Pasta Cordes®	12A182	1
Ichthyol/Sanacorp	Pasta Cordes®	14A142	1
Ichthyol/Sanacorp	Pasta Cordes®	15A121	1
Ichthyol/Sanacorp	Pasta Cordes®	15A173	3
Ichthyol/Sanacorp	Pasta Cordes®	16A098	1
Ichthyol/Sanacorp	Pasta Cordes®	17A058	1
Ichthyol/Sanacorp	Pasta Cordes®	17A173	1
Ichthyol/Sanacorp	Pasta Cordes®	19A115	1
Ichthyol/Virchow	Pasta Cordes®	17A173	1
ICHTHYOL	Pasta Cordes®	10A187	1
Ichthyol	Pasta Cordes®	12A008	1
Ichthyol	Pasta Cordes®	12a182	1
Ichthyol	Pasta Cordes®	13A056	1
Ichthyol	Pasta Cordes®	13A098	2
Ichthyol	Pasta Cordes®	14A025	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol	Pasta Cordes®	14A124	6
Ichthyol	Pasta Cordes®	14A12A	1
Ichthyol	Pasta Cordes®	14A142	1
Ichthyol	Pasta Cordes®	14A199	1
Ichthyol	Pasta Cordes®	15A121	5
ICHTHYOL	Pasta Cordes®	15A121	1
Ichthyol	Pasta Cordes®	15A173	3
ichthyol	Pasta Cordes®	15A1735338	1
Ichthyol	Pasta Cordes®	16A063	4
Ichthyol	Pasta Cordes®	16A064	1
ICHTHYOL	Pasta Cordes®	16A064	1
Ichthyol	Pasta Cordes®	16A098	1
Ichthyol	Pasta Cordes®	17A021	5
ichthyol	Pasta Cordes®	17A0215503	1
Ichthyol	Pasta Cordes®	17A172	1
Ichthyol	Pasta Cordes®	17A173	10
Ichthyol	Pasta Cordes®	18A129	8
Ichthyol	Pasta Cordes®	18A181	1
Ichthyol	Pasta Cordes®	19A0101	3
ichthyol	Pasta Cordes®	19A115	1
Ichthyol	Pasta Cordes®	19A115	6
Ichthyol	Pasta Cordes®	20A0050	1
Ichthyol	Pasta Cordes®	20A0187	1
ICHTHYOL_GESELLSCHAFT	Pasta Cordes®	20A0050	1
Ichthyol-Alliance	Pasta Cordes®	17A058	1
ICHTHYOL-G./Noweda	Pasta Cordes®	19A115	1
Ichthyol-Ges./Noweda	Pasta Cordes®	18A129	1
Ichthyol-Ges./Noweda	Pasta Cordes®	19A0101	1
Ichthyol-Ges./Noweda	Pasta Cordes®	20A0050	1
Ichthyol-Ges./Phönix	Pasta Cordes®	17A173	1
Ichthyol-Ges./Phönix	Pasta Cordes®	19A0101	1
Ichthyol-Ges./Sanac.	Pasta Cordes®	16A063	1
Ichthyol-Ges./Sanac.	Pasta Cordes®	17A173	2
Ichthyol-Gesellschaf	Pasta Cordes®	19A0101	1
ICHTHYOL-GESELLSCHAFFT	Pasta Cordes®	15A121	1
ICHTHYOL-GESELLSCHAFT ...	Pasta Cordes®	21A0206	1
Ichthyol-Gesellschaft /...	Pasta Cordes®	17A173	1
Ichthyol-Gesellschaft /...	Pasta Cordes®	17A173	1
ICHTHYOL-Gesellschaft /...	Pasta Cordes®	17A173	1
IchthyolGesellschaft Co...	Pasta Cordes®	19A0101	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	14A124	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	20A0187	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	13A098	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	13A146	3
Ichthyol-Gesellschaft C...	Pasta Cordes®	14A025	2
Ichthyol-Gesellschaft C...	Pasta Cordes®	14a124	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	14A124	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	14A199	4
Ichthyol-Gesellschaft C...	Pasta Cordes®	15A173	2
Ichthyol-Gesellschaft C...	Pasta Cordes®	16A064	2
Ichthyol-Gesellschaft C...	Pasta Cordes®	17A021	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	20A0050	2
Ichthyol-Gesellschaft C...	Pasta Cordes®	18A129	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	20A0050	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	17A173	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	18A129	2
Ichthyol-Gesellschaft C...	Pasta Cordes®	19A0101	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	19A115	1
Ichthyol-Gesellschaft C...	Pasta Cordes®	20A0187	2
Ichthyolgesellschaft/ K...	Pasta Cordes®	19A115	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
ICHTHYOL-GESELLSCHAFT/F...	Pasta Cordes®	19A115	2
ICHTHYOL-GESELLSCHAFT/P...	Pasta Cordes®	17A173	2
ICHTHYOL-GESELLSCHAFT/P...	Pasta Cordes®	19A115	8
ICHTHYOL-GESELLSCHAFT/P...	Pasta Cordes®	17A173	1
ICHTHYOL-Gesellschaft/P...	Pasta Cordes®	18A129	2
Ichthyol-Gesellschaft/P...	Pasta Cordes®	19A115	2
ICHTHYOL-Gesellschaft/P...	Pasta Cordes®	20A0050	1
Ichthyol-Gesellschaft/s...	Pasta Cordes®	16A063	5
Ichthyol-Gesellschaft/S...	Pasta Cordes®	16A098	1
Ichthyol-Gesellschaft/S...	Pasta Cordes®	17A021	2
Ichthyol-Gesellschaft	Pasta Cordes®	130819B	1
Ichthyol-Gesellschaft	Pasta Cordes®	13A056	1
Ichthyol-Gesellschaft	Pasta Cordes®	14A025	1
Ichthyol-Gesellschaft	Pasta Cordes®	14A124	1
Ichthyol-Gesellschaft	Pasta Cordes®	15A121	1
Ichthyol-Gesellschaft	Pasta Cordes®	15A173	1
Ichthyol-Gesellschaft	Pasta Cordes®	160822PC	2
Ichthyol-Gesellschaft	Pasta Cordes®	16A063	1
Ichthyol-Gesellschaft	Pasta Cordes®	170102PC/15A173	1
Ichthyol-Gesellschaft	Pasta Cordes®	17A021	2
Ichthyol-Gesellschaft	Pasta Cordes®	17A058	1
Ichthyol-Gesellschaft	Pasta Cordes®	17A173	2
Ichthyol-Gesellschaft	Pasta Cordes®	18A129	7
ICHTHYOL-GESELLSCHAFT	Pasta Cordes®	19A115	2
Ichthyol-Gesellschaft	Pasta Cordes®	19A129	1
ICHTHYOL-GESELLSCHAFT	Pasta Cordes®	21A0206	1
Ichthyol-Geselschaft/AHD	Pasta Cordes®	17A058	1
Ichthyol-Gesllschaft/Ph...	Pasta Cordes®	17A173	1
Ichtyhol Gesellschaft	Pasta Cordes®	14A142	1
Ichtyhol Gesellschaft	Pasta Cordes®	16A063	1
Ichtyhol/AHD	Pasta Cordes®	15A173	1
Ichtyhol/Phoenix	Pasta Cordes®	19A115	2
ICHTYOL GESELLSCHAFT Co...	Pasta Cordes®	15A121	1
Ichtyol- Gesellschaft C...	Pasta Cordes®	17A021	1
Ichtyol Gesellschaft/ N...	Pasta Cordes®	17A173	4
Ichtyol Gesellschaft/ N...	Pasta Cordes®	19A115	1
Ichtyol Noweda	Pasta Cordes®	19A0101	1
Ichtyol/Gehe	Pasta Cordes®	17A173	2
Ichtyol/Gehe	Pasta Cordes®	19A115	1
Ichtyol/Noweda	Pasta Cordes®	16A063	1
Ichtyol/Noweda	Pasta Cordes®	19A0101	1
Ichtyol/Phoenix	Pasta Cordes®	15A173	1
Ichtyol/Phoenix	Pasta Cordes®	17A021	4
Ichtyol/Phoenix	Pasta Cordes®	19A115	2
Ichtyol/Phönix	Pasta Cordes®	18A129	1
Ichtyol/Sanacorp	Pasta Cordes®	17A021	3
Ichtyol/Sanacorp	Pasta Cordes®	18A129	1
Ichtyol	Pasta Cordes®	15A121	1
ichtyol-gesellschaft co...	Pasta Cordes®	17A021	3
Ichtyol-Gesellschaft	Pasta Cordes®	14A124	1
Ichtyol-Gesellschaft	Pasta Cordes®	14A142	1
Ichtyol-Gesellschaft	Pasta Cordes®	16A063	1
Ichtyol-Gesellschaft	Pasta Cordes®	17A021	2
Ichtyol-Gesellschaft	Pasta Cordes®	17A172	1
Ichtyol-Gesellschaft	Pasta Cordes®	17A173	5
jchthyol / Ahd	Pasta Cordes®	17A0215656	1
Noeda/Ichthyol	Pasta Cordes®	20A0050	1
Noweda Taucha	Pasta Cordes®	19A115	1
Noweda/Ichthyol	Pasta Cordes®	17A021	2
Noweda/Ichtyol	Pasta Cordes®	15A173	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda/Ichtyol	Pasta Cordes®	17A058	1
Noweda/Ichtyol	Pasta Cordes®	20A0050	1
Noweda	Pasta Cordes®	13A056	1
Noweda	Pasta Cordes®	17A021	1
Noweda	Pasta Cordes®	17A173	2
Noweda	Pasta Cordes®	18A129	1
Noweda	Pasta Cordes®	19A115	2
Noweda-Ichthyol	Pasta Cordes®	15A121	1
Ph/Cordes	Pasta Cordes®	16A129	1
Ph/Ichthyol	Pasta Cordes®	17A021	1
phoenix/ichthyol	Pasta Cordes®	19A115	1
Phoenix	Pasta Cordes®	12A043	1
Phoenix	Pasta Cordes®	3386	1
phönix/ Ichthyol	Pasta Cordes®	1SA129	1
Phönix/Ichthyol	Pasta Cordes®	15A121	2
Phönix/Ichthyol	Pasta Cordes®	15A173	1
Phönix/Ichthyol	Pasta Cordes®	16A098	1
Phönix/Ichthyol	Pasta Cordes®	17A021	2
Phönix/Ichthyol	Pasta Cordes®	17A058	2
Phönix/Ichthyol	Pasta Cordes®	17A173	1
Phönix/Ichthyol	Pasta Cordes®	1817129	1
Phönix	Pasta Cordes®	12A182	1
Phönix	Pasta Cordes®	17A021	1
Phönix	Pasta Cordes®	17A173	1
Phönix	Pasta Cordes®	3146	1
Römerapo.	Pasta Cordes®	14A124	4
Sanacorp / Ichthyolgese...	Pasta Cordes®	14A124	1
Sanacorp/ Ichthyol	Pasta Cordes®	9A1151	1
Sanacorp	Pasta Cordes®	16A063	1
Sanacorp	Pasta Cordes®	19A0101	1
WE 28.11.16 Cordes/Phoe...	Pasta Cordes®	15A173	1

- 296 825 spectra from 1324 *Apo-Ident* customers from a total of 52 935 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Pasta Cordes*® can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Pasta Cordes*® and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	300	0	68 199
Type B	0	160	0	111 129
Type C	0	620	13	296 449

The substance/substance group *Pasta Cordes*® can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.0000 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6835 %)	97.9463 % (> 97.4724 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Pasta Cordes*® in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Guaiazulene 25%, water-soluble	26.08	–
Macrogol 8 stereate type I	38.95	–
Shea butter, refined	41.71	–
Permethrin 25% solution	42.06	–
Softisan® 649	42.57	–
Paraffin, yellow	49.75	–
Hydrophilic ointment DAB	51.26	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Pasta Cordes*® is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30633	31084	4.48	34.22
31084	31084	0.00	34.79
31673	31084	6.86	35.76
33285	31084	4.87	34.44
34484	31084	4.84	36.23
35104	31084	10.95	38.91
35105	31084	8.43	38.56

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Permethrin 25% solution**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31177-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Permethrin 25% solution

Special notes

When selecting the *Permethrin 25% solution* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Permethrin 25% solution	7	2	91

Second-stage model

For differentiation of the substance/substance group *Permethrin 25% solution* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Permethrin 25% solution*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Infectopharm	Permethrin 25% s...	S031301.1	31177	40	1405128
Infectopharm	Permethrin 25% s...	S061401.1	31563	60	1508108
Infectopharm	Permethrin 25% s...	S021601.1	32262	40	20160310
Infectopharm	Permethrin 25% s...	S021601.1	32263	40	20160310
Infectopharm	Permethrin 25% s...	S071602.1	33246	40	20160728
Infectopharm	Permethrin 25% s...	S071602.1	33247	40	20160728
Infectopharm	Permethrin 25% s...	S071602.1	33301	40	20160728
Infectopharm	Permethrin 25% s...	S071602.1	33302	40	20160728
Infectopharm	Permethrin 25% s...	S071602.1	33328	40	20160728
Infectopharm	Permethrin 25% s...	S021801.1	34120	40	20180301
Infectopharm	Permethrin 25% s...	S021801.1	34121	40	20180301
Infectopharm	Permethrin 25% s...	S041901.1	34692	40	20190426
Infectopharm	Permethrin 25% s...	S041901.1	34693	40	20190426
Infectopharm	Permethrin 25% s...	S092101.1	36393	40	20211124

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 580 spectra of 14 reference samples from the substance/substance group *Permethrin 25% solution*. These samples are listed above in the *calibration samples* section. The reference samples come from 7 different batches.

- 67 919 spectra from a total of 1406 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 200 spectra of 5 reference samples from the substance/substance group *Permethrin 25% solution*.

- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Infectopharm	Permethrin 25% solution	S041701.2	33940	40
Infectopharm	Permethrin 25% solution	S122001.1	35454	40
Infectopharm	Permethrin 25% solution	S041701.2	33941	40
Infectopharm	Permethrin 25% solution	S122001.1	35455	40
Infectopharm	Permethrin 25% solution	S092101.1	36392	40

- 111 113 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 703 spectra from 226 *Apo-Ident* customers from 111 batches from the substance/substance group *Permethrin 25% solution*.

- Among them are spectra of independent samples from 49 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Permethrin 25% solution		1
AHD / Infectopharm	Permethrin 25% solution		1
AHD / Infectopharm	Permethrin 25% solution	S0216011	1
Anzag (Hersteller: Infe...	Permethrin 25% solution		1
Anzag	Permethrin 25% solution		1
apomix	Permethrin 25% solution		2
biomo / Noweda	Permethrin 25% solution	160202	1
biomo / Noweda	Permethrin 25% solution	171201	1
Biomo /Noweda	Permethrin 25% solution	170504	1
Biomo /Noweda	Permethrin 25% solution	171201	3
Biomo /Noweda	Permethrin 25% solution	190602	1
biomo pharma GmbH	Permethrin 25% solution	160202	1
Biomo Pharma GmbH	Permethrin 25% solution	160202	1
Biomo Pharma GmbH	Permethrin 25% solution	170503	1
Biomo Pharma/ Noweda	Permethrin 25% solution	200404	1
Biomo pharma/Gehe	Permethrin 25% solution	190602	6
biomo pharma/Phönix	Permethrin 25% solution	170504	1
biomo pharma	Permethrin 25% solution	171201	1
biomo pharma	Permethrin 25% solution	1906002	1
Biomo/AHD	Permethrin 25% solution	171201	2
Biomo/Fiebig	Permethrin 25% solution	190602	1
Biomo/Fiebig	Permethrin 25% solution	200404	1
Biomo/Geibo	Permethrin 25% solution	160202	1
Biomo/Noweda	Permethrin 25% solution	150901	1
Biomo/Noweda	Permethrin 25% solution	160202	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Biomo/Phönix	Permethrin 25% solution	171201	1
Biomo	Permethrin 25% solution	170503	2
Biomo	Permethrin 25% solution	170504	1
biomo	Permethrin 25% solution	171201	1
Biomo	Permethrin 25% solution	190602	2
Biomo	Permethrin 25% solution	190603	1
Biomo	Permethrin 25% solution	200404	1
Bombastus	Permethrin 25% solution		3
Caelo	Permethrin 25% solution		18
Caelo	Permethrin 25% solution	12091811	1
Caelo	Permethrin 25% solution	3279	1
Caelo	Permethrin 25% solution	S0216011	1
Caelo	Permethrin 25% solution	S071802	1
Caesar & Loretz GmbH	Permethrin 25% solution		1
Dermapharm	Permethrin 25% solution		2
Euro OTC	Permethrin 25% solution		1
Fagron	Permethrin 25% solution		12
Gehe Infectopharma	Permethrin 25% solution		1
Gehe/Infectopharm	Permethrin 25% solution		1
gehe	Permethrin 25% solution		1
Gehe	Permethrin 25% solution		8
GEHE	Permethrin 25% solution		3
Ichthyol/Phönix	Permethrin 25% solution		2
Infec. Ph./Alli. HC	Permethrin 25% solution		1
InfecoPharm/Anzag	Permethrin 25% solution		8
Infect Pharm	Permethrin 25% solution		2
Infecto Pharm / Noweda	Permethrin 25% solution		10
Infecto Pharm / Phönix	Permethrin 25% solution	S072018	1
infecto pharm Fiebig	Permethrin 25% solution		1
Infecto Pharm	Permethrin 25% solution		3
infecto pharm	Permethrin 25% solution	s121402	1
Infecto Pharma/ Noweda	Permethrin 25% solution		1
infecto Pharma	Permethrin 25% solution		4
Infecto/Ebert	Permethrin 25% solution		1
Infecto/Phönix	Permethrin 25% solution		1
infecto	Permethrin 25% solution		3
InfectomPharm	Permethrin 25% solution		1
Infectopahrm/Phoenix	Permethrin 25% solution		2
Infectoph./	Permethrin 25% solution		1
Infectoph./Gehe	Permethrin 25% solution	S0313011	1
Infectoph./Sanac.	Permethrin 25% solution	170504	1
infectopharm ADH	Permethrin 25% solution		1
Infectopharm / 20	Permethrin 25% solution		1
Infectopharm / Alliance...	Permethrin 25% solution		1
InfectoPharm / Anzag	Permethrin 25% solution		1
Infectopharm / Gehe	Permethrin 25% solution		3
InfectoPharm / Gehe	Permethrin 25% solution		27
Infectopharm / Jenne	Permethrin 25% solution		2
Infectopharm / Kehr	Permethrin 25% solution		2
Infectopharm / Noweda	Permethrin 25% solution		4
InfectoPharm / Phönix	Permethrin 25% solution		2
Infectopharm / Sanacorb	Permethrin 25% solution		1
infectopharm / Sanacorp	Permethrin 25% solution		1
InfectoPharm / Sanacorp	Permethrin 25% solution		4
Infectopharm AM / Allia...	Permethrin 25% solution		2
Infectopharm Arzneimittel	Permethrin 25% solution		6
Infectopharm Arzneimittel	Permethrin 25% solution	S0216011	1
Infectopharm Heppenheim	Permethrin 25% solution		1
Infectopharm Sanacorp	Permethrin 25% solution		3
InfectoPharm, Heppenheim	Permethrin 25% solution		6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Infectopharm, von Humbo...	Permethrin 25% solution		3
infectopharm„Kehr/ 19....	Permethrin 25% solution		1
InfectoPharm/ AHD/ 12.0...	Permethrin 25% solution		1
InfectoPharm/ AHD/ 19.1...	Permethrin 25% solution		6
InfectoPharm/ Alliance ...	Permethrin 25% solution		1
Infectopharm/ Alliance	Permethrin 25% solution		2
InfectoPharm/ Anzag	Permethrin 25% solution		3
InfectoPharm/ G	Permethrin 25% solution		1
Infectopharm/ Gehe	Permethrin 25% solution		2
Infectopharm/ Gotha	Permethrin 25% solution		1
Infectopharm/ Now	Permethrin 25% solution		1
Infectopharm/ Noweda	Permethrin 25% solution		14
InfectoPharm/ Phoenix/ ...	Permethrin 25% solution		1
InfectoPharm/ Phoenix	Permethrin 25% solution		1
Infectopharm/ Phönix	Permethrin 25% solution		2
InfectoPharm/ Phönix	Permethrin 25% solution		4
Infectopharm/ Sanacorp	Permethrin 25% solution		2
Infectopharm/	Permethrin 25% solution		1
INFECTOPHARM/1	Permethrin 25% solution		2
Infectopharm/AHD	Permethrin 25% solution		10
InfectoPharm/AHD	Permethrin 25% solution		6
Infectopharm/Alliance	Permethrin 25% solution		3
InfectoPharm/Alliance	Permethrin 25% solution		1
Infectopharm/Allianz	Permethrin 25% solution		10
Infectopharm/Anzag	Permethrin 25% solution		4
InfectoPharm/Anzag	Permethrin 25% solution		3
Infectopharm/APEG	Permethrin 25% solution		1
Infectopharm/Ebert	Permethrin 25% solution		4
InfectoPharm/Ebert	Permethrin 25% solution		1
Infectopharm/Fiebig	Permethrin 25% solution		25
INFECTOPHARM/GEHE 20.06...	Permethrin 25% solution	`s071602-1`	2
INFECTOPHARM/GEHE 22.09...	Permethrin 25% solution		1
Infectopharm/gehe/28,20	Permethrin 25% solution		1
Infectopharm/Gehe	Permethrin 25% solution		14
InfectoPharm/gehe	Permethrin 25% solution		2
InfectoPharm/Gehe	Permethrin 25% solution		16
Infectopharm/Gehe	Permethrin 25% solution	`Infectopharm`	1
Infectopharm/Gehe	Permethrin 25% solution	`S0313011`	1
infectopharm/Jenne	Permethrin 25% solution		1
Infectopharm/Jenne	Permethrin 25% solution		4
Infectopharm/Kehr 10.07...	Permethrin 25% solution		1
Infectopharm/Kehr	Permethrin 25% solution		1
InfectoPharm/Kehr	Permethrin 25% solution		1
InfectoPharm/Kehr	Permethrin 25% solution	`S0417012`	4
InfectoPharm/Krieger	Permethrin 25% solution		1
INFECTOPHARM/NOWEDA 11....	Permethrin 25% solution		1
Infectopharm/noweda	Permethrin 25% solution		1
Infectopharm/Noweda	Permethrin 25% solution		26
InfectoPharm/Noweda	Permethrin 25% solution		1
InfectoPharm/Ohönix	Permethrin 25% solution		1
Infectopharm/Phoenix	Permethrin 25% solution		28
InfectoPharm/Phoenix	Permethrin 25% solution		2
Infectopharm/Phönix (19...	Permethrin 25% solution		1
infectopharm/phönix	Permethrin 25% solution		1
infectopharm/Phönix	Permethrin 25% solution		2
Infectopharm/Phönix	Permethrin 25% solution		30
InfectoPharm/Phönix	Permethrin 25% solution		7
Infectopharm/Phönix	Permethrin 25% solution	`S0313o11`	1
Infectopharm/Sana	Permethrin 25% solution		3
Infectopharm/Sanacor	Permethrin 25% solution		1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Infectopharm/Sanacorp	Permethrin 25% solution		10
InfectoPharm/Sanacorp	Permethrin 25% solution		1
INFECTOPHARM/Sanacorp	Permethrin 25% solution		1
infectopharm	Permethrin 25% solution		7
Infectopharm	Permethrin 25% solution		85
InfectoPharm	Permethrin 25% solution		27
INFECTOPHARM	Permethrin 25% solution		3
InfectoPharm	Permethrin 25% solution	1072015A	1
InfectoPharm	Permethrin 25% solution	11061302	1
InfectoPharm	Permethrin 25% solution	11091403	1
InfectoPharm	Permethrin 25% solution	14041401	1
InfectoPharm	Permethrin 25% solution	17121403	1
InfectoPharm	Permethrin 25% solution	20081401	1
InfectoPharm	Permethrin 25% solution	2091402	1
InfectoPharm	Permethrin 25% solution	21121202	1
InfectoPharm	Permethrin 25% solution	23021717	1
infectopharm	Permethrin 25% solution	23071414	1
InfectoPharm	Permethrin 25% solution	23111205	1
InfectoPharm	Permethrin 25% solution	25021307	1
InfectoPharm	Permethrin 25% solution	2510210212011	1
InfectoPharm	Permethrin 25% solution	25111401	1
InfectoPharm	Permethrin 25% solution	28011504	1
InfectoPharm	Permethrin 25% solution	28041708	1
InfectoPharm	Permethrin 25% solution	31071402	1
InfectoPharm	Permethrin 25% solution	4071506	1
InfectoPharm	Permethrin 25% solution	5011501	1
InfectoPharm	Permethrin 25% solution	6011407	1
InfectoPharm	Permethrin 25% solution	8011424	1
InfectoPharm	Permethrin 25% solution	9101406	1
InfectoPharm	Permethrin 25% solution	S021601	1
InfectoPharm	Permethrin 25% solution	S0216011	1
Infectopharm	Permethrin 25% solution	S0218011	1
Infectopharm	Permethrin 25% solution	S0313011	1
Infectopharm	Permethrin 25% solution	S0614011	1
Infectopharm	Permethrin 25% solution	S081202	1
Infectopharm	Permethrin 25% solution	S1214021	1
Infectopharm	Permethrin 25% solution	S1220011	1
InfectoPharma/Phönix	Permethrin 25% solution		1
Infectopharm-Gehe	Permethrin 25% solution		1
Infetopharm/Noweda	Permethrin 25% solution		1
Infvectopharm/Fiebig	Permethrin 25% solution		2
Jenne / Infectopharm	Permethrin 25% solution		2
Jenne	Permethrin 25% solution		1
JENNE	Permethrin 25% solution		1
Kehr /Infecto Pharm	Permethrin 25% solution		2
Krieger	Permethrin 25% solution		2
Löwen City-Apotheke Bar...	Permethrin 25% solution		1
Noweda/ Infectopharm	Permethrin 25% solution		1
Noweda/Infecto Pharma	Permethrin 25% solution		1
Noweda/Infectopharm	Permethrin 25% solution		1
Noweda/InfectoPharm	Permethrin 25% solution		1
Noweda	Permethrin 25% solution		1
Phoenix/InfectoPharm	Permethrin 25% solution		5
Phoenix	Permethrin 25% solution		4
Phoenix	Permethrin 25% solution	170504	1
Phoenix	Permethrin 25% solution	So4701	1
Phönix / Infectopharm	Permethrin 25% solution		1
Phönix /Infectopharm	Permethrin 25% solution		8
Phönix/Infectopharm	Permethrin 25% solution		3
Phönix	Permethrin 25% solution		1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp / Infectopharm	Permethrin 25% solution		1
Sanacorp	Permethrin 25% solution		4
sanacorp	Permethrin 25% solution	171201	1
SANACORP	Permethrin 25% solution	171201	1
Sanacorp	Permethrin 25% solution	S0216011	2

- 296 755 spectra from 1324 *Apo-Ident* customers from a total of 52 881 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Permethrin 25% solution* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Permethrin 25% solution* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	570	10	67 919
Type B	0	200	0	111 113
Type C	0	703	0	296 755

The substance/substance group *Permethrin 25% solution* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	98.2759 % (> 97.7586 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 97.0000 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 99.1465 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Permethrin 25% solution* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Metronidazole 25% in white petrolatum	53.90	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Permethrin 25% solution* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31177	31177	0.00	87.53
31563	31563	0.00	76.21
32262	31563	6.24	99.75
32263	31563	3.95	93.74
33246	31563	16.78	103.75
33247	31177	8.48	89.36
33301	31177	19.02	87.33
33302	31177	16.85	92.26
33328	31563	9.51	101.36
34120	31177	20.13	95.01
34121	31177	14.15	98.47
34692	31563	4.39	91.17
34693	31177	17.81	92.30
36393	31563	18.57	103.91

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Petroleum ether DAB**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30899-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Petroleum ether DAB; Benzinum DAB

Special notes

When selecting the *Petroleum ether DAB* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Petroleum ether DAB	5	3	421

Second-stage model

For differentiation of the substance/substance group *Petroleum ether DAB* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Petroleum ether DAB*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Petroleum ether ...	12279604	30899	60	1503677
Caelo	Petroleum ether ...	13141304	31283	40	1412255
Caelo	Petroleum ether ...	21000499001	35820	50	20210211
Otto Fischar	Petroleum ether ...	6323042	31253	40	1505436
Otto Fischar	Petroleum ether ...	6321081	35855	50	20210805

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 240 spectra of 5 reference samples from the substance/substance group *Petroleum ether DAB*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 259 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Petroleum ether DAB*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Petroleum ether DAB	171715	33329	40
Hedinger	Petroleum ether DAB	028175B	32955	40
Hedinger	Petroleum ether DAB	028186B	35260	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 2214 spectra from 641 *Apo-Ident* customers from 430 batches from the substance/substance group *Petroleum ether DAB*.

- Among them are spectra of independent samples from 418 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Petroleum ether DAB		1
A. Hedinger / Noweda	Petroleum ether DAB	281728	1
A.H.Hedinger vdL	Petroleum ether DAB	28172B	1
A.Hedinger / Kehr	Petroleum ether DAB	281708	1
Aallianc. Healthc. /Fis...	Petroleum ether DAB	6327105	1
ACM	Petroleum ether DAB	KNC0833J15	1
AEP/ Fischar	Petroleum ether DAB	6325105	1
AEP/Fischar	Petroleum ether DAB	6326092	1
AEP/Otto Fischar	Petroleum ether DAB	6320074	1
AHC/Fischar	Petroleum ether DAB	6328064	1
AHD/Fischar	Petroleum ether DAB	6329091	1
AHD/Hedinger	Petroleum ether DAB	28181B	1
AHD	Petroleum ether DAB	28176B	1
AHD	Petroleum ether DAB	28178B	1
ALH/Hedinger	Petroleum ether DAB	28177B	1
Alliance Healthcare/Fis...	Petroleum ether DAB	6324025	1
Alliance Healthcare/Ott...	Petroleum ether DAB	6328122	1
Alliance Healthcare	Petroleum ether DAB	28180B	1
Alliance Healthcare	Petroleum ether DAB	28181B	1
Alliance Healthcare	Petroleum ether DAB	28183B	1
Alliance/Hedinger	Petroleum ether DAB	281808	1
Alliance	Petroleum ether DAB	6326027	1
Alliance	Petroleum ether DAB	6328016	1
AllianceHealthcare	Petroleum ether DAB	28172b	1
Anzag / Fischar	Petroleum ether DAB	6328015	1
Anzag / Fischar	Petroleum ether DAB	6328112	1
Anzag / Fischer	Petroleum ether DAB	6320032	1
Anzag / Fischer	Petroleum ether DAB	6320075	1
Anzag / Fischer	Petroleum ether DAB	6320105	1
Anzag / Fischer	Petroleum ether DAB	6329091	1
anzag 15.11.12	Petroleum ether DAB	28167B	1
Anzag 16.10.14	Petroleum ether DAB	28171B	1
Anzag/Fischar	Petroleum ether DAB	6323017	1
Anzag/Fischar	Petroleum ether DAB	6324064	1
Anzag/Hedinger	Petroleum ether DAB	28167B	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag/Hedinger	Petroleum ether DAB	28172B	1
Anzag	Petroleum ether DAB	28188B	1
anzag	Petroleum ether DAB	6324063	1
Anzag	Petroleum ether DAB	6324092	1
Anzag	Petroleum ether DAB	6329023	1
apomix	Petroleum ether DAB	6324082	1
Apoth. Dr. P. Hünerbei	Petroleum ether DAB	28176B	1
Aug. Hedinger gmbH	Petroleum ether DAB	28184B	1
AUG.HEDINGER GMBH	Petroleum ether DAB	28180B	1
Aug.Hedinger/Noweda	Petroleum ether DAB	28184B	1
Aug.Hedinger/Phoenix	Petroleum ether DAB	281738	2
Aug.Hedinger	Petroleum ether DAB	28179B	1
Aug.Hedinger	Petroleum ether DAB	28180B	1
August Hedinger	Petroleum ether DAB	28178B	2
August Hedinger	Petroleum ether DAB	28179B	1
August Hedinger	Petroleum ether DAB	281818	1
Bären Apotheke	Petroleum ether DAB	6327018	1
Bären Apotheke	Petroleum ether DAB	6327019	1
Barthel	Petroleum ether DAB	28171B	2
Bionorica/Krieger	Petroleum ether DAB	6329023	1
Bombastus	Petroleum ether DAB	28177B	1
Bombastus	Petroleum ether DAB	6326063	1
Caelo	Petroleum ether DAB	1110516	1
Caelo	Petroleum ether DAB	11357104	1
Caelo	Petroleum ether DAB	13141302	1
Caelo	Petroleum ether DAB	16111002	2
Caelo	Petroleum ether DAB	16111005	1
Caelo	Petroleum ether DAB	16111007	2
Caelo	Petroleum ether DAB	16111008	1
Caelo	Petroleum ether DAB	1611106	1
Caelo	Petroleum ether DAB	171715002	1
Caelo	Petroleum ether DAB	171715004	1
Caelo	Petroleum ether DAB	17171505	1
Caelo	Petroleum ether DAB	17171506	1
Caelo	Petroleum ether DAB	28165B	3
Caelo	Petroleum ether DAB	281668	3
Caelo	Petroleum ether DAB	28167B	4
Caelo	Petroleum ether DAB	28168B	4
Caelo	Petroleum ether DAB	281698	1
Caelo	Petroleum ether DAB	28169B	6
Caelo	Petroleum ether DAB	2816B	1
Caelo	Petroleum ether DAB	28170B	1
Caelo	Petroleum ether DAB	28171B	4
Caelo	Petroleum ether DAB	281728	1
Caelo	Petroleum ether DAB	28172B	4
Caelo	Petroleum ether DAB	28173B	5
Caelo	Petroleum ether DAB	281748	1
Caelo	Petroleum ether DAB	28174B	5
Caelo	Petroleum ether DAB	28175B	10
Caelo	Petroleum ether DAB	28176B	4
Caelo	Petroleum ether DAB	281778	1
Caelo	Petroleum ether DAB	28177b	2
Caelo	Petroleum ether DAB	28177B	3
Caelo	Petroleum ether DAB	28178B	6
Caelo	Petroleum ether DAB	28179B	3
Caelo	Petroleum ether DAB	28180B	3
Caelo	Petroleum ether DAB	28183B	1
Caelo	Petroleum ether DAB	28184B	2
Caelo	Petroleum ether DAB	4031404	1
Caelo	Petroleum ether DAB	5013J-01170	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Petroleum ether DAB	6322097	1
Caelo	Petroleum ether DAB	6323033	2
Caelo	Petroleum ether DAB	6323095	1
Caelo	Petroleum ether DAB	6324018	1
Caelo	Petroleum ether DAB	6324025	1
Caelo	Petroleum ether DAB	6324044	1
Caelo	Petroleum ether DAB	6324082	2
Caelo	Petroleum ether DAB	6324113	1
Caelo	Petroleum ether DAB	6325021	1
Caelo	Petroleum ether DAB	6325055	2
Caelo	Petroleum ether DAB	6325109	1
Caelo	Petroleum ether DAB	6325111	2
Caelo	Petroleum ether DAB	6325119	1
Caelo	Petroleum ether DAB	6326014	1
Caelo	Petroleum ether DAB	6326015	1
Caelo	Petroleum ether DAB	6326027	1
Caelo	Petroleum ether DAB	6326031	3
Caelo	Petroleum ether DAB	6326055	1
Caelo	Petroleum ether DAB	6326061	1
Caelo	Petroleum ether DAB	6326063	1
Caelo	Petroleum ether DAB	6326104	1
Caelo	Petroleum ether DAB	6327013	1
Caelo	Petroleum ether DAB	6327016	1
Caelo	Petroleum ether DAB	6327054	2
Caelo	Petroleum ether DAB	6327072	3
Caelo	Petroleum ether DAB	6327114	2
Caelo	Petroleum ether DAB	6327115	1
Caelo	Petroleum ether DAB	632711A	1
Caelo	Petroleum ether DAB	6328075	1
Caelo	Petroleum ether DAB	6328103	1
Caelo	Petroleum ether DAB	6328104	1
Caelo	Petroleum ether DAB	6328111	1
Caelo	Petroleum ether DAB	6328112	1
Caelo	Petroleum ether DAB	6329053	3
Caelo	Petroleum ether DAB	64/AKD53	1
Caesar & Loretz GmbH / ...	Petroleum ether DAB	6320043	1
Caesar & Loretz GmbH	Petroleum ether DAB	171715002	1
Caesar & Loretz GmbH	Petroleum ether DAB	17171507	1
Caesar & Loretz GmbH	Petroleum ether DAB	18174317	1
Caesar & Loretz GmbH	Petroleum ether DAB	28179B	1
Calo/AHD	Petroleum ether DAB	28175B	1
DAB 1999	Petroleum ether DAB	28176B	1
Delta	Petroleum ether DAB	28176B	2
Dr. Seeger/ Phönix	Petroleum ether DAB	28169B	1
Ebert/Fischar	Petroleum ether DAB	6323093	1
Euro OTC	Petroleum ether DAB	23o4123	1
Euro OTC	Petroleum ether DAB	28174B	1
Euro OTC	Petroleum ether DAB	6325087	1
Euro OTC	Petroleum ether DAB	6326104	1
Euro OTC	Petroleum ether DAB	6327019	3
Euro OTC	Petroleum ether DAB	6328104	1
FA.Hedinger	Petroleum ether DAB	28174B	3
Fagron	Petroleum ether DAB	28178B	2
Fagron	Petroleum ether DAB	6324114	1
Fagron	Petroleum ether DAB	6326024	2
Fiebig/Fischer	Petroleum ether DAB	6328014	1
Fiebig/Hedinger	Petroleum ether DAB	28177B	2
Fiebig/Hedinger	Petroleum ether DAB	28180B	1
Fiebig/Hedinger	Petroleum ether DAB	281818	1
Fiebig/Hedinger	Petroleum ether DAB	28186B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Petroleum ether DAB	28175B	1
Fiebig	Petroleum ether DAB	28177B	1
Fiebig	Petroleum ether DAB	28178B	2
Fiebig	Petroleum ether DAB	28179B	1
Fiebig	Petroleum ether DAB	28180B	1
Fiebig	Petroleum ether DAB	28184B	1
Fiebig	Petroleum ether DAB	6324123	1
Fiebig	Petroleum ether DAB	6327017	2
Fiebig	Petroleum ether DAB	6327116	1
Fiebig	Petroleum ether DAB	6328105	1
Fiebig-Hedinger	Petroleum ether DAB	28176B	1
Fischar / Alliance Heal...	Petroleum ether DAB	6326033	1
Fischar / Anzag	Petroleum ether DAB	6322095	1
Fischar / Anzag	Petroleum ether DAB	6328016	1
Fischar / Anzag	Petroleum ether DAB	6328051	1
Fischar / GEHE	Petroleum ether DAB	6320014	1
Fischar / GEHE	Petroleum ether DAB	6320043	1
Fischar / Gehe	Petroleum ether DAB	6325055	1
Fischar / Gehe	Petroleum ether DAB	6326014	1
Fischar / Gehe	Petroleum ether DAB	6326061	1
Fischar / Gehe	Petroleum ether DAB	6326075	1
Fischar / Gehe	Petroleum ether DAB	6327021	1
Fischar / Gehe	Petroleum ether DAB	6327033	1
Fischar / GEHE	Petroleum ether DAB	6327074	1
Fischar / Gehe	Petroleum ether DAB	6327114	1
fischar / Gehe	Petroleum ether DAB	6327115	1
Fischar / GEHE	Petroleum ether DAB	6327115	1
fischar / Gehe	Petroleum ether DAB	6328035	1
Fischar / GEHE	Petroleum ether DAB	6328123	1
Fischar / Jenne	Petroleum ether DAB	6320073/5120	1
Fischar / Krieger	Petroleum ether DAB	6325105	1
Fischar / Noweda	Petroleum ether DAB	6322112	1
Fischar / Noweda	Petroleum ether DAB	6323069	1
Fischar / Noweda	Petroleum ether DAB	6326105	1
Fischar / Noweda	Petroleum ether DAB	6329094	1
Fischar / Phönix	Petroleum ether DAB	3412I-01170	1
Fischar / Phönix	Petroleum ether DAB	3413J-01170	1
Fischar / Phönix	Petroleum ether DAB	6320032	1
Fischar / Phönix	Petroleum ether DAB	6329034	1
Fischar / Sanacorp	Petroleum ether DAB	6323062	1
Fischar /VDL	Petroleum ether DAB	6328032	1
Fischar /VDL	Petroleum ether DAB	6329101	1
Fischar AHD 05.09.17 Ek...	Petroleum ether DAB	6327023	1
Fischar Anzag	Petroleum ether DAB	6327102	1
Fischar GmbH & Co.KG ...	Petroleum ether DAB	6320043	1
Fischar GmbH/Krieger	Petroleum ether DAB	6327024	1
Fischar GmbH/Krieger	Petroleum ether DAB	6327101	1
Fischar GmbH/Krieger	Petroleum ether DAB	6328014	1
Fischar GmbH	Petroleum ether DAB	6321011	1
Fischar GmbH	Petroleum ether DAB	6323066	1
Fischar GmbH	Petroleum ether DAB	6325044	1
Fischar GmbH	Petroleum ether DAB	6325119	1
Fischar GmbH	Petroleum ether DAB	6328035	2
Fischar GmbH	Petroleum ether DAB	6328122	1
Fischar GmbH	Petroleum ether DAB	6328124	1
Fischar GmbH	Petroleum ether DAB	6329014	1
Fischar Otto / Fischar ...	Petroleum ether DAB	6325117	1
Fischar Otto / Fischar ...	Petroleum ether DAB	6326052	1
Fischar Otto / Fischar ...	Petroleum ether DAB	6326113	1
Fischar Otto / Fischar ...	Petroleum ether DAB	6327051	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar Phönix	Petroleum ether DAB	6323094	1
Fischar Phönix	Petroleum ether DAB	6323112	1
Fischar Phönix	Petroleum ether DAB	6324018	1
Fischar Phönix	Petroleum ether DAB	6328014	1
Fischar Phönix	Petroleum ether DAB	6328064	1
FISCHAR,OTTO GMBH	Petroleum ether DAB	6320114	1
Fischar/ AHD	Petroleum ether DAB	6327093	1
Fischar/ Alliance	Petroleum ether DAB	632801A	1
Fischar/ Alliance	Petroleum ether DAB	6328123	1
Fischar/ Alliance	Petroleum ether DAB	6329091	1
Fischar/ anzag	Petroleum ether DAB	6329014	1
Fischar/ anzag	Petroleum ether DAB	6329124	1
Fischar/ Fiebig	Petroleum ether DAB	6321082	1
Fischar/ Krieger	Petroleum ether DAB	6327034	1
Fischar/ Krieger	Petroleum ether DAB	6327091	1
Fischar/ Krieger	Petroleum ether DAB	6328014	1
Fischar/ Krieger	Petroleum ether DAB	6328091	1
Fischar/ Krieger	Petroleum ether DAB	6328111	1
Fischar/ Krieger	Petroleum ether DAB	6329034	2
Fischar/ Krieger	Petroleum ether DAB	6329102	1
Fischar/ Now	Petroleum ether DAB	6323064	1
Fischar/ Now	Petroleum ether DAB	6328123	1
Fischar/ Now	Petroleum ether DAB	6329033	1
Fischar/ Now	Petroleum ether DAB	6329051	1
Fischar/ Noweda	Petroleum ether DAB	6320074	1
Fischar/ Noweda	Petroleum ether DAB	6321041	1
Fischar/ Noweda	Petroleum ether DAB	6321113	1
Fischar/ Noweda	Petroleum ether DAB	6324104	1
fischar/ Noweda	Petroleum ether DAB	6326101	1
Fischar/ Noweda	Petroleum ether DAB	632704	1
Fischar/ Noweda	Petroleum ether DAB	6328091	1
Fischar/ Noweda	Petroleum ether DAB	6328112	1
Fischar/ Noweda	Petroleum ether DAB	6329073	1
Fischar/ Phoenix	Petroleum ether DAB	6328122	1
Fischar/ Phoenix	Petroleum ether DAB	6329093	1
Fischar/ Phönix	Petroleum ether DAB	630024	1
Fischar/ Phönix	Petroleum ether DAB	6325106	1
Fischar/ Phönix	Petroleum ether DAB	6326093	1
Fischar/ Sanacorp	Petroleum ether DAB	6325108	1
Fischar/ Sanacorp	Petroleum ether DAB	6327102	2
Fischar/AEP	Petroleum ether DAB	6320074	1
Fischar/AEP	Petroleum ether DAB	6329051	1
Fischar/AHD	Petroleum ether DAB	6326085	1
Fischar/AHD	Petroleum ether DAB	6329013	1
Fischar/Allia	Petroleum ether DAB	6328051	1
Fischar/Allia	Petroleum ether DAB	6329103	1
Fischar/Alliance H.	Petroleum ether DAB	6325104	1
Fischar/Alliance Health...	Petroleum ether DAB	6326027	2
Fischar/Alliance Health...	Petroleum ether DAB	6328064	1
Fischar/Alliance Heathc...	Petroleum ether DAB	6324064	1
Fischar/Alliance	Petroleum ether DAB	6320103	1
Fischar/Alliance	Petroleum ether DAB	6328016	1
Fischar/Alliance	Petroleum ether DAB	6329091	1
Fischar/Anzag	Petroleum ether DAB	6323016	1
Fischar/Anzag	Petroleum ether DAB	6323024	1
Fischar/Anzag	Petroleum ether DAB	6323062	1
Fischar/Anzag	Petroleum ether DAB	6323095	1
Fischar/Anzag	Petroleum ether DAB	6323099	1
Fischar/Anzag	Petroleum ether DAB	6324063	1
Fischar/Anzag	Petroleum ether DAB	6325053	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar/Anzag	Petroleum ether DAB	6326073	1
Fischar/Anzag	Petroleum ether DAB	6328104	3
Fischar/Anzag	Petroleum ether DAB	6329034	1
Fischar/E&J	Petroleum ether DAB	6328064	1
Fischar/Fiebig	Petroleum ether DAB	6325065	1
Fischar/Fiebig	Petroleum ether DAB	6325109	2
Fischar/Gehe	Petroleum ether DAB	3623111	1
Fischar/Gehe	Petroleum ether DAB	6320032	1
Fischar/GEHE	Petroleum ether DAB	6320043	1
Fischar/Gehe	Petroleum ether DAB	6320044	1
Fischar/Gehe	Petroleum ether DAB	6320064	1
Fischar/Gehe	Petroleum ether DAB	6320065	1
Fischar/GEHE	Petroleum ether DAB	63209034	1
Fischar/Gehe	Petroleum ether DAB	6321095	1
Fischar/Gehe	Petroleum ether DAB	6322053	1
Fischar/Gehe	Petroleum ether DAB	6322061	1
Fischar/Gehe	Petroleum ether DAB	6322117	1
Fischar/Gehe	Petroleum ether DAB	6323093	1
Fischar/Gehe	Petroleum ether DAB	632309A	1
Fischar/Gehe	Petroleum ether DAB	6323113	1
Fischar/Gehe	Petroleum ether DAB	6324062	1
Fischar/Gehe	Petroleum ether DAB	6325089	1
Fischar/Gehe	Petroleum ether DAB	6326092	1
fischar/gehe	Petroleum ether DAB	6327053	1
Fischar/Gehe	Petroleum ether DAB	632711A	2
Fischar/Gehe	Petroleum ether DAB	632801A	1
Fischar/Gehe	Petroleum ether DAB	6328123	1
Fischar/Gehe	Petroleum ether DAB	6329014	1
Fischar/Gehe	Petroleum ether DAB	6329103	1
Fischar/Gerx	Petroleum ether DAB	6327053	1
Fischar/Jenne	Petroleum ether DAB	6320042	1
Fischar/Jenne	Petroleum ether DAB	6327114	1
Fischar/Kehr	Petroleum ether DAB	6320033	1
Fischar/Kehr	Petroleum ether DAB	6328122	1
Fischar/Novatis	Petroleum ether DAB	6320052	1
Fischar/Novatis	Petroleum ether DAB	6321043	1
Fischar/Novatis	Petroleum ether DAB	6328064	1
Fischar/Noweda	Petroleum ether DAB	6320065	1
Fischar/Noweda	Petroleum ether DAB	6321031	1
Fischar/Noweda	Petroleum ether DAB	6323017	1
Fischar/Noweda	Petroleum ether DAB	6323065	1
Fischar/Noweda	Petroleum ether DAB	6323069	1
Fischar/Noweda	Petroleum ether DAB	6326011	1
Fischar/Noweda	Petroleum ether DAB	6326012	1
Fischar/Noweda	Petroleum ether DAB	6326049	1
Fischar/Noweda	Petroleum ether DAB	6326081	1
Fischar/Noweda	Petroleum ether DAB	6326095	1
Fischar/Noweda	Petroleum ether DAB	6326105	1
Fischar/Noweda	Petroleum ether DAB	6326112	1
Fischar/Noweda	Petroleum ether DAB	6327072	1
Fischar/Noweda	Petroleum ether DAB	6327115	1
Fischar/Noweda	Petroleum ether DAB	632711A	1
Fischar/Noweda	Petroleum ether DAB	6328014	1
Fischar/Noweda	Petroleum ether DAB	6328035	1
Fischar/Noweda	Petroleum ether DAB	6328051	1
Fischar/Noweda	Petroleum ether DAB	6328073	1
Fischar/Noweda	Petroleum ether DAB	6328093	1
Fischar/Noweda	Petroleum ether DAB	6328111	1
Fischar/Noweda	Petroleum ether DAB	6328123	1
Fischar/Noweda	Petroleum ether DAB	6329015	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar/Noweda	Petroleum ether DAB	6329023	1
Fischar/Noweda	Petroleum ether DAB	6329073	2
Fischar/Noweda	Petroleum ether DAB	6329123	1
Fischar/Nowenda	Petroleum ether DAB	6323112	1
Fischar/Pala	Petroleum ether DAB	6324101	2
Fischar/Phoen	Petroleum ether DAB	6328045	1
Fischar/Phoen	Petroleum ether DAB	6328074	1
Fischar/Phoen	Petroleum ether DAB	6328113	1
Fischar/Phoenix	Petroleum ether DAB	6320053	1
Fischar/Phoenix	Petroleum ether DAB	6320054	1
Fischar/Phoenix	Petroleum ether DAB	6320105	1
Fischar/Phoenix	Petroleum ether DAB	6321011	1
fischar/phoenix	Petroleum ether DAB	6323064	1
Fischar/Phoenix	Petroleum ether DAB	6323069	1
Fischar/Phoenix	Petroleum ether DAB	6324018	1
Fischar/Phoenix	Petroleum ether DAB	6324103	1
Fischar/Phoenix	Petroleum ether DAB	6325051	1
Fischar/Phoenix	Petroleum ether DAB	6325108	1
Fischar/Phoenix	Petroleum ether DAB	6326047	1
Fischar/phoenix	Petroleum ether DAB	6326061	5
Fischar/Phoenix	Petroleum ether DAB	6326071	1
Fischar/Phoenix	Petroleum ether DAB	6326085	1
Fischar/phoenix	Petroleum ether DAB	6326095	1
Fischar/Phoenix	Petroleum ether DAB	6328044	1
Fischar/Phoenix	Petroleum ether DAB	6328051	1
Fischar/Phoenix	Petroleum ether DAB	6328074	1
Fischar/Phoenix	Petroleum ether DAB	6328075	1
Fischar/Phoenix	Petroleum ether DAB	6328105	1
Fischar/Phoenix	Petroleum ether DAB	6328112	1
Fischar/Phoenix	Petroleum ether DAB	6329015	1
Fischar/Phönix	Petroleum ether DAB	6320015	1
Fischar/Phönix	Petroleum ether DAB	6320032	1
Fischar/Phönix	Petroleum ether DAB	6320063	1
Fischar/Phönix	Petroleum ether DAB	6320074	1
Fischar/Phönix	Petroleum ether DAB	6320115	2
Fischar/Phönix	Petroleum ether DAB	6321041	2
Fischar/Phönix	Petroleum ether DAB	6323063	1
Fischar/Phönix	Petroleum ether DAB	6324105	1
Fischar/Phönix	Petroleum ether DAB	6324123	1
Fischar/Phönix	Petroleum ether DAB	6325081	3
Fischar/Phönix	Petroleum ether DAB	6325086	2
Fischar/Phönix	Petroleum ether DAB	6325105	1
Fischar/Phönix	Petroleum ether DAB	6326011	2
Fischar/Phönix	Petroleum ether DAB	6326083	1
Fischar/Phönix	Petroleum ether DAB	6326092	1
Fischar/Phönix	Petroleum ether DAB	6327024	1
Fischar/Phönix	Petroleum ether DAB	6327093	1
Fischar/Phönix	Petroleum ether DAB	6327102	2
Fischar/Phönix	Petroleum ether DAB	6328014	1
Fischar/Phönix	Petroleum ether DAB	6328063	1
Fischar/Phönix	Petroleum ether DAB	6328074	1
Fischar/Phönix	Petroleum ether DAB	6328104	2
Fischar/Phönix	Petroleum ether DAB	6328105	1
Fischar/Phönix	Petroleum ether DAB	6328112	1
Fischar/Phönix	Petroleum ether DAB	6328113	3
Fischar/Phönix	Petroleum ether DAB	6329023	2
Fischar/Phönix	Petroleum ether DAB	6329025	1
Fischar/Phönix	Petroleum ether DAB	6329031	4
Fischar/PX	Petroleum ether DAB	6328075	1
Fischar/PX	Petroleum ether DAB	6329123	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar/Sanacorp	Petroleum ether DAB	6321022	1
Fischar/Sanacorp	Petroleum ether DAB	6322116	1
Fischar/Sanacorp	Petroleum ether DAB	6324033	1
Fischar/Sanacorp	Petroleum ether DAB	6324065	1
Fischar/Sanacorp	Petroleum ether DAB	6324103	1
fischar/Sanacorp	Petroleum ether DAB	6325021	1
fischar/Sanacorp	Petroleum ether DAB	6326026	1
Fischar/Sanacorp	Petroleum ether DAB	6326047	1
Fischar/Sanacorp	Petroleum ether DAB	6326081	1
Fischar/Sanacorp	Petroleum ether DAB	6327013	1
Fischar/Sanacorp	Petroleum ether DAB	6327018	2
Fischar/Sanacorp	Petroleum ether DAB	6327072	1
Fischar/Sanacorp	Petroleum ether DAB	6327102	1
Fischar/Sanacorp	Petroleum ether DAB	6328013	1
Fischar/Sanacorp	Petroleum ether DAB	6328045	1
Fischar/Sanacorp	Petroleum ether DAB	6328051	1
Fischar/Sanacorp	Petroleum ether DAB	6328065	1
Fischar/Sanacorp	Petroleum ether DAB	6328104	1
Fischar/Sanacorp	Petroleum ether DAB	6329024	2
Fischar/Spangro	Petroleum ether DAB	6326026	1
Fischar/Spangro	Petroleum ether DAB	6326095	1
Fischar/Spangro	Petroleum ether DAB	6327012	1
Fischar/Spangro	Petroleum ether DAB	6327034	1
Fischar/Spangro	Petroleum ether DAB	632711A	1
Fischar/Spangro	Petroleum ether DAB	6329012	1
fischar/vdl	Petroleum ether DAB	6323097	1
Fischar	Petroleum ether DAB	24061501	1
fischar	Petroleum ether DAB	28181B	1
Fischar	Petroleum ether DAB	412062-2-P	1
Fischar	Petroleum ether DAB	55780	1
fischar	Petroleum ether DAB	616331022	1
Fischar	Petroleum ether DAB	6239123	1
Fischar	Petroleum ether DAB	6320011	1
Fischar	Petroleum ether DAB	6320012	2
Fischar	Petroleum ether DAB	6320014	1
Fischar	Petroleum ether DAB	6320032	1
Fischar	Petroleum ether DAB	6320041	2
Fischar	Petroleum ether DAB	6320054	3
Fischar	Petroleum ether DAB	6320115	1
Fischar	Petroleum ether DAB	6321032	2
Fischar	Petroleum ether DAB	6321111	1
Fischar	Petroleum ether DAB	632204	1
Fischar	Petroleum ether DAB	6322051	1
Fischar	Petroleum ether DAB	6322061	1
Fischar	Petroleum ether DAB	6322073	1
Fischar	Petroleum ether DAB	6322074	2
Fischar	Petroleum ether DAB	6322076	1
Fischar	Petroleum ether DAB	6322079	1
Fischar	Petroleum ether DAB	632207A	1
Fischar	Petroleum ether DAB	6322113	1
Fischar	Petroleum ether DAB	6322114	1
Fischar	Petroleum ether DAB	6322119	1
Fischar	Petroleum ether DAB	6323015	1
Fischar	Petroleum ether DAB	6323016	1
Fischar	Petroleum ether DAB	6323017	1
Fischar	Petroleum ether DAB	6323033	1
Fischar	Petroleum ether DAB	6323063	3
Fischar	Petroleum ether DAB	6323066	1
Fischar	Petroleum ether DAB	6323068	1
Fischar	Petroleum ether DAB	6323097	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar	Petroleum ether DAB	6323099	1
Fischar	Petroleum ether DAB	6323111	1
Fischar	Petroleum ether DAB	6324013	1
Fischar	Petroleum ether DAB	6324016	1
Fischar	Petroleum ether DAB	632401A	1
Fischar	Petroleum ether DAB	6324034	2
fischar	Petroleum ether DAB	6324035	1
Fischar	Petroleum ether DAB	6324041	3
Fischar	Petroleum ether DAB	6324055	1
Fischar	Petroleum ether DAB	6324064	1
fischar	Petroleum ether DAB	6324065	1
Fischar	Petroleum ether DAB	6324072	2
Fischar	Petroleum ether DAB	6324074	1
Fischar	Petroleum ether DAB	6324075	1
Fischar	Petroleum ether DAB	6324082	15
Fischar	Petroleum ether DAB	6324083	1
Fischar	Petroleum ether DAB	6324091	1
Fischar	Petroleum ether DAB	6324092	1
Fischar	Petroleum ether DAB	6324103	2
Fischar	Petroleum ether DAB	6324105	4
Fischar	Petroleum ether DAB	6324114	2
Fischar	Petroleum ether DAB	6324115	1
Fischar	Petroleum ether DAB	6324123	1
Fischar	Petroleum ether DAB	6325012	3
Fischar	Petroleum ether DAB	6325022	2
fischar	Petroleum ether DAB	6325023	1
Fischar	Petroleum ether DAB	6325023	3
fischar	Petroleum ether DAB	6325024	1
Fischar	Petroleum ether DAB	6325024	2
Fischar	Petroleum ether DAB	6325025	1
Fischar	Petroleum ether DAB	6325034	1
Fischar	Petroleum ether DAB	6325042	1
Fischar	Petroleum ether DAB	6325051	2
Fischar	Petroleum ether DAB	6325052	3
Fischar	Petroleum ether DAB	6325063	3
Fischar	Petroleum ether DAB	6325065	1
Fischar	Petroleum ether DAB	6325081	3
Fischar	Petroleum ether DAB	6325101	2
Fischar	Petroleum ether DAB	6325106	1
fischar	Petroleum ether DAB	6325109	1
Fischar	Petroleum ether DAB	6325109	2
Fischar	Petroleum ether DAB	6325119	1
Fischar	Petroleum ether DAB	6326011	4
Fischar	Petroleum ether DAB	6326012	1
fischar	Petroleum ether DAB	6326021	2
Fischar	Petroleum ether DAB	6326026	1
Fischar	Petroleum ether DAB	6326027	1
Fischar	Petroleum ether DAB	6326031	2
Fischar	Petroleum ether DAB	6326032	1
Fischar	Petroleum ether DAB	6326047	2
Fischar	Petroleum ether DAB	6326049	1
Fischar	Petroleum ether DAB	6326061	2
Fischar	Petroleum ether DAB	6326071	3
Fischar	Petroleum ether DAB	6326072	1
Fischar	Petroleum ether DAB	6326075	1
Fischar	Petroleum ether DAB	6326084	2
Fischar	Petroleum ether DAB	6326092	1
Fischar	Petroleum ether DAB	6326095	1
Fischar	Petroleum ether DAB	632701	1
Fischar	Petroleum ether DAB	6327013	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar	Petroleum ether DAB	6327017	3
Fischar	Petroleum ether DAB	6327019	2
Fischar	Petroleum ether DAB	6327024	1
Fischar	Petroleum ether DAB	6327034	3
Fischar	Petroleum ether DAB	6327053	1
Fischar	Petroleum ether DAB	6327054	2
fischar	Petroleum ether DAB	6327055	1
Fischar	Petroleum ether DAB	6327062	2
Fischar	Petroleum ether DAB	6327072	1
Fischar	Petroleum ether DAB	6327074	2
Fischar	Petroleum ether DAB	6327091	1
Fischar	Petroleum ether DAB	6327101	1
Fischar	Petroleum ether DAB	6327102	2
Fischar	Petroleum ether DAB	6327105	2
Fischar	Petroleum ether DAB	6327112	1
Fischar	Petroleum ether DAB	6327114	1
Fischar	Petroleum ether DAB	6327115	1
Fischar	Petroleum ether DAB	6328014	1
Fischar	Petroleum ether DAB	6328016	1
Fischar	Petroleum ether DAB	6328017	1
Fischar	Petroleum ether DAB	6328019	3
Fischar	Petroleum ether DAB	632801A	1
Fischar	Petroleum ether DAB	6328035	1
fischar	Petroleum ether DAB	6328041	1
Fischar	Petroleum ether DAB	6328072	2
Fischar	Petroleum ether DAB	6328095	4
Fischar	Petroleum ether DAB	6328105	1
Fischar	Petroleum ether DAB	6328112	2
Fischar	Petroleum ether DAB	6328113	1
Fischar	Petroleum ether DAB	6328122	2
Fischar	Petroleum ether DAB	6329012	5
Fischar	Petroleum ether DAB	6329014	2
Fischar	Petroleum ether DAB	6329015	2
Fischar	Petroleum ether DAB	6329033	2
Fischar	Petroleum ether DAB	6329035	1
Fischar	Petroleum ether DAB	6329045	6
Fischar	Petroleum ether DAB	6329051	4
Fischar	Petroleum ether DAB	6329053	2
Fischar	Petroleum ether DAB	6329074	2
Fischar	Petroleum ether DAB	6329075	1
Fischar	Petroleum ether DAB	6329095	1
fischar	Petroleum ether DAB	6329101	1
Fischar	Petroleum ether DAB	6329101	1
Fischar	Petroleum ether DAB	6329103	1
Fischar	Petroleum ether DAB	6329122	4
Fischar	Petroleum ether DAB	7031588	1
Fischar	Petroleum ether DAB	9658104	1
Fischbar	Petroleum ether DAB	6324103	1
Fischbar	Petroleum ether DAB	6326112	1
Fischer / Anzag	Petroleum ether DAB	6328035	1
FISCHER GMBH / GEHE	Petroleum ether DAB	6323094	1
FISCHER GMBH / GEHE	Petroleum ether DAB	6324091	1
FISCHER GMBH / GEHE	Petroleum ether DAB	6324104	1
Fischer GmbH/Phönix	Petroleum ether DAB	6328035	1
Fischer Saarbrücken/GEHE	Petroleum ether DAB	6322041	1
Fischer Saarbrücken/GEHE	Petroleum ether DAB	6323043	1
Fischer/AHD	Petroleum ether DAB	6327115	1
fischer/Alkun	Petroleum ether DAB	6327094	1
Fischer/Ebert&Jacobi	Petroleum ether DAB	6324022	1
Fischer/Fiebig	Petroleum ether DAB	6320064	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischer/Gehe	Petroleum ether DAB	6323111	1
Fischer/Gehe	Petroleum ether DAB	6324103	1
Fischer/Gehe	Petroleum ether DAB	6325024	1
Fischer/Gehe	Petroleum ether DAB	6325052	1
Fischer/Gehe	Petroleum ether DAB	6325053	1
Fischer/Gehe	Petroleum ether DAB	6326084	1
Fischer/Gehe	Petroleum ether DAB	6328122	1
Fischer/Noweda	Petroleum ether DAB	6320054	1
Fischer/Noweda	Petroleum ether DAB	6321001	1
Fischer/Noweda	Petroleum ether DAB	6321085	1
Fischer/Noweda	Petroleum ether DAB	6328013	1
Fischer/Noweda	Petroleum ether DAB	6328112	1
Fischer/Noweda	Petroleum ether DAB	6329072	1
Fischer/Phönix	Petroleum ether DAB	6325014	1
Fischer/Phönix	Petroleum ether DAB	6325034	3
Fischer/Phönix	Petroleum ether DAB	6326027	1
Fischer/Phönix	Petroleum ether DAB	6327018	1
Fischer/Phönix	Petroleum ether DAB	6327034	2
Fischer/Phönix	Petroleum ether DAB	6327061	1
Fischer/Phönix	Petroleum ether DAB	6327102	1
Fischer/Phönix	Petroleum ether DAB	6329063	1
Fischer/Sanacorp	Petroleum ether DAB	6323099	1
Fischer/Sanacorp	Petroleum ether DAB	6325105	1
Fischer/Sanacorp	Petroleum ether DAB	637013	1
Fischer	Petroleum ether DAB	6233033	1
Fischer	Petroleum ether DAB	6320024	1
fischer	Petroleum ether DAB	6320043	1
Fischer	Petroleum ether DAB	6320074	1
Fischer	Petroleum ether DAB	6321011	1
Fischer	Petroleum ether DAB	6321083	1
Fischer	Petroleum ether DAB	6323064	1
Fischer	Petroleum ether DAB	6323066	1
Fischer	Petroleum ether DAB	6324062	1
Fischer	Petroleum ether DAB	6324095	1
Fischer	Petroleum ether DAB	6324102	1
Fischer	Petroleum ether DAB	6324103	1
Fischer	Petroleum ether DAB	6325081	1
fischer	Petroleum ether DAB	6325087	1
Fischer	Petroleum ether DAB	6325105	1
Fischer	Petroleum ether DAB	6325107	1
Fischer	Petroleum ether DAB	6326092	1
Fischer	Petroleum ether DAB	6327024	1
Fischer	Petroleum ether DAB	6328074	1
Fischer	Petroleum ether DAB	6328093	1
Fischer	Petroleum ether DAB	6329053	1
fischer	Petroleum ether DAB	6329091	2
Fishar/Jenne	Petroleum ether DAB	6320024	1
fishar/Noweda	Petroleum ether DAB	6326113	1
fishar/noweda	Petroleum ether DAB	6328122	1
Fishar	Petroleum ether DAB	6328105	1
Frau Brinn-Holtz	Petroleum ether DAB	6325109	1
Gehe - Hedinger	Petroleum ether DAB	28171B	1
gehe / Fischer GmbH	Petroleum ether DAB	6320032	1
Gehe/ Hedinger	Petroleum ether DAB	28167B	1
GEHE/ Hedinger	Petroleum ether DAB	28180B	1
Gehe/Fischar	Petroleum ether DAB	13373701	1
Gehe/Fischar	Petroleum ether DAB	6327062	3
Gehe/Fischar	Petroleum ether DAB	6328075	1
Gehe/Hedinger	Petroleum ether DAB	28175B	1
Gehe/Hedinger	Petroleum ether DAB	28176B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe/Hedinger	Petroleum ether DAB	28177B	1
Gehe/Hedinger	Petroleum ether DAB	28181B	1
Gehe/Otto Fischer GmbH	Petroleum ether DAB	632711A	1
Gehe/Otto Fischer GmbH	Petroleum ether DAB	6329072	1
Gehe	Petroleum ether DAB	28166B	1
Gehe	Petroleum ether DAB	28170B	1
Gehe	Petroleum ether DAB	28172B	1
Gehe	Petroleum ether DAB	28173b	1
Gehe	Petroleum ether DAB	28175B	1
Gehe	Petroleum ether DAB	28176B	2
GEHE	Petroleum ether DAB	28176B	1
Gehe	Petroleum ether DAB	28177B	2
Gehe	Petroleum ether DAB	28178B	1
Gehe	Petroleum ether DAB	28179B	2
Gehe	Petroleum ether DAB	28181B	1
Gehe	Petroleum ether DAB	28184B	1
Gehe	Petroleum ether DAB	28185B	1
Gehe	Petroleum ether DAB	6322061	1
Gehe	Petroleum ether DAB	6322095	1
GEHE	Petroleum ether DAB	6322119	1
Gehe	Petroleum ether DAB	6325024	1
Gehe	Petroleum ether DAB	6325044	1
Gehe	Petroleum ether DAB	6325051	1
Gehe	Petroleum ether DAB	6325065	1
Gehe	Petroleum ether DAB	6325109	1
Gehe	Petroleum ether DAB	6326027	1
Gehe	Petroleum ether DAB	6326055	1
Gehe	Petroleum ether DAB	6326063	1
Gehe	Petroleum ether DAB	6326092	1
Gehe	Petroleum ether DAB	6326093	1
Gehe	Petroleum ether DAB	6327017	1
Gehe	Petroleum ether DAB	6327034	1
Gehe	Petroleum ether DAB	6327114	1
GEHE	Petroleum ether DAB	6328044	1
Gehe	Petroleum ether DAB	6328064	1
Gehe	Petroleum ether DAB	6328104	1
Gehe	Petroleum ether DAB	6328112	1
Gehe	Petroleum ether DAB	6329072	1
Gehe	Petroleum ether DAB	6329105	1
Gehe-Hedinger	Petroleum ether DAB	28167B	1
Gehe-Hedinger	Petroleum ether DAB	28172B	1
Geibo/Hedinger 06.05.2020	Petroleum ether DAB	28182B	1
H4dinger/AHD	Petroleum ether DAB	28188B	2
Haerdinger/Sanacorp	Petroleum ether DAB	281778	1
Hediger/Phönix	Petroleum ether DAB	28179B	1
Hediger/Phönix	Petroleum ether DAB	28186B	1
Hediner/Noweda	Petroleum ether DAB	28177B	2
Hedinger vdL	Petroleum ether DAB	28171B	2
Hedinger , Stuttgart	Petroleum ether DAB	28170B	1
HEDINGER / 20	Petroleum ether DAB	28168B	1
HEDINGER / 20	Petroleum ether DAB	28170B	1
HEDINGER / 30	Petroleum ether DAB	28172B	2
Hedinger / 41	Petroleum ether DAB	28182B	1
Hedinger / AHD 01.08.2017	Petroleum ether DAB	28176B	1
Hedinger / AHD 08.03.2017	Petroleum ether DAB	28175B	1
Hedinger / AHD 23.08.2018	Petroleum ether DAB	28177B	1
Hedinger / Alliance HC	Petroleum ether DAB	28171B	1
Hedinger / Alliance Hea...	Petroleum ether DAB	28174B	1
Hedinger / Alliance Hea...	Petroleum ether DAB	28175B	1
Hedinger / Alliance Hea...	Petroleum ether DAB	28179B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger / Alliance Hea...	Petroleum ether DAB	28186B	1
Hedinger / Anzag	Petroleum ether DAB	28163B	1
Hedinger / Anzag	Petroleum ether DAB	28168B	1
Hedinger / Anzag	Petroleum ether DAB	28176B	1
Hedinger / Anzag	Petroleum ether DAB	28177B	1
Hedinger / Anzag	Petroleum ether DAB	28178B	1
Hedinger / Anzag	Petroleum ether DAB	28181B	1
Hedinger / Gehe	Petroleum ether DAB	1301401	1
Hedinger / Gehe	Petroleum ether DAB	28167B	1
Hedinger / Gehe	Petroleum ether DAB	28169B	6
Hedinger / Gehe	Petroleum ether DAB	28170B	5
Hedinger / Gehe	Petroleum ether DAB	28171B	1
Hedinger / Gehe	Petroleum ether DAB	28174B	2
Hedinger / Gehe	Petroleum ether DAB	28176B	1
Hedinger / Gehe	Petroleum ether DAB	28177B	1
Hedinger / Gehe	Petroleum ether DAB	28178B	5
Hedinger / Gehe	Petroleum ether DAB	28181B	1
Hedinger / Gehe	Petroleum ether DAB	28187B	2
Hedinger / Gehe	Petroleum ether DAB	28188B	1
Hedinger / Max Jenne	Petroleum ether DAB	28188B	1
Hedinger / Noveda	Petroleum ether DAB	28176B	1
Hedinger / NOW	Petroleum ether DAB	28170B	1
Hedinger / NOW	Petroleum ether DAB	28184B	1
Hedinger / Noweda	Petroleum ether DAB	28169B	1
Hedinger / Noweda	Petroleum ether DAB	28172B	2
Hedinger / Noweda	Petroleum ether DAB	28174B	2
Hedinger / Noweda	Petroleum ether DAB	28175B	2
HEDINGER / NOWEDA	Petroleum ether DAB	28175B	1
Hedinger / Noweda	Petroleum ether DAB	28178B	1
Hedinger / Noweda	Petroleum ether DAB	28179B	1
Hedinger / Noweda	Petroleum ether DAB	28180B	1
Hedinger / Noweda	Petroleum ether DAB	28187B	1
Hedinger / Noweda	Petroleum ether DAB	2818B	1
Hedinger / Phoenix	Petroleum ether DAB	28180B	1
Hedinger / Phoenix	Petroleum ether DAB	3966/V02/17	1
Hedinger / Phönix	Petroleum ether DAB	28172B	1
Hedinger / Sanacorp	Petroleum ether DAB	28179B	1
Hedinger / Sanacorp	Petroleum ether DAB	28183B	1
Hedinger / Sanacorp	Petroleum ether DAB	28186B	1
hedinger /AHD	Petroleum ether DAB	28176B5449	1
Hedinger /Sanacorp	Petroleum ether DAB	28173B	1
Hedinger 1/Noweda	Petroleum ether DAB	28182B	1
Hedinger 1/Noweda	Petroleum ether DAB	28185B	1
Hedinger 1/Noweda	Petroleum ether DAB	28186B	1
Hedinger GmbH &Co KG	Petroleum ether DAB	28176B	2
Hedinger GmbH &Co KG	Petroleum ether DAB	28177B	1
Hedinger GmbH &Co KG	Petroleum ether DAB	28178B	1
Hedinger GmbH&Co. KG	Petroleum ether DAB	28182B	1
Hedinger GmbH&Co.KG	Petroleum ether DAB	28181B	1
Hedinger GmbH/ NOWEDA	Petroleum ether DAB	28174B	1
Hedinger GmbH/ NOWEDA	Petroleum ether DAB	28175B	1
Hedinger GmbH/ NOWEDA	Petroleum ether DAB	28179B	1
Hedinger GmbH	Petroleum ether DAB	281738	1
Hedinger GmbH	Petroleum ether DAB	28174B	1
Hedinger GmbH	Petroleum ether DAB	28175B	1
Hedinger Phönix	Petroleum ether DAB	28167B	1
Hedinger Phönix	Petroleum ether DAB	28168B	2
Hedinger Phönix	Petroleum ether DAB	28174B	1
Hedinger Sanacorp	Petroleum ether DAB	28179B	1
Hedinger Sanacorp	Petroleum ether DAB	28180B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger über Sanacorp	Petroleum ether DAB	28173B	1
Hedinger, Heiligenwiese...	Petroleum ether DAB		1
Hedinger, Heiligenwiese...	Petroleum ether DAB	28166B	2
Hedinger, Noweda	Petroleum ether DAB	28166B	2
Hedinger, Noweda	Petroleum ether DAB	28167B	3
Hedinger, Noweda	Petroleum ether DAB	28168B	2
Hedinger, Stuttgart / P...	Petroleum ether DAB	28183B	1
Hedinger/ Alliance Heal...	Petroleum ether DAB	28176B	1
Hedinger/ Anzag EK 6,48	Petroleum ether DAB	28180B	1
Hedinger/ Fiebig	Petroleum ether DAB	28028	1
Hedinger/ Gehe	Petroleum ether DAB	28168B	1
Hedinger/ Gehe	Petroleum ether DAB	28173B	3
Hedinger/ Gehe	Petroleum ether DAB	28174B	1
Hedinger/ Gehe	Petroleum ether DAB	281788	1
Hedinger/ Gehe	Petroleum ether DAB	28178B	2
Hedinger/ GEHE	Petroleum ether DAB	28178B	1
Hedinger/ Gehe	Petroleum ether DAB	28180B	2
Hedinger/ Gehe	Petroleum ether DAB	28183B	1
Hedinger/ Gehe	Petroleum ether DAB	28184B	1
Hedinger/ Jenne	Petroleum ether DAB	28171B	4
Hedinger/ Jenne	Petroleum ether DAB	28176B	2
Hedinger/ Kehr	Petroleum ether DAB	281808	1
Hedinger/ Kehr	Petroleum ether DAB	28181B	1
Hedinger/ Noweda	Petroleum ether DAB		1
Hedinger/ Noweda	Petroleum ether DAB	28171B	1
Hedinger/ Noweda	Petroleum ether DAB	28172B	1
Hedinger/ Noweda	Petroleum ether DAB	28176B	1
Hedinger/ NOWEDA	Petroleum ether DAB	28176B	3
Hedinger/ Noweda	Petroleum ether DAB	28177B	1
Hedinger/ Noweda	Petroleum ether DAB	281788	1
Hedinger/ Noweda	Petroleum ether DAB	28180B	1
Hedinger/ Noweda	Petroleum ether DAB	28182B	1
Hedinger/ Noweda	Petroleum ether DAB	28184B	2
Hedinger/ Phoenix WE...	Petroleum ether DAB	28172B	1
Hedinger/ Phoenix	Petroleum ether DAB	28179B	1
Hedinger/ Phoenix	Petroleum ether DAB	28184B	1
Hedinger/ Phönix	Petroleum ether DAB	(028)028	1
Hedinger/ Phönix	Petroleum ether DAB	28171B	1
Hedinger/ Phönix	Petroleum ether DAB	28178B	2
Hedinger/ Phönix	Petroleum ether DAB	28180B	1
Hedinger/ Sanacorp	Petroleum ether DAB	28173B	2
Hedinger/ Sanacorp	Petroleum ether DAB	28175B	2
Hedinger/ Sanacorp	Petroleum ether DAB	28178B	2
Hedinger/ Sanacorp	Petroleum ether DAB	28179B	1
Hedinger/ Sanacorp	Petroleum ether DAB	281818	1
Hedinger/	Petroleum ether DAB	28181B	1
Hedinger/AHD	Petroleum ether DAB	28169B	1
Hedinger/AHD	Petroleum ether DAB	28173B	1
Hedinger/AHD	Petroleum ether DAB	28174B	1
Hedinger/AHD	Petroleum ether DAB	28175B	1
Hedinger/AHD	Petroleum ether DAB	28177B	2
Hedinger/AHD	Petroleum ether DAB	28178B	3
Hedinger/AHD	Petroleum ether DAB	28179B	1
Hedinger/AHD	Petroleum ether DAB	28180B	2
Hedinger/AHD	Petroleum ether DAB	28181B	1
Hedinger/AHD	Petroleum ether DAB	28187B	3
Hedinger/AHD	Petroleum ether DAB	28188B	1
Hedinger/Allia	Petroleum ether DAB	28181b	1
Hedinger/Allia	Petroleum ether DAB	28184B	1
Hedinger/Allia	Petroleum ether DAB	28187B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Alliance Healt...	Petroleum ether DAB	28174B	1
Hedinger/Alliance Healt...	Petroleum ether DAB	28177B	4
Hedinger/Alliance	Petroleum ether DAB	28174B	1
Hedinger/Alliance	Petroleum ether DAB	28175B	1
Hedinger/Alliance	Petroleum ether DAB	28176B	3
Hedinger/Alliance	Petroleum ether DAB	28177B	1
Hedinger/Alliance	Petroleum ether DAB	28183B	1
Hedinger/AllianceHC	Petroleum ether DAB	28172B	1
Hedinger/AllianceHC	Petroleum ether DAB	28173B	1
Hedinger/Anzag 11.06.2012	Petroleum ether DAB	28166B	1
Hedinger/Anzag 20.11.2012	Petroleum ether DAB	28167B	2
Hedinger/Anzag	Petroleum ether DAB	28167B	2
hedinger/anzag	Petroleum ether DAB	28169B	1
Hedinger/Anzag	Petroleum ether DAB	28171B	2
Hedinger/Anzag	Petroleum ether DAB	28174B	1
Hedinger/Anzag	Petroleum ether DAB	28181B	1
Hedinger/Ebert	Petroleum ether DAB	28175B	1
Hedinger/Ebert	Petroleum ether DAB	28176B	2
Hedinger/Ebert	Petroleum ether DAB	28177B	1
Hedinger/Fiebig 28.03.2...	Petroleum ether DAB	28179B	1
Hedinger/Fiebig	Petroleum ether DAB	28178B	1
Hedinger/Fiebig	Petroleum ether DAB	281798	1
Hedinger/Fiebig	Petroleum ether DAB	281818	1
Hedinger/Fiebig	Petroleum ether DAB	6320074	1
hedinger/Gehe/6,74	Petroleum ether DAB	28180B	1
hedinger/Gehe/6,76	Petroleum ether DAB	28178B	1
Hedinger/Gehe	Petroleum ether DAB	1231234	1
Hedinger/GEHE	Petroleum ether DAB	1914M1170	1
Hedinger/Gehe	Petroleum ether DAB	28167B	2
Hedinger/Gehe	Petroleum ether DAB	28168B	2
Hedinger/Gehe	Petroleum ether DAB	28169B	3
Hedinger/Gehe	Petroleum ether DAB	28170B	2
hedinger/gehe	Petroleum ether DAB	28171B	1
Hedinger/Gehe	Petroleum ether DAB	28171B	6
Hedinger/GEHE	Petroleum ether DAB	28171B	1
Hedinger/Gehe	Petroleum ether DAB	28172b	1
Hedinger/Gehe	Petroleum ether DAB	28172B	10
Hedinger/Gehe	Petroleum ether DAB	281738	1
Hedinger/Gehe	Petroleum ether DAB	28173B	6
Hedinger/Gehe	Petroleum ether DAB	28174B	1
Hedinger/Gehe	Petroleum ether DAB	281758	1
Hedinger/Gehe	Petroleum ether DAB	28175B	4
Hedinger/Gehe	Petroleum ether DAB	28176B	3
hedinger/Gehe	Petroleum ether DAB	28177B	1
Hedinger/Gehe	Petroleum ether DAB	28177B	5
Hedinger/Gehe	Petroleum ether DAB	28178B	6
Hedinger/GEHE	Petroleum ether DAB	28178B	2
HEDINGER/Gehe	Petroleum ether DAB	28178B	1
Hedinger/Gehe	Petroleum ether DAB	28179B	2
Hedinger/Gehe	Petroleum ether DAB	28180B	3
Hedinger/GEHE	Petroleum ether DAB	28180B	1
Hedinger/Gehe	Petroleum ether DAB	281818	1
Hedinger/Gehe	Petroleum ether DAB	28181B	4
Hedinger/Gehe	Petroleum ether DAB	28182B	2
Hedinger/Gehe	Petroleum ether DAB	28183B	2
Hedinger/Gehe	Petroleum ether DAB	28184B	5
Hedinger/Gehe	Petroleum ether DAB	28186B	2
Hedinger/Gehe	Petroleum ether DAB	28187B	1
Hedinger/Geibo	Petroleum ether DAB	28175B	1
Hedinger/Geilenkirchen	Petroleum ether DAB	28176B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Holdermann	Petroleum ether DAB	28170B	1
Hedinger/Jenne 1.10.20 ...	Petroleum ether DAB	28184B	1
Hedinger/Jenne	Petroleum ether DAB	28170B	4
Hedinger/Jenne	Petroleum ether DAB	28177B	1
Hedinger/Jenne	Petroleum ether DAB	281818	1
Hedinger/Jenne	Petroleum ether DAB	281898	1
Hedinger/Kehr	Petroleum ether DAB	28176B	1
Hedinger/Kehr	Petroleum ether DAB	281788	2
Hedinger/Kehr	Petroleum ether DAB	28179B	1
Hedinger/Kehr	Petroleum ether DAB	28181B	1
Hedinger/N/08.05.13/PZN...	Petroleum ether DAB	28167B	1
Hedinger/Noweda	Petroleum ether DAB	21728	1
hedinger/noweda	Petroleum ether DAB	281698	1
hedinger/noweda	Petroleum ether DAB	28169B	1
Hedinger/Noweda	Petroleum ether DAB	28170B	2
Hedinger/Noweda	Petroleum ether DAB	28171B	2
Hedinger/Noweda	Petroleum ether DAB	28173B	3
Hedinger/Noweda	Petroleum ether DAB	28174B	5
Hedinger/Noweda	Petroleum ether DAB	28175B	2
hedinger/noweda	Petroleum ether DAB	28176B	1
Hedinger/noweda	Petroleum ether DAB	28176B	1
Hedinger/Noweda	Petroleum ether DAB	28176B	8
hedinger/Noweda	Petroleum ether DAB	28177B	1
Hedinger/Noweda	Petroleum ether DAB	28177B	3
Hedinger/Noweda	Petroleum ether DAB	28178B	3
HEDINGER/NOWEDA	Petroleum ether DAB	28178B	1
Hedinger/Noweda	Petroleum ether DAB	281798	1
Hedinger/Noweda	Petroleum ether DAB	28179B	2
HEDINGER/NOWEDA	Petroleum ether DAB	28179B	1
Hedinger/Noweda	Petroleum ether DAB	28180B	3
Hedinger/Noweda	Petroleum ether DAB	28181B	6
HEDINGER/NOWEDA	Petroleum ether DAB	28181B	1
Hedinger/Noweda	Petroleum ether DAB	28182B	1
Hedinger/Noweda	Petroleum ether DAB	28183B	1
Hedinger/Noweda	Petroleum ether DAB	28184B	2
HEDINGER/NOWEDA	Petroleum ether DAB	28184B	2
Hedinger/Noweda	Petroleum ether DAB	28185B	1
Hedinger/Noweda	Petroleum ether DAB	28186B	2
Hedinger/Noweda	Petroleum ether DAB	28187B	2
Hedinger/Noweda	Petroleum ether DAB	281888	1
Hedinger/Noweda	Petroleum ether DAB	28188B	2
HEDINGER/NOWEDA	Petroleum ether DAB	28188B	1
Hedinger/Otto	Petroleum ether DAB		1
Hedinger/Otto	Petroleum ether DAB	281678	1
Hedinger/Otto	Petroleum ether DAB	281698	1
Hedinger/Otto	Petroleum ether DAB	28180B	1
Hedinger/Phoenix	Petroleum ether DAB	28168B	1
Hedinger/Phoenix	Petroleum ether DAB	28172B	1
Hedinger/Phoenix	Petroleum ether DAB	28174B	1
Hedinger/Phoenix	Petroleum ether DAB	28175B	1
Hedinger/Phoenix	Petroleum ether DAB	28176B	2
Hedinger/Phoenix	Petroleum ether DAB	28177B	4
Hedinger/Phoenix	Petroleum ether DAB	28178B	1
Hedinger/Phoenix	Petroleum ether DAB	28179B	1
Hedinger/Phoenix	Petroleum ether DAB	281808	1
hedinger/Phoenix	Petroleum ether DAB	28180B	1
Hedinger/Phoenix	Petroleum ether DAB	28180B	1
Hedinger/Phoenix	Petroleum ether DAB	28183B	1
Hedinger/Phoenix	Petroleum ether DAB	28184B	1
Hedinger/Phoenix	Petroleum ether DAB	28188B	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Phönix	Petroleum ether DAB	(028)028	1
hedinger/phönix	Petroleum ether DAB	28167b	1
Hedinger/Phönix	Petroleum ether DAB	28168B	3
Hedinger/Phönix	Petroleum ether DAB	28169B	3
Hedinger/Phönix	Petroleum ether DAB	28171B	1
Hedinger/Phönix	Petroleum ether DAB	281728	1
Hedinger/Phönix	Petroleum ether DAB	28172B	1
Hedinger/Phönix	Petroleum ether DAB	28173B	1
Hedinger/Phönix	Petroleum ether DAB	28174B	7
HEDINGER/Phönix	Petroleum ether DAB	28174B	2
Hedinger/Phönix	Petroleum ether DAB	28175B	2
Hedinger/Phönix	Petroleum ether DAB	28176B	10
Hedinger/Phönix	Petroleum ether DAB	281778	2
Hedinger/Phönix	Petroleum ether DAB	28177B	5
Hedinger/Phönix	Petroleum ether DAB	281788	2
Hedinger/Phönix	Petroleum ether DAB	28178B	11
Hedinger/Phönix	Petroleum ether DAB	281798	1
Hedinger/Phönix	Petroleum ether DAB	28179B	1
Hedinger/Phönix	Petroleum ether DAB	28180B	3
Hedinger/Phönix	Petroleum ether DAB	281818	1
Hedinger/Phönix	Petroleum ether DAB	28181B	2
Hedinger/Phönix	Petroleum ether DAB	28184B	4
Hedinger/Phönix	Petroleum ether DAB	28185B	1
Hedinger/Phönix	Petroleum ether DAB	28188B	2
Hedinger/Phönix	Petroleum ether DAB	2818ob	1
Hedinger/Sanacorp 35,16EUR	Petroleum ether DAB	281888	1
Hedinger/Sanacorp	Petroleum ether DAB		1
Hedinger/Sanacorp	Petroleum ether DAB	28166B	1
Hedinger/Sanacorp	Petroleum ether DAB	28167B	2
Hedinger/Sanacorp	Petroleum ether DAB	28168B	2
Hedinger/Sanacorp	Petroleum ether DAB	281698	1
Hedinger/Sanacorp	Petroleum ether DAB	28169B	4
Hedinger/Sanacorp	Petroleum ether DAB	28170B	1
Hedinger/Sanacorp	Petroleum ether DAB	281728	1
Hedinger/Sanacorp	Petroleum ether DAB	28172b	1
Hedinger/Sanacorp	Petroleum ether DAB	28172B	6
Hedinger/Sanacorp	Petroleum ether DAB	28173b	1
Hedinger/Sanacorp	Petroleum ether DAB	28173B	2
Hedinger/Sanacorp	Petroleum ether DAB	281748	1
Hedinger/Sanacorp	Petroleum ether DAB	28174B	3
Hedinger/Sanacorp	Petroleum ether DAB	28175B	7
Hedinger/Sanacorp	Petroleum ether DAB	28176B	2
Hedinger/Sanacorp	Petroleum ether DAB	28177B	2
Hedinger/Sanacorp	Petroleum ether DAB	28178B	3
Hedinger/Sanacorp	Petroleum ether DAB	28179B	3
Hedinger/Sanacorp	Petroleum ether DAB	28180B	6
Hedinger/Sanacorp	Petroleum ether DAB	281818	1
Hedinger/Sanacorp	Petroleum ether DAB	28181B	2
Hedinger/Sanacorp	Petroleum ether DAB	28182B	1
Hedinger/Sanacorp	Petroleum ether DAB	28183B	1
Hedinger/Sanacorp	Petroleum ether DAB	28184B	2
Hedinger/Sanacorp	Petroleum ether DAB	28185B	2
Hedinger/Sanacorp	Petroleum ether DAB	28188B	1
Hedinger/Stumpf	Petroleum ether DAB	28167B	1
Hedinger/Stumpf	Petroleum ether DAB	28168B	1
Hedinger/V.d.L.	Petroleum ether DAB	28170B	1
Hedinger/V.d.L.	Petroleum ether DAB	28171B	1
Hedinger/XX	Petroleum ether DAB	28181B	1
Hedinger	Petroleum ether DAB		1
Hedinger	Petroleum ether DAB	(028)028	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Petroleum ether DAB	11051703	1
Hedinger	Petroleum ether DAB	12121401	1
Hedinger	Petroleum ether DAB	13081309	1
Hedinger	Petroleum ether DAB	14051804	1
Hedinger	Petroleum ether DAB	15091402	1
Hedinger	Petroleum ether DAB	170323184	1
Hedinger	Petroleum ether DAB	18111701	1
Hedinger	Petroleum ether DAB	204311170	1
Hedinger	Petroleum ether DAB	2071202	1
Hedinger	Petroleum ether DAB	2411Q-01170	1
Hedinger	Petroleum ether DAB	25021302	1
Hedinger	Petroleum ether DAB	28011506	1
Hedinger	Petroleum ether DAB	281478B	1
Hedinger	Petroleum ether DAB	2815B	1
Hedinger	Petroleum ether DAB	281658	1
Hedinger	Petroleum ether DAB	28165B	2
Hedinger	Petroleum ether DAB	28166B	9
HEDINGER	Petroleum ether DAB	28166B	1
Hedinger	Petroleum ether DAB	28167B	18
Hedinger	Petroleum ether DAB	281688	3
HEDINGER	Petroleum ether DAB	281688	2
hedinger	Petroleum ether DAB	28168B	1
Hedinger	Petroleum ether DAB	28168B	20
Hedinger	Petroleum ether DAB	281698	2
Hedinger	Petroleum ether DAB	28169B	14
Hedinger	Petroleum ether DAB	28170B	15
Hedinger	Petroleum ether DAB	281718	1
Hedinger	Petroleum ether DAB	28171B	28
Hedinger	Petroleum ether DAB	28172b	1
Hedinger	Petroleum ether DAB	28172B	41
Hedinger	Petroleum ether DAB	281738	6
Hedinger	Petroleum ether DAB	28173B	22
HEDINGER	Petroleum ether DAB	28173B	1
Hedinger	Petroleum ether DAB	28174	1
Hedinger	Petroleum ether DAB	281748	5
HEDINGER	Petroleum ether DAB	281748	1
Hedinger	Petroleum ether DAB	28174b	2
Hedinger	Petroleum ether DAB	28174B	33
hedinger	Petroleum ether DAB	28175	1
Hedinger	Petroleum ether DAB	281758	3
Hedinger	Petroleum ether DAB	28175B	33
Hedinger	Petroleum ether DAB	281768	3
hedinger	Petroleum ether DAB	28176B	1
Hedinger	Petroleum ether DAB	28176B	36
Hedinger	Petroleum ether DAB	28176B5395	1
Hedinger	Petroleum ether DAB	281778	5
Hedinger	Petroleum ether DAB	28177B	22
Hedinger	Petroleum ether DAB	281788	1
hedinger	Petroleum ether DAB	28178B	2
Hedinger	Petroleum ether DAB	28178B	29
Hedinger	Petroleum ether DAB	28179B	13
Hedinger	Petroleum ether DAB	2817SB	2
Hedinger	Petroleum ether DAB	28180B	17
HEDINGER	Petroleum ether DAB	28180B	1
Hedinger	Petroleum ether DAB	281818	4
Hedinger	Petroleum ether DAB	28181B	15
HEDINGER	Petroleum ether DAB	28181B	3
Hedinger	Petroleum ether DAB	28182B	3
Hedinger	Petroleum ether DAB	28183B	4
HEDINGER	Petroleum ether DAB	28183B	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
hedinger	Petroleum ether DAB	28184B	1
Hedinger	Petroleum ether DAB	28184B	11
HEDINGER	Petroleum ether DAB	28184B	2
Hedinger	Petroleum ether DAB	28185B	4
HEDINGER	Petroleum ether DAB	28185B	1
Hedinger	Petroleum ether DAB	28187B	11
HEDINGER	Petroleum ether DAB	28187B	2
Hedinger	Petroleum ether DAB	281888	1
Hedinger	Petroleum ether DAB	28188B	1
HEDINGER	Petroleum ether DAB	28188B	2
Hedinger	Petroleum ether DAB	28189B	1
HEDINGER	Petroleum ether DAB	28189B	1
HEDINGER	Petroleum ether DAB	2818B	1
Hedinger	Petroleum ether DAB	29041501	1
hedinger	Petroleum ether DAB	298171B	1
Hedinger	Petroleum ether DAB	2B175B	1
Hedinger	Petroleum ether DAB	2B180B	1
Hedinger	Petroleum ether DAB	30101310	1
Hedinger	Petroleum ether DAB	3071304	1
Hedinger	Petroleum ether DAB	3071401	1
Hedinger	Petroleum ether DAB	31101203	1
Hedinger	Petroleum ether DAB	5121815	1
Hedinger	Petroleum ether DAB	6324041	2
hedinger	Petroleum ether DAB	6326011	1
Hedinger	Petroleum ether DAB	7081801	1
Hedinger	Petroleum ether DAB	7091707	1
Hedinger	Petroleum ether DAB	9071803	1
Hedinger1	Petroleum ether DAB	28170B	1
Hediniger	Petroleum ether DAB	28167B	1
heidinger/anzag	Petroleum ether DAB	28174B	1
Heidinger/Anzag	Petroleum ether DAB	28174B	1
Heidinger/Anzag	Petroleum ether DAB	28176B	1
Heidinger/Anzag	Petroleum ether DAB	28179B	1
heidinger/gehe	Petroleum ether DAB	28167B	1
heidinger/gehe	Petroleum ether DAB	28172B	2
heidinger/gehe	Petroleum ether DAB	28175B	1
Heidinger/Noweda	Petroleum ether DAB	281788	1
Hubertus Apotheke	Petroleum ether DAB	6325055	1
Jenne/ Otto Fischer	Petroleum ether DAB	632111A	1
Jenne	Petroleum ether DAB	15045203	1
Jenne	Petroleum ether DAB	28171B	1
Jenne	Petroleum ether DAB	28173B	1
Jenne	Petroleum ether DAB	6320112	1
Jenne	Petroleum ether DAB	6320114	1
Jenne	Petroleum ether DAB	6321113	1
Kehr/Hedinger	Petroleum ether DAB	28175B	1
Klenk	Petroleum ether DAB	28167b	1
Klenk	Petroleum ether DAB	28171B	1
Kögl	Petroleum ether DAB	1801320	1
Kost/kost	Petroleum ether DAB	4065061213	1
Krieger	Petroleum ether DAB	6329034	1
Kriger/Hedinger/06.01.14	Petroleum ether DAB	28167B	1
L 20/Hedinger	Petroleum ether DAB	28175B	1
L10/Fischar	Petroleum ether DAB	632801A	1
L10	Petroleum ether DAB	28174B	1
L12	Petroleum ether DAB	28175B	1
L12	Petroleum ether DAB	28179B	1
Midas	Petroleum ether DAB	28178B	1
Noweda / Fischer	Petroleum ether DAB	6324075	1
Noweda Hedinger 24.02.2...	Petroleum ether DAB	28174B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda/Hedinger	Petroleum ether DAB	28166B	1
Noweda/Hedinger	Petroleum ether DAB	28168B	2
Noweda/Hedinger	Petroleum ether DAB	28170B	1
Noweda/Hedinger	Petroleum ether DAB	281738	1
Noweda/Hedinger	Petroleum ether DAB	281748	1
Noweda/Hedinger	Petroleum ether DAB	28174B	1
Noweda/hedinger	Petroleum ether DAB	28175B	1
Noweda/Hedinger	Petroleum ether DAB	28176B	1
Noweda/Hedinger	Petroleum ether DAB	28177B	1
Noweda/Hedinger	Petroleum ether DAB	28180B	3
Noweda/Hedinger	Petroleum ether DAB	281818	1
Noweda	Petroleum ether DAB		1
Noweda	Petroleum ether DAB	28164B	1
Noweda	Petroleum ether DAB	28166B	1
Noweda	Petroleum ether DAB	281698	1
Noweda	Petroleum ether DAB	28169B	1
Noweda	Petroleum ether DAB	28171B	2
Noweda	Petroleum ether DAB	28175B	2
Noweda	Petroleum ether DAB	28176B	3
Noweda	Petroleum ether DAB	28178B	1
Noweda	Petroleum ether DAB	28179B	1
Noweda	Petroleum ether DAB	28180B	1
Noweda	Petroleum ether DAB	281818	1
Noweda	Petroleum ether DAB	28185B	1
Noweda	Petroleum ether DAB	320062	1
Noweda	Petroleum ether DAB	6320033	1
Noweda	Petroleum ether DAB	6327021	1
Noweda	Petroleum ether DAB	6327062	2
Noweda	Petroleum ether DAB	6327092	1
Noweda	Petroleum ether DAB	6327093	1
Noweda	Petroleum ether DAB	6327105	1
Noweda	Petroleum ether DAB	6328064	1
Noweda	Petroleum ether DAB	6329043	1
Otto Fischar	Petroleum ether DAB	6322042	1
Otto Fischar GmbH & Co KG	Petroleum ether DAB	6329103	1
Otto Fischar GmbH & Co....	Petroleum ether DAB	6321083	1
Otto Fischar GmbH & Co....	Petroleum ether DAB	6325111	1
Otto Fischar GmbH & Co....	Petroleum ether DAB	6327013	1
Otto Fischar GmbH & Co....	Petroleum ether DAB	6321035	2
OTTO FISCHAR GmbH & Co....	Petroleum ether DAB	6321061	1
Otto Fischar GmbH & Co....	Petroleum ether DAB	6326101	1
Otto Fischar GmbH & Co....	Petroleum ether DAB	6327091	1
Otto Fischar GmbH & Co....	Petroleum ether DAB	X81A41	1
Otto Fischar GmbH &nCo.KG	Petroleum ether DAB	6327035	1
Otto Fischar gmbH Co.KG	Petroleum ether DAB	6321064	1
Otto Fischar GmbH&Co KG	Petroleum ether DAB	6327091	1
Otto Fischar GmbH&Co KG	Petroleum ether DAB	6327115	1
Otto Fischar GmbH/ Alli...	Petroleum ether DAB	6329023	1
Otto Fischar GmbH/AHD	Petroleum ether DAB	6320014	1
Otto Fischar GmbH/AHD	Petroleum ether DAB	6329051	1
Otto Fischar GmbH/Gehe	Petroleum ether DAB	6320032	1
Otto Fischar GmbH/Phönix	Petroleum ether DAB	6320062	1
Otto Fischar GmbH	Petroleum ether DAB	6320024	1
Otto Fischar GmbH	Petroleum ether DAB	6320033	1
Otto Fischar GmbH	Petroleum ether DAB	6320062	1
Otto Fischar GmbH	Petroleum ether DAB	6320072	1
Otto Fischar GmbH	Petroleum ether DAB	6323094	1
Otto Fischar GmbH	Petroleum ether DAB	6324063	1
Otto Fischar GmbH	Petroleum ether DAB	6324115	1
Otto Fischar GmbH	Petroleum ether DAB	6327114	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Otto Fischar GmbH	Petroleum ether DAB	6328014	1
Otto Fischar GmbH	Petroleum ether DAB	6328065	2
Otto Fischar GmbH	Petroleum ether DAB	6328111	1
Otto Fischar GmbH	Petroleum ether DAB	6328123	1
Otto Fischar GmbH	Petroleum ether DAB	6329034	1
Otto Fischar GmbH	Petroleum ether DAB	6329051	1
Otto Fischar GmbH	Petroleum ether DAB	6329053	1
Otto Fischar GmbH	Petroleum ether DAB	6329091	1
Otto Fischar Phönix	Petroleum ether DAB	6323069	1
Otto Fischar Phönix	Petroleum ether DAB	6323111	1
Otto Fischar/ Noweda/ N...	Petroleum ether DAB	6329073	1
Otto Fischar/AHD	Petroleum ether DAB	6320065	1
Otto Fischar/AHD	Petroleum ether DAB	6329073	1
Otto Fischar/Alliance	Petroleum ether DAB	6320105	1
Otto Fischar/Alliance	Petroleum ether DAB	632801A	1
Otto Fischar/Alliance	Petroleum ether DAB	6328105	1
Otto Fischar/Gehe	Petroleum ether DAB	6324035	1
Otto Fischar/Gehe	Petroleum ether DAB	6324044	2
Otto Fischar/Gehe	Petroleum ether DAB	6326027	1
Otto Fischar/Gehe	Petroleum ether DAB	6328113	1
Otto Fischar/Now	Petroleum ether DAB	6327091	1
Otto Fischar/Noweda	Petroleum ether DAB	6325119	1
Otto Fischar/Noweda	Petroleum ether DAB	6328113	1
otto fischar/Phoenix	Petroleum ether DAB	6325044	1
Otto Fischar/Phönix	Petroleum ether DAB	6327092	1
Otto Fischar/Phönix	Petroleum ether DAB	6328019	2
Otto Fischar/Phönix	Petroleum ether DAB	6328065	1
Otto Fischar/Phönix	Petroleum ether DAB	6328111	1
Otto Fischar/Phönix	Petroleum ether DAB	6328114	1
Otto Fischar/Phönix	Petroleum ether DAB	6329023	2
Otto Fischar/Phönix	Petroleum ether DAB	6329024	3
otto fischar/Sana	Petroleum ether DAB	6323065	1
Otto Fischar/Sanacorp	Petroleum ether DAB	6325051	1
Otto Fischar/Sanacorp	Petroleum ether DAB	6327116	1
Otto Fischar	Petroleum ether DAB	6320015	1
Otto Fischar	Petroleum ether DAB	6321061	2
Otto Fischar	Petroleum ether DAB	6322116	1
Otto Fischar	Petroleum ether DAB	6323063	1
Otto Fischar	Petroleum ether DAB	6325051	1
Otto Fischar	Petroleum ether DAB	6325063	1
Otto Fischar	Petroleum ether DAB	6326085	1
otto Fischar	Petroleum ether DAB	6327055	1
Otto Fischar	Petroleum ether DAB	6327072	1
Otto Fischar	Petroleum ether DAB	6327092	1
Otto Fischar	Petroleum ether DAB	632792	1
Otto Fischar	Petroleum ether DAB	6329103	1
Otto Fischbar GmbH	Petroleum ether DAB	6328072	1
Otto Fischbar GmbH	Petroleum ether DAB	6329031	1
Otto Fischer / Sanacorp	Petroleum ether DAB	6325083	1
Otto Fischer GmbH & co....	Petroleum ether DAB	6327019	1
Otto Fischer GmbH & co....	Petroleum ether DAB	6327105	1
Otto Fischer GmbH & co....	Petroleum ether DAB	6328044	2
Otto Fischer GmbH & co....	Petroleum ether DAB	6328074	1
Otto Fischer GmbH & Co.KG	Petroleum ether DAB	6320105	1
Otto Fischer GmbH / Gehe	Petroleum ether DAB	6328072	1
Otto Fischer GmbH / Phö...	Petroleum ether DAB	6328113	1
Otto Fischer GmbH/Allia...	Petroleum ether DAB	6329072	1
Otto Fischer GmbH/Allia...	Petroleum ether DAB	6329074	1
Otto Fischer GmbH	Petroleum ether DAB	15031402	1
Otto Fischer GmbH	Petroleum ether DAB	6329051	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Otto Fischer/ Sanacorp	Petroleum ether DAB	6320042	1
Otto Fischer/Gehe	Petroleum ether DAB	6329095	1
Otto Fischer/Noweda	Petroleum ether DAB	6325108	1
Otto Fischer/Noweda	Petroleum ether DAB	6327024	1
Otto Fischer/Phoenix	Petroleum ether DAB	6328032	2
Otto Fischer/Phönix	Petroleum ether DAB	6326026	4
Otto Fischer/Phönix	Petroleum ether DAB	6326047	1
otto fischer	Petroleum ether DAB	15081602	1
Otto Fischer	Petroleum ether DAB	6320012	1
Otto Fischer	Petroleum ether DAB	6323069	1
Otto Fischer	Petroleum ether DAB	6325104	1
otto fischer	Petroleum ether DAB	6326035	1
Otto Fischer	Petroleum ether DAB	6326052	1
Otto Fischer	Petroleum ether DAB	6326105	1
Otto Fischer	Petroleum ether DAB	6328015	1
Otto Fishar Noweda	Petroleum ether DAB	632065	1
OttoFischar GmbH&Co. KG/	Petroleum ether DAB	6321095	1
OttoFischar/Alkun	Petroleum ether DAB	362510A	1
OttoFischar/Alkun	Petroleum ether DAB	6328121	1
OttoFischer/Gehe	Petroleum ether DAB	6329034	1
OttoFischerGmbH/Phoenix	Petroleum ether DAB	6326075	2
Ph/Hedinger	Petroleum ether DAB	28178B	1
Phoenix 08.03.14 Fischar	Petroleum ether DAB	6324013	1
Phoenix/ Otto Fischer G...	Petroleum ether DAB	6328014	1
Phoenix/Cealo	Petroleum ether DAB	28176B/0818E-01170	1
Phoenix/hedinger	Petroleum ether DAB	28168B	1
Phoenix/hedinger	Petroleum ether DAB	28169B	2
phoenix/hedinger	Petroleum ether DAB	28172B	1
Phoenix/Hedinger	Petroleum ether DAB	28177B	1
Phoenix/Hedinger	Petroleum ether DAB	28178B	1
Phoenix	Petroleum ether DAB	28171B	1
Phoenix	Petroleum ether DAB	28176B	1
Phoenix	Petroleum ether DAB	28178B	1
Phoenix	Petroleum ether DAB	2818838	1
Phoenix	Petroleum ether DAB	28188B	1
Phoenix	Petroleum ether DAB	6326072	1
Phoenix	Petroleum ether DAB	6326093	1
Phoenix	Petroleum ether DAB	6328063	1
Phönix EK:6,26 EUR -1l	Petroleum ether DAB	28176B	1
Phönix 16.09.2019	Petroleum ether DAB	6329051	1
Phönix/Fischar	Petroleum ether DAB	6328013	1
Phönix/Fischar	Petroleum ether DAB	6328072	5
Phönix/Fischer	Petroleum ether DAB	6327034	1
Phönix/Hedinger	Petroleum ether DAB	28179B	1
Phönix	Petroleum ether DAB	28168B	1
Phönix	Petroleum ether DAB	28169B	1
phönix	Petroleum ether DAB	28175B	1
Phönix	Petroleum ether DAB	6320115	1
phönix	Petroleum ether DAB	6326112	1
Phönix	Petroleum ether DAB	6327013	1
phönix	Petroleum ether DAB	6327062	1
Phönix	Petroleum ether DAB	6327093	1
Phönix	Petroleum ether DAB	6329051	1
Phönix	Petroleum ether DAB	6329123	1
Phönix	Petroleum ether DAB	6329124	1
Sana Corp/Otto Fischar	Petroleum ether DAB	6328063	1
Sanacorp 8.12.15	Petroleum ether DAB	28174B	2
Sanacorp /Fischar	Petroleum ether DAB	6329123	1
Sanacorp WE:04.02.2017 ...	Petroleum ether DAB	28175B	1
Sanacorp/ Lamotte	Petroleum ether DAB	28177B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp/Hedinger	Petroleum ether DAB	28181B	1
Sanacorp	Petroleum ether DAB		2
Sanacorp	Petroleum ether DAB	28166B	1
Sanacorp	Petroleum ether DAB	28169B	1
Sanacorp	Petroleum ether DAB	28171B	5
Sanacorp	Petroleum ether DAB	28174B	1
Sanacorp	Petroleum ether DAB	28175B	1
Sanacorp	Petroleum ether DAB	28177B	1
Sanacorp	Petroleum ether DAB	28178B	1
Sanacorp	Petroleum ether DAB	6322096	1
Sanacorp	Petroleum ether DAB	6323068	1
Sanacorp	Petroleum ether DAB	6324103	1
Sanacorp	Petroleum ether DAB	632510A	1
Sanacorp	Petroleum ether DAB	6327091	1
Sanacorp	Petroleum ether DAB	6328111	1
Spangr/Hedinger	Petroleum ether DAB	28169B	1
Spangro 14.09.2018	Petroleum ether DAB	6328064	1
Spangro/Fischar	Petroleum ether DAB	6327017	1
Spangro/Hedinger	Petroleum ether DAB	28171B	1
Stumpf / Hedinger	Petroleum ether DAB	28169B	1
Stumpf/Hedinger	Petroleum ether DAB	281718	1
Stumpf/Hedinger	Petroleum ether DAB	28172B	1
Taoasis	Petroleum ether DAB	6328063	1
tob	Petroleum ether DAB	6326092	1
Unisan	Petroleum ether DAB	28174B	1
Vbf A1/Phönix	Petroleum ether DAB	318E-01170	1
VDL	Petroleum ether DAB	28180B	1
wepa/Sanaco	Petroleum ether DAB	6326031	1

- 295 244 spectra from 1324 *Apo-Ident* customers from a total of 52 567 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Petroleum ether DAB* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Petroleum ether DAB* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	240	0	68 259
Type B	0	120	0	111 193
Type C	0	2210	4	295 244

The substance/substance group *Petroleum ether DAB* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.5000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.8193 % (> 99.6838 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Petroleum ether DAB* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Myrtle oil	18.53	–
Petroleum oil, not for internal use	21.49	–
Peppermint oil	26.57	–
Verbena oil, nature-identical	28.54	–
Turpentine oil	32.73	–
Matricaria oil, rich in (-)-alpha-bisa...	37.91	–
Cypress oil	38.30	–
Mint oil	39.84	–
Cajeput (essentiel oil)	39.85	–
Geranium oil, genuine	44.97	–
Juniper wood oil	45.69	–
Citronella oil	48.32	–
Melissa oil	50.59	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Petroleum ether DAB* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30899	30899	0.00	31.42
31253	31253	0.00	28.01
31283	31283	0.00	32.70
35820	30899	10.33	26.02
35855	31253	10.30	32.05

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Petroleum oil, not for internal use**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31212-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Petroleum oil, not for internal use

Special notes

When selecting the *Petroleum oil, not for internal use* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Petroleum oil, not for internal use	4	2	16

Second-stage model

For differentiation of the substance/substance group *Petroleum oil, not for internal use* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Petroleum oil, not for internal use*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Petroleum oil, n...	13146704	31212	40	1403110
Caelo	Petroleum oil, n...	14019607	31387	60	20140124
Caelo	Petroleum oil, n...	173331	34324	40	20180129*
Caelo	Petroleum oil, n...	20003514005	35842	50	20201207

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 190 spectra of 4 reference samples from the substance/substance group *Petroleum oil, not for internal use*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 309 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Petroleum oil, not for internal use*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Petroleum oil, not for inter…	163278	33109	40
Caelo	Petroleum oil, not for inter…	182344	34238	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 23 spectra from 16 *Apo-Ident* customers from 17 batches from the substance/substance group *Petroleum oil, not for internal use*.
- Among them are spectra of independent samples from 16 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Petroleum oil, not for inter…	11198403	1
Caelo	Petroleum oil, not for inter…	113791	1
Caelo	Petroleum oil, not for inter…	12173103	1
Caelo	Petroleum oil, not for inter…	13086401	1
Caelo	Petroleum oil, not for inter…	13086402	1
Caelo	Petroleum oil, not for inter…	13146702	2
Caelo	Petroleum oil, not for inter…	13303603	2
Caelo	Petroleum oil, not for inter…	14019607	3
Caelo	Petroleum oil, not for inter…	14242203	2
Caelo	Petroleum oil, not for inter…	16165201	1
Caelo	Petroleum oil, not for inter…	16327803	1
Caelo	Petroleum oil, not for inter…	16327804	1
Caelo	Petroleum oil, not for inter…	18234408	1
Caelo	Petroleum oil, not for inter…	18234414	1
Caelo	Petroleum oil, not for inter…	2306921	1
Caelo	Petroleum oil, not for inter…	4416I-02003	1
Caesar & Loretz GmbH	Petroleum oil, not for inter…	18234414	1
Caesar & Loretz GmbH	Petroleum oil, not for inter…	20003514011	1

- 297 435 spectra from 1324 *Apo-Ident* customers from a total of 52 970 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Petroleum oil, not for internal use* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Petroleum oil, not for internal use* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	190	0	68 309
Type B	0	80	0	111 233
Type C	0	23	0	297 435

The substance/substance group *Petroleum oil, not for internal use* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 96.8421 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6879 %)	100.0000 % (> 73.9130 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Petroleum oil, not for internal use* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Petroleum ether DAB	12.62	–
Triglycerides, medium-chain	22.14	–
Myrtle oil	33.91	–
Peppermint oil	33.98	–
all-rac-alpha-tocopheryl acetate	34.03	–
Verbena oil, nature-identical	34.53	–
Camphor oil 20%	36.53	–
Mint oil	39.57	–
Guaiazulene 25%, water-soluble	39.96	–
Turpentine oil	41.16	–
Citronella oil	45.84	–
Matricaria oil, rich in (-)-alpha-bisa…	45.88	–
Geranium oil, genuine	47.51	–
Melissa oil	47.55	–
Soy lecithin, liquid	49.28	–
Cypress oil	52.04	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Petroleum oil, not for internal use* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31212	31212	0.00	35.57
31387	31212	4.36	35.57
34324	34324	0.00	16.59
35842	31212	17.87	32.74

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Phenoxyethanol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31808-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Phenoxyethanol; Phenoxyethanolum

Special notes

When selecting the *Phenoxyethanol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Phenoxyethanol	3	3	3

Second-stage model

For differentiation of the substance/substance group *Phenoxyethanol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Phenoxyethanol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Audor Pharma	Phenoxyethanol	APDEG4324219P	31808	60	AR-16-FG-003720-01
Audor Pharma	Phenoxyethanol	APDEG4324219P	31953	60	20150219
Audor Pharma	Phenoxyethanol	APDEG4324219XP	33293	40	20170406
Euro OTC	Phenoxyethanol	2107019	35624	50	20210831*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 210 spectra of 4 reference samples from the substance/substance group *Phenoxyethanol*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 289 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Phenoxyethanol*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Euro OTC	Phenoxyethanol	2007015	35121	40
Euro OTC	Phenoxyethanol	2103021	35269	40
Euro OTC	Phenoxyethanol	2111011	35902	50

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 19 spectra from 10 *Apo-Ident* customers from 6 batches from the substance/substance group *Phenoxyethanol*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Audor Pharma	Phenoxyethanol	APDEG432419P	1
Audor Pharma	Phenoxyethanol	APDEG4324219	1
Audor Pharma	Phenoxyethanol	APDEG4324219P	12
Audor Pharma	Phenoxyethanol	APDEG4324219XP	3
EuRho	Phenoxyethanol	2103021-01	1
Fluka Analytics	Phenoxyethanol		1

- 297 439 spectra from 1324 *Apo-Ident* customers from a total of 52 981 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Phenoxyethanol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Phenoxyethanol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	210	0	68 289
Type B	0	130	0	111 183
Type C	0	19	0	297 439

The substance/substance group *Phenoxyethanol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.1429 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6879 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Phenoxyethanol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Hydroxyethyl salicylate	34.35	–
Benzyl alcohol	97.10	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Phenoxyethanol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31808	31808	0.00	51.23
31953	35624	2.48	51.04
33293	35624	4.84	48.78
35624	35624	0.00	49.95

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Phytomenadione**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30747-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Phytomenadione; Phytomenadionum

Special notes

When selecting the *Phytomenadione* substance/substance group, the following information is displayed to the user:

- Distinction to Phytomenadione, racemic: The monography Phytomenadione has been discontinued in Ph. Eur. 9.6. At the same time, Phytomenadione, racemic has been published. Decide, if a supplementary test is necessary.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Phytomenadione	3	2	12

Second-stage model

For differentiation of the substance/substance group *Phytomenadione* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Phytomenadione*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Fagron	Phytomenadione	12H31-N02	30747	40	1405178
Fagron	Phytomenadione	16D07-B03-328576	33303	40	20160603
Fagron	Phytomenadione	16D07-B03-328730	33304	40	20160603

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 120 spectra of 3 reference samples from the substance/substance group *Phytomenadione*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 379 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 100 spectra of 2 reference samples from the substance/substance group *Phytomenadione*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Fagron	Phytomenadione	14I02-B04-301537	31621	60
Fagron	Phytomenadione	17F12-B12-344796	34086	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 213 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 14 spectra from 9 *Apo-Ident* customers from 13 batches from the substance/substance group *Phytomenadione*.
- Among them are spectra of independent samples from 12 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Fagron	Phytomenadione	13C25-N07	1
Fagron	Phytomenadione	13D26-B07-286714	1
Fagron	Phytomenadione	15F25-B04-314081	1
Fagron	Phytomenadione	17F12-B12	1
Fagron	Phytomenadione	17F12-B12-344795	2
Fagron	Phytomenadione	17F28-H10-00239	1
Fagron	Phytomenadione	18H03-B06	1
Fagron	Phytomenadione	20D29-F05	1
Merck	Phytomenadione		1
Merck	Phytomenadione	EH13000590	1
Merck	Phytomenadione	EH14000190	1
Merck	Phytomenadione	L016067990	1
Merck	Phytomenadione	L017134390	1

- 297 444 spectra from 1324 *Apo-Ident* customers from a total of 52 975 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Phytomenadione* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Phytomenadione* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	120	0	68 379
Type B	0	100	0	111 173
Type C	0	13	1	297 444

The substance/substance group *Phytomenadione* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.0000 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 94.0000 %)
Type C	100.0000 % (> 99.6881 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Phytomenadione* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Metronidazole 25% in white petrolatum	56.65	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Phytomenadione* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30747	30747	0.00	116.82
33303	30747	4.53	116.09
33304	30747	7.47	115.41

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Pine silvestris oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31183-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Pine silvestris oil; Pini silvestris aetheroleum

Special notes

When selecting the *Pine silvestris oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Pine silvestris oil	5	2	69

Second-stage model

For differentiation of the substance/substance group *Pine silvestris oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Pine silvestris oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Pine silvestris ...	13334502	31202	40	1403168
Caelo	Pine silvestris ...	13334501	31405	40	20131009
Caelo	Pine silvestris ...	180752	34452	40	20180309*
Caelo	Pine silvestris ...	22002074	36530	40	20220707*
Fagron	Pine silvestris ...	13E24-N05	31183	40	1403166

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 200 spectra of 5 reference samples from the substance/substance group *Pine silvestris oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 299 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Pine silvestris oil*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Pine silvestris oil	16298401	33250	40
Caelo	Pine silvestris oil	21002090005	35746	50
Caelo	Pine silvestris oil	16298401	33424	40

- 111 183 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 200 spectra from 84 *Apo-Ident* customers from 70 batches from the substance/substance group *Pine silvestris oil*.

- Among them are spectra of independent samples from 63 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Bergland	Pine silvestris oil	C502587	1
Bergland	Pine silvestris oil	C700086	1
Caelo	Pine silvestris oil	11024602	1
Caelo	Pine silvestris oil	11024603	1
Caelo	Pine silvestris oil	11161605	2
Caelo	Pine silvestris oil	12080504	5
Caelo	Pine silvestris oil	12246905	1
Caelo	Pine silvestris oil	12246907	2
Caelo	Pine silvestris oil	13334501	6
Caelo	Pine silvestris oil	14252202	4
Caelo	Pine silvestris oil	14252203	2
Caelo	Pine silvestris oil	15239101	8
Caelo	Pine silvestris oil	15239102	2
Caelo	Pine silvestris oil	15239103	1
Caelo	Pine silvestris oil	16007402	4
Caelo	Pine silvestris oil	16007405	2
Caelo	Pine silvestris oil	16007406	1
Caelo	Pine silvestris oil	16298401	13
Caelo	Pine silvestris oil	16298403	2
Caelo	Pine silvestris oil	1713001	1
Caelo	Pine silvestris oil	17133001	10
Caelo	Pine silvestris oil	17133002	1
Caelo	Pine silvestris oil	17321803	1
Caelo	Pine silvestris oil	17321804	1
Caelo	Pine silvestris oil	18075201	18
Caelo	Pine silvestris oil	18075202	3
Caelo	Pine silvestris oil	18075203	1
Caelo	Pine silvestris oil	18075204	1
Caelo	Pine silvestris oil	18075205	3
Caelo	Pine silvestris oil	18075206	1
Caelo	Pine silvestris oil	190334001	3
Caelo	Pine silvestris oil	19033401	1
Caelo	Pine silvestris oil	19033402	6
Caelo	Pine silvestris oil	19033403	1
Caelo	Pine silvestris oil	19033404	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Pine silvestris oil	2000000397005	1
Caelo	Pine silvestris oil	200000397004	1
Caelo	Pine silvestris oil	2000039	1
Caelo	Pine silvestris oil	20000397004	5
Caelo	Pine silvestris oil	20000397005	11
Caelo	Pine silvestris oil	20000397044	1
Caelo	Pine silvestris oil	21002090003	1
Caelo	Pine silvestris oil	24061710	1
Caelo	Pine silvestris oil	26091404	1
Caesar & Loretz GmbH AHD	Pine silvestris oil	19033404	1
Caesar & Loretz GmbH/Fi...	Pine silvestris oil	19033404	1
Caesar & Loretz GmbH/Gehe	Pine silvestris oil	18075201	2
Caesar & Loretz GmbH/gehe	Pine silvestris oil	19033404	1
Caesar & Loretz GmbH/Gehe	Pine silvestris oil	20000397004	2
Caesar & Loretz GmbH/Sa...	Pine silvestris oil	20000397004	1
Caesar & Loretz GmbH	Pine silvestris oil	18075201	3
Caesar & Loretz GmbH	Pine silvestris oil	19033402	1
Caesar & Loretz GmbH	Pine silvestris oil	19033403	1
Caesar & Loretz GmbH	Pine silvestris oil	19033404	3
Caesar & Loretz GmbH	Pine silvestris oil	19033405	2
Caesar & Loretz GmbH	Pine silvestris oil	20000397004	2
Caleo/Noveda	Pine silvestris oil	20000397004	1
Fagron	Pine silvestris oil	12G20-N04	1
Fagron	Pine silvestris oil	12L03-N05	1
Fagron	Pine silvestris oil	14J27-B06	1
Fagron	Pine silvestris oil	15F12_B02_308878	1
Fagron	Pine silvestris oil	15F12-B02-308878	1
Fagron	Pine silvestris oil	15F12-B02-323109	1
Fiebig	Pine silvestris oil	16298402	1
Fiebig	Pine silvestris oil	17321801	1
Fiebig	Pine silvestris oil	18075201	2
Hänseler	Pine silvestris oil		8
Noweda	Pine silvestris oil	11161605	1
noweda	Pine silvestris oil	13334501	1
Phönix	Pine silvestris oil	13334501	2
Taoasis/Phönix	Pine silvestris oil	32372-110382	1
Taoasis	Pine silvestris oil	20017-118846	1
Taoasis	Pine silvestris oil	28663-119029	1
Taoasis	Pine silvestris oil	28663-119531	1
Taoasis	Pine silvestris oil	28663-120876	2
Taoasis	Pine silvestris oil	30600-18490	1
Taoasis	Pine silvestris oil	33717-112501	2
Taoasis	Pine silvestris oil	35808-123038	2
Taoasis	Pine silvestris oil	49977-12442	1
Taoasis	Pine silvestris oil	49977-125240	2
Taoasis	Pine silvestris oil	8169-117244	4

- 297 258 spectra from 1324 *Apo-Ident* customers from a total of 52 917 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Pine silvestris oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose,

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

all relevant spectra of the various substances were compared with *Pine silvestris oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	200	0	68 299
Type B	0	130	0	111 183
Type C	0	198	2	297 258

The substance/substance group *Pine silvestris oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6875 %)	99.0000 % (> 97.5000 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Pine silvestris oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Cypress oil	20.88	–
Dwarf pine oil	23.51	–
Juniper wood oil	29.18	–
Spearmint oil	29.32	–
Caraway oil	33.78	–
Turpentine oil	34.58	–
Eucalyptus oil	35.55	–
Juniper oil	36.09	–
Citric oil	38.84	–
Bitter orange oil	42.25	–
Grapefruit oil	46.26	–
Bergamot oil	46.85	–
Cedar wood oil	54.87	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Pine silvestris oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31183	31183	0.00	21.41
31202	31202	0.00	22.12
31405	31202	2.42	22.00
34452	34452	0.00	22.48
36530	36530	0.00	20.88

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Pine tar**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31221-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Pine tar; Pix liquida

Special notes

When selecting the *Pine tar* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Pine tar	3	1	0

Second-stage model

For differentiation of the substance/substance group *Pine tar* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Pine tar*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Pine tar	13008302	31221	40	1403320
Caelo	Pine tar	16017905	33442	40	20160217
Caelo	Pine tar	180594	34085	40	20180227*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 120 spectra of 3 reference samples from the substance/substance group *Pine tar*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 379 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 60 spectra of 1 reference samples from the substance/substance group *Pine tar*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Pine tar	13008309	31614	60

- 111 253 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 0 spectra from 0 *Apo-Ident* customers from 0 batches from the substance/substance group *Pine tar*.
- Among them are spectra of independent samples from 0 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.
- 297 458 spectra from 1324 *Apo-Ident* customers from a total of 52 987 batches from a further 344 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Pine tar* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Pine tar* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	120	0	68 379
Type B	0	60	0	111 253
Type C	0	0	0	297 458

The substance/substance group *Pine tar* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.0000 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 90.0000 %)
Type C	100.0000 % (> 99.6899 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Pine tar* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
(s)-Lactic acid	146.32	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Pine tar* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31221	31221	0.00	166.29
33442	31221	22.30	205.35
34085	34085	0.00	249.03

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Polyhexanide solution 20%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30596-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Polyhexanide solution 20%; Solutio polyhexanidi 20%

Special notes

When selecting the *Polyhexanide solution 20%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Polyhexanide solution 20%	5	2	199

Second-stage model

For differentiation of the substance/substance group *Polyhexanide solution 20%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Polyhexanide solution 20%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Fagron	Polyhexanide sol...	13H05-N04	31180	40	1403256
Fagron	Polyhexanide sol...	13K29-B30-288935	31571	60	20131217
Fagron	Polyhexanide sol...	16B16-B04-322720	32733	40	20160229
Fagron	Polyhexanide sol...	18B16-B10-345748	34087	40	20180306
Fagron	Polyhexanide sol...	20A16-F03-368291	34846	40	20200228

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 220 spectra of 5 reference samples from the substance/substance group *Polyhexanide solution 20%*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 279 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Polyhexanide solution 20%*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Fagron	Polyhexanide solution 20%	12A04-N06	30596	40
Fagron	Polyhexanide solution 20%	15H28-B11-313603	32276	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1008 spectra from 478 *Apo-Ident* customers from 217 batches from the substance/substance group *Polyhexanide solution 20%*.

- Among them are spectra of independent samples from 196 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
18GR009011	Polyhexanide solution 20%	19D03-B01-360931	1
Anzag 14.01.2019	Polyhexanide solution 20%	18D09-B01-348161	1
ANZAG KASSEL	Polyhexanide solution 20%	18GR353621	1
Anzag	Polyhexanide solution 20%	16B16-B04-325487	1
Anzag	Polyhexanide solution 20%	16G29-B01-335336	2
B.Braun/ Noweda	Polyhexanide solution 20%	13103M18	3
Beiersdorf	Polyhexanide solution 20%	18816-810-345748	1
bergland	Polyhexanide solution 20%	18D09-B01-348161	1
Bombastus	Polyhexanide solution 20%	18b16b10435748	1
Caelo	Polyhexanide solution 20%	12B09-N01	1
Caelo	Polyhexanide solution 20%	12GR227646	1
Caelo	Polyhexanide solution 20%	12K20N01	1
Caelo	Polyhexanide solution 20%	13351M28	2
Caelo	Polyhexanide solution 20%	13K29-B30-288934	1
Caelo	Polyhexanide solution 20%	13K29-B30-288938	2
Caelo	Polyhexanide solution 20%	14F25-B06	1
Caelo	Polyhexanide solution 20%	14F25-B06-296291	2
Caelo	Polyhexanide solution 20%	14F25-B06-296292	2
Caelo	Polyhexanide solution 20%	14F25-B06-300093	2
Caelo	Polyhexanide solution 20%	14F25-B06-305013	1
Caelo	Polyhexanide solution 20%	14GR132285	1
Caelo	Polyhexanide solution 20%	15D09-B01-348161	1
Caelo	Polyhexanide solution 20%	15H28-B11	1
Caelo	Polyhexanide solution 20%	15H28-B11-313603	1
Caelo	Polyhexanide solution 20%	15H28-B11-315703	2
Caelo	Polyhexanide solution 20%	16B16-B04	1
Caelo	Polyhexanide solution 20%	16B16-B04-318789	2
Caelo	Polyhexanide solution 20%	16B16B04322720	2
Caelo	Polyhexanide solution 20%	16B16-B04-325487	1
Caelo	Polyhexanide solution 20%	16B16-B04-3325487	1
Caelo	Polyhexanide solution 20%	16G29B01328171	1
Caelo	Polyhexanide solution 20%	16G29-B01-335336	1
Caelo	Polyhexanide solution 20%	16GR025056	1
Caelo	Polyhexanide solution 20%	17GR185627	2
Caelo	Polyhexanide solution 20%	17L14-B02-343990	1
Caelo	Polyhexanide solution 20%	17L14-B02-343991	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Polyhexanide solution 20%	18/18-B05-355791	1
Caelo	Polyhexanide solution 20%	18B16-B10-345748	2
Caelo	Polyhexanide solution 20%	18D09-B01-348160	2
Caelo	Polyhexanide solution 20%	18D09B01348161	1
Caelo	Polyhexanide solution 20%	18D09-B01-348161	2
Caelo	Polyhexanide solution 20%	18G02-B01	1
Caelo	Polyhexanide solution 20%	18G02-B01-353296	4
Caelo	Polyhexanide solution 20%	18G02-B01-353297	1
Caelo	Polyhexanide solution 20%	19A16-B04-357983	2
Caelo	Polyhexanide solution 20%	19D03-B01-360930	2
Caelo	Polyhexanide solution 20%	19d03-b01-360931	1
Caelo	Polyhexanide solution 20%	20A16-F03-368291	1
Caelo	Polyhexanide solution 20%	20A16-F03-368292	1
Caelo	Polyhexanide solution 20%	22D01-F02	1
Caelo	Polyhexanide solution 20%	93007	1
Caelo	Polyhexanide solution 20%	AKD17	1
Caelo	Polyhexanide solution 20%	F03-3682900	2
Calachem / Noweda	Polyhexanide solution 20%	19A16-B04-357983	1
Calachem / Noweda	Polyhexanide solution 20%	20A16-F03-3682809	2
Caleo/ Noweda	Polyhexanide solution 20%	18J18-B05	1
Ebert-Jacobi	Polyhexanide solution 20%	16G29-B01-328171	1
Ebert-Jacobi	Polyhexanide solution 20%	16G29-B01-330629	1
Euro OTC	Polyhexanide solution 20%	15H28-B11-313603	1
Euro OTC	Polyhexanide solution 20%	15H28-B11-313604	1
Euro OTC	Polyhexanide solution 20%	16B16-B04-320854	1
Euro OTC	Polyhexanide solution 20%	18D09-B01348161	1
Euro OTC	Polyhexanide solution 20%	18D09-B01-348161	4
facron 2	Polyhexanide solution 20%	19A16b04359557	1
Fagon/Sanacorp	Polyhexanide solution 20%	18J18-B05-355791	1
Fagron	Polyhexanide solution 20%		4
Fagron	Polyhexanide solution 20%	1068495	1
Fagron	Polyhexanide solution 20%	1092005	1
Fagron	Polyhexanide solution 20%	11G22N02	1
Fagron	Polyhexanide solution 20%	11GR180545	1
Fagron	Polyhexanide solution 20%	12A04-N06	1
Fagron	Polyhexanide solution 20%	12D27-N07	1
Fagron	Polyhexanide solution 20%	12k20-n01	2
Fagron	Polyhexanide solution 20%	12K20-N01	5
Fagron	Polyhexanide solution 20%	13GR157470	1
Fagron	Polyhexanide solution 20%	13H05-N01	8
Fagron	Polyhexanide solution 20%	13H05-N04	9
Fagron	Polyhexanide solution 20%	13H05-N040339/904	1
Fagron	Polyhexanide solution 20%	13H05-No4	1
Fagron	Polyhexanide solution 20%	13K29-B30	2
Fagron	Polyhexanide solution 20%	13K29-B30_288934	1
Fagron	Polyhexanide solution 20%	13K29-B30-288934	5
Fagron	Polyhexanide solution 20%	13K29-B30-288938	4
Fagron	Polyhexanide solution 20%	14F25-B06	11
Fagron	Polyhexanide solution 20%	14F25-B06-296291	2
Fagron	Polyhexanide solution 20%	14F25-b06-296292	1
Fagron	Polyhexanide solution 20%	14F25-B06296292	1
Fagron	Polyhexanide solution 20%	14F25-B06-296292	12
Fagron	Polyhexanide solution 20%	14F25B06300092	1
Fagron	Polyhexanide solution 20%	14F25-B06-300092	8
Fagron	Polyhexanide solution 20%	14F25-B06-300093	8
Fagron	Polyhexanide solution 20%	14F25-B06-305013	4
Fagron	Polyhexanide solution 20%	14GR132285	2
Fagron	Polyhexanide solution 20%	14GR274618	1
Fagron	Polyhexanide solution 20%	15C20-B06-309678	6
Fagron	Polyhexanide solution 20%	15GR209540	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Polyhexanide solution 20%	15H25-B11-312309	1
Fagron	Polyhexanide solution 20%	15H28	1
Fagron	Polyhexanide solution 20%	15H28-B11	7
Fagron	Polyhexanide solution 20%	15H28-B11_313603	1
Fagron	Polyhexanide solution 20%	15h28-b11-312309	1
Fagron	Polyhexanide solution 20%	15H28-B11-312309	5
Fagron	Polyhexanide solution 20%	15H28-B11313603	1
Fagron	Polyhexanide solution 20%	15H28-B11-313603	13
Fagron	Polyhexanide solution 20%	15H28-B11-313604	9
Fagron	Polyhexanide solution 20%	15H28-B11-315703	7
Fagron	Polyhexanide solution 20%	15H28B11345703	1
Fagron	Polyhexanide solution 20%	16816-B04	1
Fagron	Polyhexanide solution 20%	16B16-b04	1
Fagron	Polyhexanide solution 20%	16B16-B04	7
Fagron	Polyhexanide solution 20%	16B16-B04-318789	10
Fagron	Polyhexanide solution 20%	16B16-B04-320854	9
Fagron	Polyhexanide solution 20%	16B16-b04-322720	1
Fagron	Polyhexanide solution 20%	16B16-B04-322720	11
Fagron	Polyhexanide solution 20%	16B16-B04-325487	13
Fagron	Polyhexanide solution 20%	16G259-B01-328171	1
Fagron	Polyhexanide solution 20%	16G29-B01	8
Fagron	Polyhexanide solution 20%	16G-29-B01	1
Fagron	Polyhexanide solution 20%	16G29-B01-328171	11
Fagron	Polyhexanide solution 20%	16G29-B01-330629	11
Fagron	Polyhexanide solution 20%	16G29-B01-330630	3
Fagron	Polyhexanide solution 20%	16G29-B01-334336	1
Fagron	Polyhexanide solution 20%	16g29-b01-335336	1
Fagron	Polyhexanide solution 20%	16G29-B01-335336	16
Fagron	Polyhexanide solution 20%	16G29-B01-337612	3
Fagron	Polyhexanide solution 20%	16gr025056	1
Fagron	Polyhexanide solution 20%	16GR025056	5
Fagron	Polyhexanide solution 20%	16GR180497	2
Fagron	Polyhexanide solution 20%	16GR1-B01-330629	1
Fagron	Polyhexanide solution 20%	17G185627	1
Fagron	Polyhexanide solution 20%	17GR185627	16
Fagron	Polyhexanide solution 20%	17GR1856627	1
Fagron	Polyhexanide solution 20%	17L14-B02	2
Fagron	Polyhexanide solution 20%	17l14b02143990	1
Fagron	Polyhexanide solution 20%	17l14-b02-343990	1
Fagron	Polyhexanide solution 20%	17L14-B02-343990	13
Fagron	Polyhexanide solution 20%	17L14-B02-343991	11
Fagron	Polyhexanide solution 20%	17L14-B02-34990	1
Fagron	Polyhexanide solution 20%	18/18B05355791	1
Fagron	Polyhexanide solution 20%	18009-8013-348161	1
Fagron	Polyhexanide solution 20%	18071501	1
Fagron	Polyhexanide solution 20%	18816B10345748	1
Fagron	Polyhexanide solution 20%	18816-B10-345748	2
Fagron	Polyhexanide solution 20%	18B10-345748	1
Fagron	Polyhexanide solution 20%	18B16	1
Fagron	Polyhexanide solution 20%	18B16-B10	3
Fagron	Polyhexanide solution 20%	18B16-B10-345748	25
Fagron	Polyhexanide solution 20%	18D09-B01	6
Fagron	Polyhexanide solution 20%	18d09b01348160	1
Fagron	Polyhexanide solution 20%	18d09-b01-348160	1
Fagron	Polyhexanide solution 20%	18D09-B01348160	1
Fagron	Polyhexanide solution 20%	18D09-B01-348160	17
Fagron	Polyhexanide solution 20%	18D09-B01-348161	25
Fagron	Polyhexanide solution 20%	18G02-801	1
Fagron	Polyhexanide solution 20%	18G02-B01	10
Fagron	Polyhexanide solution 20%	18G02-B01_353297	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Polyhexanide solution 20%	18G02-B01353296	1
Fagron	Polyhexanide solution 20%	18G02-B01-353296	25
Fagron	Polyhexanide solution 20%	18G02-B01-353297	14
Fagron	Polyhexanide solution 20%	18G02-B01-353298	1
Fagron	Polyhexanide solution 20%	18GR038066	8
Fagron	Polyhexanide solution 20%	18GR353621	5
Fagron	Polyhexanide solution 20%	18I18-B05-355791	3
Fagron	Polyhexanide solution 20%	18J18-B05	4
Fagron	Polyhexanide solution 20%	18j18-b05-355791	1
Fagron	Polyhexanide solution 20%	18J18-B05355791	1
Fagron	Polyhexanide solution 20%	18J18-B05-355791	18
Fagron	Polyhexanide solution 20%	19003-B01-360931	1
Fagron	Polyhexanide solution 20%	19A16_B04	1
Fagron	Polyhexanide solution 20%	19A16-B04	11
Fagron	Polyhexanide solution 20%	19A16-B04_357983	1
Fagron	Polyhexanide solution 20%	19A16-B04-357983	19
Fagron	Polyhexanide solution 20%	19A16-B04-359557	29
Fagron	Polyhexanide solution 20%	19A16-B04-39557	1
Fagron	Polyhexanide solution 20%	19A16-B09-357983	1
Fagron	Polyhexanide solution 20%	19D03-01-360931	1
Fagron	Polyhexanide solution 20%	19D03B01	1
Fagron	Polyhexanide solution 20%	19D03-B01	8
Fagron	Polyhexanide solution 20%	19D03B01360930	1
Fagron	Polyhexanide solution 20%	19D03-B01-360930	29
Fagron	Polyhexanide solution 20%	19D03-B01-3609-30	1
Fagron	Polyhexanide solution 20%	19D03-B01360931	1
Fagron	Polyhexanide solution 20%	19D03-B01-360931	18
Fagron	Polyhexanide solution 20%	19D-03-B01-360931	1
Fagron	Polyhexanide solution 20%	19D03-B01-360932	2
Fagron	Polyhexanide solution 20%	19D03-B01-360931	1
Fagron	Polyhexanide solution 20%	19D03-BV01-360931	2
Fagron	Polyhexanide solution 20%	19D23-B01-360932	1
Fagron	Polyhexanide solution 20%	19d303b01360930	1
Fagron	Polyhexanide solution 20%	19D3-B01	1
Fagron	Polyhexanide solution 20%	19E15-B01	4
Fagron	Polyhexanide solution 20%	19GR009011	2
Fagron	Polyhexanide solution 20%	19Gr304768	1
Fagron	Polyhexanide solution 20%	19GR304768	10
Fagron	Polyhexanide solution 20%	2019U-03580	1
Fagron	Polyhexanide solution 20%	2021906	1
Fagron	Polyhexanide solution 20%	20A166-F03-3682809	1
Fagron	Polyhexanide solution 20%	20A16-F003-368289	1
Fagron	Polyhexanide solution 20%	20a16-f03	1
Fagron	Polyhexanide solution 20%	20A16-F03	29
Fagron	Polyhexanide solution 20%	20A16-F03_368290	2
Fagron	Polyhexanide solution 20%	20A16F033368296	1
Fagron	Polyhexanide solution 20%	20A16-F03-3628008	1
Fagron	Polyhexanide solution 20%	20A16-F03-366296	1
Fagron	Polyhexanide solution 20%	20A16-F03-368288	14
Fagron	Polyhexanide solution 20%	20A16-F03-368289	13
Fagron	Polyhexanide solution 20%	20A16-F03-368289	1
Fagron	Polyhexanide solution 20%	20A16-F03368290	1
Fagron	Polyhexanide solution 20%	20A16-F03-368290	30
Fagron	Polyhexanide solution 20%	20A16-F03-3682900	1
Fagron	Polyhexanide solution 20%	20A16-F03368291	1
Fagron	Polyhexanide solution 20%	20A16-F03-368291	24
Fagron	Polyhexanide solution 20%	20A16-F03-368292	10
Fagron	Polyhexanide solution 20%	20A16-F03-368294	3
Fagron	Polyhexanide solution 20%	20A16-F03-368296	25
Fagron	Polyhexanide solution 20%	20A16-F03-3682990/3420	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Polyhexanide solution 20%	20A16-F03-368569	1
Fagron	Polyhexanide solution 20%	20A16-F03-368290	1
Fagron	Polyhexanide solution 20%	20A16-Fo3-368292	1
Fagron	Polyhexanide solution 20%	20A16-F03-368296	1
Fagron	Polyhexanide solution 20%	20A16-F03-368396	1
Fagron	Polyhexanide solution 20%	20A26-F03	2
Fagron	Polyhexanide solution 20%	21H23-F01-379976	1
Fagron	Polyhexanide solution 20%	2215I-03580	1
Fagron	Polyhexanide solution 20%	22D01-F02-382222	3
Fagron	Polyhexanide solution 20%	25021712	1
Fagron	Polyhexanide solution 20%	2516U-03580	1
Fagron	Polyhexanide solution 20%	20A16-F03-368290	1
Fagron	Polyhexanide solution 20%	3018E-03580	1
Fagron	Polyhexanide solution 20%	32289-58-0	1
Fagron	Polyhexanide solution 20%	335336	1
Fagron	Polyhexanide solution 20%	3-36829000	1
Fagron	Polyhexanide solution 20%	368290	1
Fagron	Polyhexanide solution 20%	3714M-03580	1
Fagron	Polyhexanide solution 20%	701823_00004	1
Fagron	Polyhexanide solution 20%	7018230004	2
Fagron	Polyhexanide solution 20%	701823-0004	1
Fagron	Polyhexanide solution 20%	7051803	1
Fagron	Polyhexanide solution 20%	8GR038066	1
Fagron	Polyhexanide solution 20%	A16-F03-3682912	1
Fagron	Polyhexanide solution 20%	F03-3682809	1
Fagron	Polyhexanide solution 20%	F03-3682900	1
Fagron	Polyhexanide solution 20%	F03-3682902	2
Fagron	Polyhexanide solution 20%	F03-3682906	2
Fargo / Gehe	Polyhexanide solution 20%	F03-3682808	1
Fargom	Polyhexanide solution 20%	116B16-B04-320854	1
Fargon/ Gehe	Polyhexanide solution 20%	15H28-B11-312309	1
Fargon/AHC	Polyhexanide solution 20%	18G02-B01-353296	1
Fargon/AHD	Polyhexanide solution 20%	18GR038066	1
Fargon/Gehe	Polyhexanide solution 20%	19D03-B01	1
Fargon/Gehe	Polyhexanide solution 20%	F03-3682901	1
Fargon/Gehe	Polyhexanide solution 20%	F03-3682901	1
Fargon	Polyhexanide solution 20%	16G29-B01-0004	1
Fargon	Polyhexanide solution 20%	16G29-B01-328171	1
Fargon	Polyhexanide solution 20%	20A16-F03-368296	1
Fiebig/Fagon	Polyhexanide solution 20%	19A16-b04-357983	1
Fiebig/Fagon	Polyhexanide solution 20%	20A16-F03-368288	1
Fragon GmbH	Polyhexanide solution 20%	16GR025056	1
Fragon/Noweda	Polyhexanide solution 20%	16G29-B01-328171	1
Fragon/Sanacorp	Polyhexanide solution 20%	20A16-F03-368290	1
Fragon	Polyhexanide solution 20%	12K20-N01	1
GEHE 14.04.2014	Polyhexanide solution 20%	13K29-B30_288934	1
Gehe 16.12.14	Polyhexanide solution 20%	14F25-B06-296292	1
Gehe/Fagaron	Polyhexanide solution 20%	16B16-B04-320854	1
Gehe	Polyhexanide solution 20%	15H28-B11	1
Gehe	Polyhexanide solution 20%	16G29-B01-330629	1
Gehe	Polyhexanide solution 20%	17L14-B02-343990	1
Gehe	Polyhexanide solution 20%	18B16-B10-345748	1
GEHE	Polyhexanide solution 20%	18G02-B01	1
Gehe	Polyhexanide solution 20%	18G02b01353297	1
Gehe	Polyhexanide solution 20%	18G02-B01-353297	1
Gehe	Polyhexanide solution 20%	20A16-F03	2
Gepepharm	Polyhexanide solution 20%	17061709	1
Ichthyol Gesellschaft/AHD	Polyhexanide solution 20%	14F25-B06-296292	1
jenne	Polyhexanide solution 20%	22D01-F02-382222	1
Noveda	Polyhexanide solution 20%	18/18-B05-355791	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Polyhexanide solution 20%	12K20-N01	1
Noweda	Polyhexanide solution 20%	14F25B06305013	1
Noweda	Polyhexanide solution 20%	15H28-B11-312309	2
Noweda	Polyhexanide solution 20%	18J18-B05-355791	1
Noweda	Polyhexanide solution 20%	19A16-B04-359557	1
Noweda	Polyhexanide solution 20%	20A16-F03-368291	1
Noweda	Polyhexanide solution 20%	2OA16-F03-3682809	1
Phagron	Polyhexanide solution 20%	17L14-B02-343990	1
Phoenix	Polyhexanide solution 20%	12K20-N01	1
Phoenix	Polyhexanide solution 20%	16B16-B04	1
Phoenix	Polyhexanide solution 20%	18G02-B01-353297	1
Phoenix	Polyhexanide solution 20%	19D03-B01-360930	1
Phoenix	Polyhexanide solution 20%	20A16-F03-368290	1
Phönix Gotha	Polyhexanide solution 20%	19A16-B04-359557	1
PHÖNIX	Polyhexanide solution 20%	17L14-B02	1
Phönix	Polyhexanide solution 20%	18B16-B10-345748	1
Phönix	Polyhexanide solution 20%	18D09-B01-348160	1
PHÖNIX	Polyhexanide solution 20%	18D09-B01-348160	1
Phönix	Polyhexanide solution 20%	19D03-B01-360930	1
Phönix	Polyhexanide solution 20%	2OA16-F03-368290	1
Phönix	Polyhexanide solution 20%	F03-3682808	1
Phytocomm	Polyhexanide solution 20%	27803278	1
Sanacorp	Polyhexanide solution 20%	14f25-b06-2962291	1
Sanacorp	Polyhexanide solution 20%	14F25-B06-296291	1
Sanacorp	Polyhexanide solution 20%	16B16-B04-318789	1
Sanacorp	Polyhexanide solution 20%	17L14-B02-343990	1
Sanacorp	Polyhexanide solution 20%	18D09-B01-348160	2
Sanacorp	Polyhexanide solution 20%	18G02-B01	1
Sanacorp	Polyhexanide solution 20%	18GR038066	1
Sanacorp	Polyhexanide solution 20%	18GR353621	1
Sanacorp	Polyhexanide solution 20%	18J18-Bo5	1
Sanacorp	Polyhexanide solution 20%	19D03-B01	1
Sanacorp	Polyhexanide solution 20%	19D03-B01-360931	1
Sanacorp	Polyhexanide solution 20%	19GR304768	1
Sanacorp	Polyhexanide solution 20%	20A16-F03	1
Sanacorp	Polyhexanide solution 20%	Fagron	1

- 296 450 spectra from 1324 *Apo-Ident* customers from a total of 52 773 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Polyhexanide solution 20%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Polyhexanide solution 20%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	220	0	68 279
Type B	0	80	0	111 233
Type C	0	991	17	296 450

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The substance/substance group *Polyhexanide solution 20%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.2727 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6875 %)	98.3135 % (> 98.0159 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Polyhexanide solution 20%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Hydrophilic base emulsion (NRF p.25)	18.25	–
Dextrorotary lactic acid 20%	31.76	–
Aluminium acetotartrate solution	33.06	–
Non-ionic hydrous liniment SR/DAC (NRF…	34.63	–
Liquorice juice purified, diluted	34.76	–
Chlorhexidine digluconate solution	38.64	–
Water	39.26	–
Gel basis Audor®	41.83	–
Condurango wine	42.24	–
Chest elixir	43.37	–
Hydrated liniment SR/DAC (NRF p.40)	44.18	–
Glycolic acid 70%	45.08	–
Hydrophilic cream, non-ionic SR (NRF p…	47.17	–
Sodium-(s)-lactate solution 50%	48.51	–
Fortified wine	49.08	–
Hydrophilic cream, non-ionic without p…	49.95	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Polyhexanide solution 20%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31180	31180	0.00	28.46
31571	31180	7.84	29.23
32733	31180	11.93	30.61
34087	31180	4.95	26.16
34846	31180	8.03	30.01

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Polysorbates / Macrogol 20 glycerol monostearate type II**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`10004575-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Polysorbates / Macrogol 20 glycerol monostearate type II; Macrogol 20 glycerol monostearate type II; Macrogol 20 glyceroli monostearas; Polysorbate 20; Polysorbate 60; Polysorbate 80; Polysorbatum 20; Polysorbatum 60; Polysorbatum 80

Special notes

When selecting the *Polysorbates / Macrogol 20 glycerol monostearate type II* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Polysorbates / Macrogol 20 glycerol monostearate type II	26	15	362

Second-stage model

For differentiation of the substance/substance group *Polysorbates / Macrogol 20 glycerol monostearate type II* the following second-stage model is used:

- Submodel 10

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Polysorbates / Macrogol 20 glycerol monostearate type II*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Macrogol 20 glyc...	14033701	31469	60	20140214
Caelo	Macrogol 20 glyc...	162800	33323	40	20161026*
Caelo	Macrogol 20 glyc...	170801	33324	40	20170428*
Caelo	Macrogol 20 glyc...	20000323	35044	40	20200310*
Caelo	Macrogol 20 glyc...	20004413	35257	40	20210226*
Fagron	Macrogol 20 glyc...	13H09-N06	31182	40	1407195
Caelo	Polysorbate 20	14019413	31323	40	AR-15-FG-008174-01
Caelo	Polysorbate 20	14365105	31697	60	20150116
Caelo	Polysorbate 20	182768	34331	40	20180312*
Caelo	Polysorbate 20	190922	34469	40	20190503*
Caelo	Polysorbate 20	192430	34707	40	20191014*
Caelo	Polysorbate 20	21000590	35295	40	20210406*
Caelo	Polysorbate 60	12133619	31033	40	20120531
Caelo	Polysorbate 60	14027102	31324	40	AR-15-FG-008175-01
Caelo	Polysorbate 60	170258	33058	40	20170313*
Caelo	Polysorbate 60	172920	33888	40	20171117*
Caelo	Polysorbate 60	180292	34081	40	20180302*
Caelo	Polysorbate 60	182897	34338	40	20181128*
Caelo	Polysorbate 60	191141	34623	40	20190604*
Caelo	Polysorbate 60	192038	34702	40	20190827*
Caelo	Polysorbate 80	12116009	30893	80	20120427
Caelo	Polysorbate 80	13372015	31325	40	AR-15-FG-008176-01
Caelo	Polysorbate 80	20000727	35015	40	20200408*
Fagron	Polysorbate 80	17A23-B09-331594	33300	40	20170208
Fagron	Polysorbate 80	18H01-B04-357189	34673	40	20180828
Fagron	Polysorbate 80	21E27-T05-090136	35911	40	20210819

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 1120 spectra of 26 reference samples from the substance/substance group *Polysorbates / Macrogol 20 glycerol monostearate type II*. These samples are listed above in the *calibration samples* section. The reference samples come from 26 different batches.

- 67 379 spectra from a total of 1387 batches from further 225 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 740 spectra of 19 reference samples from the substance/substance group *Polysorbates / Macrogol 20 glycerol monostearate type II*.

- Among them are spectra of independent samples from 15 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Macrogol 20 glycerol monoste...	161883	33325	40
Caelo	Macrogol 20 glycerol monoste...	161884	33326	40
Caelo	Macrogol 20 glycerol monoste...	172882	33901	40
Caelo	Macrogol 20 glycerol monoste...	172880	33902	40
Caelo	Macrogol 20 glycerol monoste...	181870	34239	40
Caelo	Macrogol 20 glycerol monoste...	183242	34335	40
Caelo	Polysorbate 20	162335	32330	40
Caelo	Polysorbate 20	172825	33884	40
Caelo	Polysorbate 60	161771	32329	40
Caelo	Polysorbate 60	170999	33322	40
Caelo	Polysorbate 60	19000533	35041	40
Caelo	Polysorbate 60	21002004001	35840	50
Caelo	Polysorbate 80	16260201	33296	40
Caelo	Polysorbate 80	173048	33887	40
Caelo	Polysorbate 80	191639	34624	40
Caelo	Macrogol 20 glycerol monoste...	162800	32702	40
Caelo	Macrogol 20 glycerol monoste...	161883	33722	40
Caelo	Macrogol 20 glycerol monoste...	161884	33723	40
Caelo	Polysorbate 80	12116009	30893†	10

- 110 573 spectra from a total of 2649 batches from further 347 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

†These spectra were recorded from material of the same package as the corresponding calibration spectra (*Type A*). Hence, these spectra are not independent and are not of *Type B*.

- 3020 spectra from 923 *Apo-Ident* customers from 376 batches from the substance/substance group *Polysorbates / Macrogol 20 glycerol monostearate type II*.

- Among them are spectra of independent samples from 360 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Polysorbate 20	14019413	1
10.02.2020 Phoenix	Polysorbate 60	19114102	1
21.03.2017	Polysorbate 20	153233912	1
AHD	Polysorbate 20	15323912	1
AHD	Polysorbate 20	16233506	1
AHD	Polysorbate 20	17021310	1
AHD	Polysorbate 20	17325410	1
Alliance Healthcare	Polysorbate 80	12315308	1
Alliance Healthcare	Polysorbate 20	17325413	1
Alliance Healthcare	Polysorbate 20	19092207	1
Alliance	Polysorbate 20	17021310	1
Alliance	Polysorbate 80	18236805	1
Allianes	Polysorbate 20	14365105	2
Allianz Healthcare	Polysorbate 80	18236813	1
Alte Apotheke	Polysorbate 80	16059402	1
Anzag	Polysorbate 80	1/2454542	2
Anzag	Polysorbate 20	12303006Caelo	1
Anzag	Polysorbate 80	16059402	1
Anzag	Polysorbate 20	16114502	1
Anzag	Polysorbate 20	17325413	1
Anzag	Polysorbate 60	18005907	1
Anzag	Polysorbate 80	18K21-B02-359671	1
Bären Apotheke	Polysorbate 80	16260201	1
Beiersdorf	Polysorbate 80	16059402	1
Berkel AHK	Polysorbate 20	14019418	1
Bionorica/Phönix	Polysorbate 20	17325410	1
Bombastus	Polysorbate 80	11347907	1
Bombastus	Polysorbate 20	13297001	1
Bombastus	Macrogol 20 glycerol monoste…	13H09-N06	1
Bombastus	Polysorbate 20	17325301	1
Bombastus	Macrogol 20 glycerol monoste…	700906	1
Cael Sanacorp 05.02.2016	Polysorbate 20	15323902	1
Caelo	Polysorbate 20		4
Caelo	Polysorbate 20	1000590006	1
Caelo	Polysorbate 80	10235202	1
Caelo	Polysorbate 20	1086517	1
Caelo	Polysorbate 20	11117201	2
Caelo	Polysorbate 20	11117205	2
Caelo	Polysorbate 20	11179506	2
Caelo	Polysorbate 20	11179511	4
Caelo	Polysorbate 80	11179606	1
Caelo	Polysorbate 80	11179618	2
Caelo	Polysorbate 20	11347701	1
Caelo	Polysorbate 20	11347702	1
Caelo	Polysorbate 20	11347707	5
Caelo	Polysorbate 20	11347711	8
Caelo	Polysorbate 20	11347715	6
Caelo	Polysorbate 20	11347719	8
Caelo	Polysorbate 80	11347907	2
Caelo	Polysorbate 80	11347909	1
Caelo	Polysorbate 80	1190318/16260210	1
Caelo	Polysorbate 20	12031605	1
Caelo	Polysorbate 80	12116005	4
Caelo	Polysorbate 80	12116009	8

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Polysorbate 80	12116013	6
Caelo	Polysorbate 80	12116014	1
Caelo	Polysorbate 60	12133602	1
Caelo	Polysorbate 60	12133611	2
Caelo	Polysorbate 80	1220616	1
Caelo	Polysorbate 20	12303006	10
Caelo	Polysorbate 20	12303016	13
Caelo	Polysorbate 80	123125308	1
Caelo	Polysorbate 80	12315305	1
Caelo	Polysorbate 80	12315308	9
Caelo	Polysorbate 80	12315317	10
Caelo	Polysorbate 80	12315324	1
Caelo	Polysorbate 80	12315328	15
Caelo	Macrogol 20 glycerol monoste...	12326201	2
Caelo	Polysorbate 20	13066512	1
Caelo	Polysorbate 20	13086505	3
Caelo	Polysorbate 20	13086509	9
Caelo	Polysorbate 20	13086510	1
Caelo	Polysorbate 20	13086512	14
Caelo	Polysorbate 20	13086517	15
Caelo	Polysorbate 60	13098006	1
Caelo	Polysorbate 80	13152216	15
Caelo	Polysorbate 80	13152218	1
Caelo	Polysorbate 80	13152219	1
Caelo	Polysorbate 80	13152223	11
Caelo	Macrogol 20 glycerol monoste...	13213601	1
Caelo	Macrogol 20 glycerol monoste...	13213602	3
Caelo	Polysorbate 60	13258902	5
Caelo	Polysorbate 20	1329001	1
Caelo	Polysorbate 20	13297001	8
Caelo	Polysorbate 20	13297001-3449311132	1
Caelo	Polysorbate 20	13297005	11
Caelo	Polysorbate 20	13297009	12
Caelo	Polysorbate 20	13297010	18
Caelo	Polysorbate 80	13372012	12
Caelo	Polysorbate 80	13372015	1
Caelo	Polysorbate 20	14019410	11
Caelo	Polysorbate 20	14019413	1
Caelo	Polysorbate 20	14019418	23
Caelo	Polysorbate 60	14027102	1
Caelo	Polysorbate 60	14027103	2
Caelo	Macrogol 20 glycerol monoste...	14033701	2
Caelo	Polysorbate 20	14041503	1
Caelo	Polysorbate 20	1413213	1
Caelo	Polysorbate 80	1419026	1
Caelo	Polysorbate 80	14190306	7
Caelo	Polysorbate 80	14190316	20
Caelo	Polysorbate 80	14190317	1
Caelo	Polysorbate 20	14213211	2
Caelo	Polysorbate 20	14213213	13
Caelo	Macrogol 20 glycerol monoste...	14302001	2
Caelo	Polysorbate 20	14365105	24
Caelo	Polysorbate 20	14365109	28
Caelo	Polysorbate 20	14365116	35
Caelo	Polysorbate 20	1465105	1
Caelo	Polysorbate 20	1465109	1
Caelo	Macrogol 20 glycerol monoste...	15009302	2
Caelo	Macrogol 20 glycerol monoste...	15060303	2
Caelo	Polysorbate 60	15067401	7
Caelo	Polysorbate 60	15067407	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Polysorbate 60	15067408	12
Caelo	Polysorbate 60	15067409	3
Caelo	Polysorbate 80	15104103	11
Caelo	Polysorbate 80	15104112	21
Caelo	Polysorbate 80	15104113	1
Caelo	Polysorbate 80	15104121	17
Caelo	Polysorbate 80	15104126	7
Caelo	Polysorbate 80	15121404	1
Caelo	Polysorbate 20	15159004	3
Caelo	Polysorbate 20	1523902	1
Caelo	Polysorbate 60	15292906	5
Caelo	Polysorbate 20	1532302	1
Caelo	Polysorbate 20	15323902	22
Caelo	Polysorbate 20	15323912	24
Caelo	Polysorbate 20	1532902	2
Caelo	Macrogol 20 glycerol monoste…	15410502	5
Caelo	Macrogol 20 glycerol monoste…	15410503	1
Caelo	Macrogol 20 glycerol monoste…	15410504	4
Caelo	Polysorbate 60	16007302	11
Caelo	Polysorbate 20	16029703	55
Caelo	Polysorbate 20	16029704	1
Caelo	Polysorbate 80	16053402	1
Caelo	Polysorbate 80	16059402	51
Caelo	Polysorbate 80	16059403	1
Caelo	Polysorbate 80	16059408	1
Caelo	Polysorbate 80	1609402	1
Caelo	Polysorbate 20	16114502	9
Caelo	Polysorbate 20	16114503	52
Caelo	Polysorbate 20	16114504	1
Caelo	Polysorbate 80	1612B08327237	1
Caelo	Polysorbate 60	16177104	2
Caelo	Polysorbate 60	16177106	2
Caelo	Macrogol 20 glycerol monoste…	16188302	1
Caelo	Macrogol 20 glycerol monoste…	16188401	11
Caelo	Polysorbate 20	162335	1
Caelo	Polysorbate 20	1623350	1
Caelo	Polysorbate 20	16233500	1
Caelo	Polysorbate 20	16233501	56
Caelo	Polysorbate 20	16233502	1
Caelo	Polysorbate 20	16233506	28
Caelo	Polysorbate 20	162335060	1
Caelo	Polysorbate 80	16260201	37
Caelo	Polysorbate 80	16260202	2
Caelo	Polysorbate 80	16260206	1
Caelo	Polysorbate 80	16260210	27
Caelo	Polysorbate 80	162602210	2
Caelo	Polysorbate 20	170130P/16233501	1
Caelo	Polysorbate 20	17021303	55
Caelo	Polysorbate 20	17021304	1
Caelo	Polysorbate 20	17021307	1
Caelo	Polysorbate 20	17021310	63
Caelo	Polysorbate 20	17021311	9
Caelo	Polysorbate 60	17025804	2
Caelo	Polysorbate 80	17064702	2
Caelo	Polysorbate 80	17064705	33
Caelo	Polysorbate 80	17064706	1
Caelo	Macrogol 20 glycerol monoste…	1708002	1
Caelo	Macrogol 20 glycerol monoste…	17080101	2
Caelo	Macrogol 20 glycerol monoste…	17080102	5
Caelo	Macrogol 20 glycerol monoste…	17080104	8

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Polysorbate 20	1709930	2
Caelo	Polysorbate 80	1709947	1
Caelo	Polysorbate 60	17099901	8
Caelo	Polysorbate 60	17099903	6
Caelo	Polysorbate 60	17099905	9
Caelo	Polysorbate 60	170999903	1
Caelo	Polysorbate 20	17235413	1
Caelo	Polysorbate 20	1725407	1
Caelo	Polysorbate 20	1732510	1
Caelo	Polysorbate 20	17325301	68
Caelo	Polysorbate 20	17325301-20180404Ma	1
Caelo	Polysorbate 20	17325302	1
Caelo	Polysorbate 20	17325407	68
Caelo	Polysorbate 20	17325410	53
Caelo	Polysorbate 20	173254105745	1
Caelo	Polysorbate 20	17325413	57
Caelo	Polysorbate 20	173254413	1
Caelo	Polysorbate 20	173255410	1
Caelo	Polysorbate 20	1735410	1
Caelo	Polysorbate 20	17355301	1
Caelo	Polysorbate 80	17A23-B09	1
Caelo	Polysorbate 60	18005903	2
Caelo	Polysorbate 60	18005907	2
Caelo	Polysorbate 60	18005909	13
Caelo	Polysorbate 60	18005910	1
Caelo	Macrogol 20 glycerol monoste...	18018501	6
Caelo	Macrogol 20 glycerol monoste...	18018505	6
Caelo	Macrogol 20 glycerol monoste...	18018506	1
Caelo	Macrogol 20 glycerol monoste...	18018508	6
Caelo	Polysorbate 80	18045802	3
Caelo	Polysorbate 80	18045803	16
Caelo	Polysorbate 80	18045804	1
Caelo	Polysorbate 80	18045805	1
Caelo	Polysorbate 60	1805909	1
Caelo	Polysorbate 80	18081502	1
Caelo	Polysorbate 80	182368	2
Caelo	Polysorbate 80	18236801	37
Caelo	Polysorbate 80	18236805	13
Caelo	Polysorbate 80	18236808	14
Caelo	Polysorbate 80	18236810	18
Caelo	Polysorbate 80	18236812	1
Caelo	Polysorbate 80	18236813	13
Caelo	Polysorbate 80	18236818	10
Caelo	Polysorbate 80	18236818P-200217-6	1
Caelo	Polysorbate 20	182766810	1
Caelo	Polysorbate 20	18276801	134
Caelo	Polysorbate 20	182768012	1
Caelo	Polysorbate 20	18276802	6
Caelo	Polysorbate 20	18276806	18
Caelo	Polysorbate 20	18276807	61
Caelo	Polysorbate 20	18276808	1
Caelo	Polysorbate 20	18276810	43
Caelo	Polysorbate 20	18276811	1
Caelo	Polysorbate 20	182776806	1
Caelo	Polysorbate 60	18289705	8
Caelo	Macrogol 20 glycerol monoste...	18324202	9
Caelo	Polysorbate 80	18H01-B04	1
Caelo	Polysorbate 20	19021303	1
Caelo	Macrogol 20 glycerol monoste...	19040503	11
Caelo	Polysorbate 20	19071802	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Polysorbate 20	19092203	1
Caelo	Polysorbate 20	19092206	43
Caelo	Polysorbate 20	19092207	74
Caelo	Polysorbate 20	19092208	7
Caelo	Polysorbate 20	19092270	1
Caelo	Polysorbate 60	19114102	7
Caelo	Polysorbate 20	1912M-02525	1
Caelo	Polysorbate 80	191639002	1
Caelo	Polysorbate 80	19163904	31
Caelo	Polysorbate 20	19173801	1
Caelo	Polysorbate 60	192038002	3
Caelo	Polysorbate 20	192430005	20
Caelo	Polysorbate 20	1924300085	1
Caelo	Polysorbate 20	194230005	1
Caelo	Polysorbate 20	200002482005	3
Caelo	Macrogol 20 glycerol monoste...	20000323002	1
Caelo	Macrogol 20 glycerol monoste...	20000323003	13
Caelo	Polysorbate 80	20000727002	8
Caelo	Polysorbate 80	20000727006	7
Caelo	Polysorbate 60	20001789003	4
Caelo	Polysorbate 20	20002482002	2
Caelo	Polysorbate 20	20002482005	52
Caelo	Polysorbate 20	20002891001	1
Caelo	Polysorbate 20	20002891002	33
Caelo	Polysorbate 20	20002891003	21
Caelo	Polysorbate 20	20002891003/25032101	1
Caelo	Polysorbate 20	20002891006	2
Caelo	Macrogol 20 glycerol monoste...	2000323003	1
Caelo	Polysorbate 80	20003729005	8
Caelo	Polysorbate 80	20003729010	4
Caelo	Polysorbate 60	20004253001	7
Caelo	Macrogol 20 glycerol monoste...	20004413003	3
Caelo	Polysorbate 20	2000590006	1
Caelo	Polysorbate 20	2002482005	1
Caelo	Polysorbate 20	20210312-1	1
Caelo	Polysorbate 80	20210312-2	1
Caelo	Polysorbate 20	20220312-1	1
Caelo	Polysorbate 20	210000590006	1
Caelo	Polysorbate 20	21000590002	4
Caelo	Polysorbate 20	21000590006	25
Caelo	Polysorbate 20	21000590008	1
Caelo	Polysorbate 20	21000590009	14
Caelo	Macrogol 20 glycerol monoste...	21001961003	2
Caelo	Polysorbate 20	21002070002	20
Caelo	Polysorbate 60	21003152003	1
Caelo	Polysorbate 60	21003152006	1
Caelo	Polysorbate 20	21003610004	2
Caelo	Polysorbate 20	21003610008	1
Caelo	Polysorbate 80	21061301	1
Caelo	Polysorbate 20	2112E-02525	1
Caelo	Polysorbate 20	220510(21002070002)	1
Caelo	Polysorbate 20	2215I-02525	1
Caelo	Polysorbate 20	24061713	1
Caelo	Polysorbate 20	25(17021303)	1
Caelo	Polysorbate 20	25041806	1
Caelo	Polysorbate 80	25062015C	1
Caelo	Polysorbate 20	26(18276801)	1
Caelo	Polysorbate 20	2616A-02525	1
Caelo	Polysorbate 20	27(20002482005)	1
Caelo	Polysorbate 20	2704212525	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Polysorbate 80	27111308	1
Caelo	Polysorbate 20	2713E2525	1
Caelo	Polysorbate 80	2772013	1
Caelo	Polysorbate 20	2805	1
Caelo	Polysorbate 80	2821	1
Caelo	Polysorbate 80	2915A-02527	1
Caelo	Polysorbate 20	2918E-02525	1
Caelo	Macrogol 20 glycerol monoste...	3042223	1
Caelo	Polysorbate 20	3114I-02525	1
Caelo	Polysorbate 80	3212I-02527	1
Caelo	Polysorbate 80	3213E2527	1
Caelo	Polysorbate 20	3217M-02525	1
Caelo	Polysorbate 80	3327	1
Caelo	Polysorbate 20	3478	2
Caelo	Polysorbate 80	42175394	2
Caelo	Polysorbate 80	4512A-02527	1
Caelo	Polysorbate 80	4513M	1
Caelo	Polysorbate 20	4612A-02525	1
Caelo	Polysorbate 20	5/AKD7	1
Caelo	Polysorbate 80	5015A-02527	1
Caelo	Polysorbate 80	5116Q-02527	1
Caelo	Polysorbate 80	515I-02527	1
Caelo	Polysorbate 80	5218Q-02527	2
Caelo	Polysorbate 20	611poly	1
Caelo	Polysorbate 20	70879397	1
Caelo	Polysorbate 20	714E-02525	1
Caelo	Polysorbate 20	80479168	1
Caelo	Polysorbate 20	C1300	1
Caelo	Macrogol 20 glycerol monoste...	ES62A93607	1
Caelo	Polysorbate 80	P-300319-3	1
Caeol/Noweda	Polysorbate 20	17325413	1
Caeolo/Gehe	Polysorbate 20	16233501	1
Caeolo/Noweda	Polysorbate 20	17325407	1
Caeolo	Polysorbate 20	17325301	1
Caesar & Loretz GmbH / ...	Polysorbate 20	19092206	1
Caesar & Loretz GmbH / ...	Polysorbate 60	17099905	1
Caesar & Loretz GmbH Hi...	Polysorbate 20	15323902	1
Caesar & Loretz GmbH Sa...	Polysorbate 20	20002482005	1
Caesar & Loretz GmbH/ AHD	Polysorbate 20	18276807	1
Caesar & Loretz GmbH/ F...	Polysorbate 20	20002891002	1
Caesar & Loretz GmbH/ F...	Polysorbate 20	21003610004	1
Caesar & Loretz GmbH/ G...	Polysorbate 80	19163904	1
Caesar & Loretz GmbH/ G...	Polysorbate 80	20003729010	1
Caesar & Loretz GmbH/ P...	Polysorbate 20	18276810	1
Caesar & Loretz GmbH/Al...	Polysorbate 80	20003729010	1
Caesar & Loretz GmbH/An...	Polysorbate 80	19163904	1
Caesar & Loretz GmbH/Fi...	Polysorbate 20	18276801	1
Caesar & Loretz GmbH/Fi...	Polysorbate 20	18276807	1
Caesar & Loretz GmbH/fi...	Macrogol 20 glycerol monoste...	19040503	1
Caesar & Loretz GmbH/Fi...	Polysorbate 60	19114102	1
Caesar & Loretz GmbH/Fi...	Polysorbate 80	20000727006	1
Caesar & Loretz GmbH/Gehe	Polysorbate 60	18289705	1
Caesar & Loretz GmbH/Gehe	Polysorbate 20	19092207	1
Caesar & Loretz GmbH/Gehe	Polysorbate 20	192430005	1
Caesar & Loretz GmbH/Gehe	Polysorbate 20	20002891003	2
Caesar & Loretz GmbH/Gehe	Polysorbate 80	20003729005	1
Caesar & Loretz GmbH/Gehe	Polysorbate 80	20003729010	1
Caesar & Loretz GmbH/Gehe	Polysorbate 20	21000590009	2
Caesar & Loretz GmbH/Gehe	Polysorbate 60	21003152003	1
Caesar & Loretz GmbH/Ge...	Polysorbate 20	20002482005	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Je…	Polysorbate 20	18276807	1
Caesar & Loretz GmbH/Je…	Polysorbate 20	20002891002	1
Caesar & Loretz GmbH/Je…	Polysorbate 60	20004253001	1
Caesar & Loretz GmbH/Je…	Polysorbate 20	21000590009	1
Caesar & Loretz GmbH/Kehr	Polysorbate 20	19092206	1
Caesar & Loretz GmbH/Kehr	Polysorbate 20	192430005	1
Caesar & Loretz GmbH/No…	Polysorbate 80	18236818	1
Caesar & Loretz GmbH/No…	Polysorbate 20	18276801	1
Caesar & Loretz GmbH/No…	Polysorbate 20	19092207	1
Caesar & Loretz GmbH/No…	Macrogol 20 glycerol monoste…	20000323003	1
Caesar & Loretz GmbH/No…	Polysorbate 20	20002482005	1
Caesar & Loretz GmbH/Phoe	Polysorbate 80	20000727006	1
Caesar & Loretz GmbH/Ph…	Polysorbate 60	19114102	1
Caesar & Loretz GmbH/Ph…	Polysorbate 80	20003729005	1
Caesar & Loretz GmbH/Ph…	Polysorbate 20	18276810	2
Caesar & Loretz GmbH/Ph…	Polysorbate 20	19092207	2
Caesar & Loretz GmbH/Ph…	Polysorbate 20	192430005	2
Caesar & Loretz GmbH/Ph…	Polysorbate 80	20003729005	1
Caesar & Loretz GmbH/Ph…	Polysorbate 20	21002070002	1
Caesar & Loretz GmbH/Sana	Polysorbate 80	20000727006	1
Caesar & Loretz GmbH/Sa…	Polysorbate 80	18236810	2
Caesar & Loretz GmbH/Sa…	Polysorbate 20	18276810	1
Caesar & Loretz GmbH/Sa…	Polysorbate 80	19163904	2
Caesar & Loretz GmbH/Sa…	Polysorbate 20	20002891002	1
Caesar & Loretz GmbH/Sa…	Polysorbate 20	20002891003	1
Caesar & Loretz GmbH/Sa…	Polysorbate 20	21000590002	1
Caesar & Loretz GmbH	Polysorbate 20	16233501	1
Caesar & Loretz GmbH	Polysorbate 20	17325410	1
Caesar & Loretz GmbH	Macrogol 20 glycerol monoste…	18018501	1
Caesar & Loretz GmbH	Polysorbate 60	18029208	3
Caesar & Loretz GmbH	Polysorbate 80	18045803	2
Caesar & Loretz GmbH	Polysorbate 20	1819Q-02525	1
Caesar & Loretz GmbH	Polysorbate 80	18236801	3
Caesar & Loretz GmbH	Polysorbate 80	18236805	5
Caesar & Loretz GmbH	Polysorbate 80	18236808	3
Caesar & Loretz GmbH	Polysorbate 80	18236810	3
Caesar & Loretz GmbH	Polysorbate 80	18236811	2
Caesar & Loretz GmbH	Polysorbate 80	18236813	3
Caesar & Loretz GmbH	Polysorbate 80	18236818	1
Caesar & Loretz GmbH	Polysorbate 20	18276801	13
Caesar & Loretz GmbH	Polysorbate 20	18276802	1
Caesar & Loretz GmbH	Polysorbate 20	18276806	2
Caesar & Loretz GmbH	Polysorbate 20	18276807	19
Caesar & Loretz GmbH	Polysorbate 20	18276810	11
Caesar & Loretz GmbH	Polysorbate 60	18289705	1
Caesar & Loretz GmbH	Macrogol 20 glycerol monoste…	18324202	2
Caesar & Loretz GmbH	Macrogol 20 glycerol monoste…	19040503	5
Caesar & Loretz GmbH	Polysorbate 20	19092206	10
Caesar & Loretz GmbH	Polysorbate 20	19092207	15
Caesar & Loretz GmbH	Polysorbate 60	19114102	2
Caesar & Loretz GmbH	Polysorbate 80	191639002	1
Caesar & Loretz GmbH	Polysorbate 80	19163901	4
Caesar & Loretz GmbH	Polysorbate 80	19163902	5
Caesar & Loretz GmbH	Polysorbate 80	19163904	9
Caesar & Loretz GmbH	Polysorbate 60	192038002	2
Caesar & Loretz GmbH	Polysorbate 20	192430005	17
Caesar & Loretz GmbH	Polysorbate 20	200002482005	1
Caesar & Loretz GmbH	Macrogol 20 glycerol monoste…	20000323003	2
Caesar & Loretz GmbH	Polysorbate 80	20000727002	4
Caesar & Loretz GmbH	Polysorbate 80	20000727003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Polysorbate 80	20000727004	1
Caesar & Loretz GmbH	Polysorbate 80	20000727006	3
Caesar & Loretz GmbH	Polysorbate 60	20001789003	3
Caesar & Loretz GmbH	Polysorbate 20	20002482005	13
Caesar & Loretz GmbH	Polysorbate 20	20002891002	9
Caesar & Loretz GmbH	Polysorbate 20	20002891003	10
Caesar & Loretz GmbH	Polysorbate 80	20003729005	6
Caesar & Loretz GmbH	Polysorbate 60	20004253001	1
Caesar & Loretz GmbH	Macrogol 20 glycerol monoste...	20004413003	1
Caesar & Loretz GmbH	Polysorbate 20	21000590002	4
Caesar & Loretz GmbH	Polysorbate 20	21000590006	13
Caesar & Loretz GmbH	Polysorbate 20	21000590009	1
Caesar & Loretz GmbH	Macrogol 20 glycerol monoste...	21001961003	1
Caesar & Loretz GmbH	Polysorbate 20	21002070002	7
Caesar & Loretz GmbH	Polysorbate 60	21003152006	2
Caesar & Loretz GmbH	Polysorbate 20	21003610004	1
Caesar & Loretz GmbHGehe	Polysorbate 20	18276807	1
Caesar & Loretz GmbHNow...	Polysorbate 20	20002891003	1
Caesar & Loretz Hilden	Polysorbate 20	18276810	1
Caesar & Loretz/Geilenk...	Polysorbate 80	18236805	1
Caesar & Loretz/Noweda	Polysorbate 80	16260201	1
Caesar & Loretz	Polysorbate 20	17325413	1
Caesar Loretz	Polysorbate 20	192430005	1
Caesar&Lorenz/Noweda	Polysorbate 20	17325413	1
Caesar&Loretz GmbH	Polysorbate 60	15067409	1
Caesar&Loretz GmbH	Polysorbate 60	21002004001	1
Caleo/ Noweda	Polysorbate 80	16059402	1
Caolo- Noweda	Polysorbate 20	16029703	1
Carlo/Gehe/6,65	Polysorbate 60	18289705	1
cawlo	Polysorbate 20	19092207	1
Cealo/AHD	Polysorbate 80	16059402	1
Cealo/Anzag	Polysorbate 20	18276810	1
Cealo/GEHE	Polysorbate 20	18276801	1
Cealo/Gehe	Polysorbate 20	192430005	1
Cealo/Phoenix	Polysorbate 20	19092207	1
Cealo/Sanacorp	Polysorbate 80	16260210	1
Cealo	Polysorbate 20	14019418	1
Cealo	Polysorbate 60	16007302	1
Cealo	Polysorbate 80	16260210	1
Cealo	Polysorbate 80	18236801	2
Celo/Noweda	Polysorbate 80	17064705	1
celo	Polysorbate 20	21000590006	1
Devesa/ Phönix	Polysorbate 80	14K27-Bo1-307106	1
Dr. Wolff	Polysorbate 20	17021303	1
Ebert u. Jacobi 24.06...	Polysorbate 80	15104112	1
Ebert-Jacobi	Polysorbate 60	1617106	1
Eurho Phönix	Polysorbate 20	18276806	1
EuRho	Polysorbate 20	14019410	1
EuRho	Polysorbate 20	18276801	1
Euro OTC	Polysorbate 20	13297009	1
Euro OTC	Polysorbate 20	13297010	1
Euro OTC	Polysorbate 20	14213213	1
Euro OTC	Macrogol 20 glycerol monoste...	15410502	1
Euro OTC	Polysorbate 20	16029703	2
Euro OTC	Polysorbate 80	16059402	1
Euro OTC	Polysorbate 80	18236808	1
Euro OTC	Polysorbate 20	18276801	1
Euro OTC	Polysorbate 20	18276806	2
euro//Noweda	Polysorbate 20	17325413	1
Fa. Croda	Polysorbate 60	22004	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagro/Phönix	Polysorbate 80	14C24-B07-296371	1
Fagron	Polysorbate 20	11I15-N13	1
Fagron	Polysorbate 80	11L22-N12	1
Fagron	Polysorbate 80	12D02-N02	1
Fagron	Macrogol 20 glycerol monoste…	12H23-N03	4
Fagron	Polysorbate 80	12K05-N04	4
Fagron	Polysorbate 80	13A10-N03	2
Fagron	Polysorbate 80	13C19N01	1
Fagron	Polysorbate 80	13C19-N01	1
Fagron	Macrogol 20 glycerol monoste…	13H09-N06	5
Fagron	Polysorbate 20	13J18-B02	1
Fagron	Polysorbate 20	13J18-B02-287378	4
Fagron	Polysorbate 20	14365105	1
Fagron	Polysorbate 20	14A23-B01	1
Fagron	Polysorbate 20	14A23-B01-294167	1
Fagron	Polysorbate 80	14C24-B07	1
Fagron	Polysorbate 80	14C24-B07-296371	3
Fagron	Polysorbate 80	14K27-B01-307106	2
Fagron	Polysorbate 80	16/12-B08	1
Fagron	Polysorbate 80	16/12-B08-32727237	1
Fagron	Polysorbate 20	16029703	1
Fagron	Polysorbate 80	16059402	1
Fagron	Polysorbate 20	16114502	2
Fagron	Polysorbate 80	16B17-B09-322541	1
Fagron	Polysorbate 80	16I12-B02-327237	1
Fagron	Polysorbate 20	17021311	1
Fagron	Polysorbate 80	17A23-B09-334347	1
Fagron	Polysorbate 80	18/H1-B04-354550	1
Fagron	Polysorbate 80	18236802	2
Fagron	Polysorbate 80	18B07-B07	1
Fagron	Polysorbate 80	18B07-B07-346922	1
Fagron	Polysorbate 80	18B17-B07-346922	1
Fagron	Polysorbate 80	18H01-B04	1
Fagron	Polysorbate 80	18H01-B04-352186	1
Fagron	Polysorbate 80	18H01-B04-354550	1
Fagron	Polysorbate 80	18H01-B04-357189	1
Fagron	Polysorbate 80	18K21-B02-359671	5
Fagron	Polysorbate 80	21E27-T05-090136	2
Fagron	Polysorbate 80	226953-0002	1
Fagron	Polysorbate 20	25092014A	1
Fagron	Polysorbate 80	808ND3713	1
Fagron	Polysorbate 80	813I-02527	1
Fagron	Polysorbate 80	908ND3714	2
Fagron	Macrogol 20 glycerol monoste…	ES61A85388	1
Fargon/Kehr	Polysorbate 80	14K27-B01-307106	1
Fargon	Polysorbate 80	10114NO7	1
Fiebig	Polysorbate 80	17064705	1
Fiebig	Polysorbate 20	17325410	2
Fiebig	Polysorbate 20	17325413	1
Fiebig	Polysorbate 80	18236808	1
Fiebig	Polysorbate 20	18276807	1
Fiebig	Polysorbate 80	20000727002	1
Fiebig	Polysorbate 60	20001789003	1
Gehe 01.07.2014	Polysorbate 80	13372015	1
gehe 28.12.2013	Polysorbate 80	13152216	3
Gehe am 06.02.2014	Polysorbate 60	13258902	1
Gehe/Cealo	Polysorbate 20	21000590009	1
Gehe	Polysorbate 80	12K05-N04	1
GEHE	Polysorbate 20	13086505	1
Gehe	Polysorbate 60	14027103	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Polysorbate 80	14190316	1
Gehe	Polysorbate 20	14365116	1
Gehe	Polysorbate 60	15067407	1
Gehe	Polysorbate 60	15067409	1
Gehe	Polysorbate 80	15104103	1
Gehe	Polysorbate 80	15104111	1
Gehe	Polysorbate 20	15323902	1
Gehe	Polysorbate 20	16114502	1
Gehe	Polysorbate 80	1612-B08-327237	1
Gehe	Polysorbate 60	16177104	1
Gehe	Polysorbate 20	162334501	1
Gehe	Polysorbate 20	16233501	1
Gehe	Polysorbate 80	16260201	1
Gehe	Polysorbate 80	16260210	1
GEHE	Polysorbate 80	16B17-B09	1
Gehe	Polysorbate 80	17064705	1
Gehe	Polysorbate 20	17325301	1
Gehe	Polysorbate 20	17325407	3
GEHE	Polysorbate 20	17325407	1
Gehe	Polysorbate 20	17325410	1
Gehe	Polysorbate 20	17325413	1
GEHE	Polysorbate 20	18276801	1
Gehe	Polysorbate 20	18276806	1
Gehe	Polysorbate 20	18276810	3
Gehe	Polysorbate 60	18289705	1
Gehe	Macrogol 20 glycerol monoste...	18324202	2
gehe	Polysorbate 80	18h01-b04-357189	1
Gehe	Polysorbate 80	18H01-B04-357189	2
Gehe	Macrogol 20 glycerol monoste...	19040503	1
Gehe	Polysorbate 20	192430005	1
Gehe	Macrogol 20 glycerol monoste...	200000323003	1
Gehe	Polysorbate 20	21002070002	1
Hedinger	Polysorbate 80	18236805	2
Henry Lamotte / Gehe	Polysorbate 80	18236805	1
Ichthyol /Anzag	Polysorbate 80	20(18236808)	1
ICHTHYOL/ahp	Polysorbate 80	14190310	1
Infectopharm / Noweda	Polysorbate 20	17325301	1
INTERN-DROGEN	Polysorbate 20	21002070002	2
Jenne	Polysorbate 20	17021310	1
Kehr	Polysorbate 20	17021303	1
Kehr	Polysorbate 20	17325407	1
Kehr	Polysorbate 20	17325413	2
Kögl	Polysorbate 80	1700293	2
Krieger	Polysorbate 80	131522232x	1
L10	Polysorbate 20	17021303	1
L12	Polysorbate 80	16260201	1
L12	Polysorbate 20	17325410	1
Lamotte/Alliance	Polysorbate 20	15323912	1
Nachprüfung 3008	Polysorbate 80	13152223	1
Nachprüfung	Polysorbate 20	111111	1
Nachprüfung	Polysorbate 20	123456	1
Nachprüfung	Polysorbate 20	AP201218-09	1
NOW	Polysorbate 80	15104121	1
noweda/anzag	Polysorbate 80	18236808	1
Noweda	Polysorbate 20	11111111	1
Noweda	Polysorbate 20	12303016	1
Noweda	Polysorbate 20	15323902	1
Noweda	Polysorbate 20	16233501	2
Noweda	Polysorbate 20	16233506	1
Noweda	Polysorbate 80	16260210	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Polysorbate 60	17099905	2
Noweda	Polysorbate 20	17325301	1
Noweda	Polysorbate 80	18236801	1
Noweda	Polysorbate 80	18236818	1
Noweda	Polysorbate 20	18276801	1
Noweda	Polysorbate 20	18276810	1
Noweda	Polysorbate 60	18289705	1
Noweda	Polysorbate 20	19092207	2
Noweda	Polysorbate 20	19092208	1
Noweda	Polysorbate 20	20002891001	1
Noweda	Polysorbate 20	20002891003	1
Noweda	Polysorbate 20	21002070002	1
Phoenix 30.01.2019	Polysorbate 20	18276801	1
Phoenix	Polysorbate 80	12116005	1
Phoenix	Polysorbate 20	13086517	1
Phoenix	Polysorbate 20	16233501	1
Phoenix	Polysorbate 20	17021303	2
Phoenix	Polysorbate 20	18276807	2
Phoenix	Polysorbate 20	18276810	2
Phoenix	Polysorbate 80	20003729005	1
Phoenix	Polysorbate 80	3079	1
Phoenix	Polysorbate 20	3095	1
Phoenix	Polysorbate 20	3380	1
Phönix Gotha	Polysorbate 20	11347701	1
Phönix Gotha	Polysorbate 20	13297005	1
Phönix Gotha	Polysorbate 20	14365116	1
Phönix	Polysorbate 20	14019410	2
Phönix	Polysorbate 20	14365116	1
Phönix	Polysorbate 20	16233501	1
Phönix	Polysorbate 20	17021310	1
Phönix	Polysorbate 80	17064705	1
Phönix	Polysorbate 20	17325407	1
Phönix	Polysorbate 20	1735301	1
PHÖNIX	Polysorbate 80	18045803	2
Phönix	Polysorbate 80	18236801	1
Phönix	Polysorbate 20	20002482005	1
PHÖNIX	Polysorbate 20	200029100	1
Phönix	Polysorbate 20	21000590009	2
Roth	Polysorbate 80	241310140	2
Roth	Polysorbate 80	501313056	1
Sana	Polysorbate 20	21002070002	1
Sanacorp, 16.08.2016, 4…	Polysorbate 20	16114502	1
Sanacorp, 4,52, 18.1.17	Polysorbate 80	16059402	1
Sanacorp	Polysorbate 20		1
Sanacorp	Polysorbate 20	11347711	1
Sanacorp	Polysorbate 20	12303006	1
Sanacorp	Polysorbate 20	12345	1
Sanacorp	Polysorbate 20	13086509	2
Sanacorp	Polysorbate 20	13086517	1
Sanacorp	Polysorbate 20	13297005	1
Sanacorp	Polysorbate 20	14019410	2
Sanacorp	Polysorbate 20	15323902	1
Sanacorp	Polysorbate 20	15323912	1
Sanacorp	Polysorbate 20	16114503	1
Sanacorp	Polysorbate 20	17021303	2
Sanacorp	Polysorbate 80	17064706	2
Sanacorp	Polysorbate 60	17099905	1
Sanacorp	Polysorbate 20	17325412	1
Sanacorp	Polysorbate 20	17325413	2
Sanacorp	Polysorbate 60	18005909	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Polysorbate 80	18045804	1
Sanacorp	Polysorbate 20	1827680	1
Sanacorp	Macrogol 20 glycerol monoste…	21001961003	1
Sanacorp	Polysorbate 20	4/AKD1	1
Sanacorp	Polysorbate 80	7/AKD20	1
VDL 17.04.14	Polysorbate 80		1
VDL Nachliefer; 2.7.15;…	Polysorbate 80	15104103	1
VDL	Polysorbate 20	11347707	1
VDL	Polysorbate 20	13297005	1
VDL;4,39EUR;23.03.15	Polysorbate 20	14365105	1
WE:31.03.2016 Sanacorp	Polysorbate 20	15323902	2

- 294 438 spectra from 1324 *Apo-Ident* customers from a total of 52 622 batches from a further 340 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Polysorbates / Macrogol 20 glycerol monostearate type II* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Polysorbates / Macrogol 20 glycerol monostearate type II* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	1120	0	67 379
Type B	0	740	0	110 573
Type C	0	3004	16	294 438

The substance/substance group *Polysorbates / Macrogol 20 glycerol monostearate type II* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.4643 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.1892 %)
Type C	100.0000 % (> 99.6875 %)	99.4702 % (> 99.3709 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.

Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Polysorbates / Macrogol 20 glycerol monostearate type II* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Macrogolglycerol hydroxystearate 40	8.89	21.73
Macrogolglycerol ricinoleate	11.05	14.80
Macrogol 8 stereate type I	13.77	21.04
Cetiol® HE	17.36	–
Lauromacrogol 400	18.21	21.20
Macrogol ointment	18.29	–
Macrogol 4 lauryl ether	36.70	50.34
Macrogols 400	46.78	–
Macrogols 300	50.53	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Polysorbates / Macrogol 20 glycerol monostearate type II* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30893	35015	3.08	14.69
31033	34623	1.24	15.20
31182	31182	0.00	21.62
31323	31323	0.00	34.83
31324	31324	0.00	17.79
31325	31325	0.00	16.43
31469	31182	4.12	20.78
31697	35295	3.60	30.33
33058	33058	0.00	26.47
33300	31325	5.96	14.73
33323	33323	0.00	27.65
33324	33324	0.00	29.05
33888	33888	0.00	29.25
34081	34081	0.00	24.39
34331	34331	0.00	34.74
34338	34338	0.00	15.84
34469	34469	0.00	35.25
34623	34623	0.00	15.78
34673	31325	4.79	16.98
34702	34702	0.00	23.02
34707	34707	0.00	31.67

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
35015	35015	0.00	18.11
35044	35044	0.00	25.40
35257	35257	0.00	19.14
35295	35295	0.00	36.30
35911	35015	5.82	20.39

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Potash soap DAC**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30987-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Potash soap DAC; Sapo kalinus DAC

Special notes

When selecting the *Potash soap DAC* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Potash soap DAC	12	20	87

Second-stage model

For differentiation of the substance/substance group *Potash soap DAC* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Potash soap DAC*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Potash soap DAC	13008101	30987	40	1402565
Caelo	Potash soap DAC	14143401	31480	40	20140520
Caelo	Potash soap DAC	14240801	31561	60	20140815
Caelo	Potash soap DAC	14289101	31650	60	20141017
Caelo	Potash soap DAC	160908	32392	40	20160606*
Caelo	Potash soap DAC	160909	32393	40	20160606*
Caelo	Potash soap DAC	160910	32394	40	20160606*
Caelo	Potash soap DAC	171575	33408	40	20170620*
Caelo	Potash soap DAC	170461	33409	40	20170620*
Caelo	Potash soap DAC	170462	33410	40	20170620*
Caelo	Potash soap DAC	21003122	36015	40	20211118*
Caelo	Potash soap DAC	22000077	36019	40	20220128*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 520 spectra of 12 reference samples from the substance/substance group *Potash soap DAC*. These samples are listed above in the *calibration samples* section. The reference samples come from 12 different batches.
- 67 979 spectra from a total of 1401 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples:

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 690 spectra of 20 reference samples from the substance/substance group *Potash soap DAC*.
- Among them are spectra of independent samples from 20 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Potash soap DAC	13322201	31125	40
Caelo	Potash soap DAC	173023	34016	40
Caelo	Potash soap DAC	180707	34149	40
Caelo	Potash soap DAC	190048	34528	40
Caelo	Potash soap DAC	190049	34529	40
Caelo	Potash soap DAC	190050	34530	40
Caelo	Potash soap DAC	19000483	34985	40
Caelo	Potash soap DAC	20003353	35160	40
Caelo	Potash soap DAC	21001021	35320	40
Caelo	Potash soap DAC	21001022	35321	40
Caelo	Potash soap DAC	21001023	35322	40
Caelo	Potash soap DAC	21002108	35618	50
Caelo	Potash soap DAC	21002109	35619	50
Caelo	Potash soap DAC	21002110	35620	50
Caelo	Potash soap DAC	21002111	35621	50
Caelo	Potash soap DAC	21003123	36016	10
Caelo	Potash soap DAC	21003124	36017	10
Caelo	Potash soap DAC	21003125	36018	10
Caelo	Potash soap DAC	22000078	36020	10
Caelo	Potash soap DAC	22000079	36021	10

- 110 623 spectra from a total of 2646 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 254 spectra from 103 *Apo-Ident* customers from 89 batches from the substance/substance group *Potash soap DAC*.
- Among them are spectra of independent samples from 87 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Potash soap DAC	19062201	1
Caelo	Potash soap DAC	1(20003353001)	1
Caelo	Potash soap DAC	11198901	1
Caelo	Potash soap DAC	11276401	1
Caelo	Potash soap DAC	12060401	1
Caelo	Potash soap DAC	12060701	1
Caelo	Potash soap DAC	13161401	1
Caelo	Potash soap DAC	13161901	2
Caelo	Potash soap DAC	13322201	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Potash soap DAC	13322401	1
Caelo	Potash soap DAC	13322601	1
Caelo	Potash soap DAC	14032801	1
Caelo	Potash soap DAC	14032901	2
Caelo	Potash soap DAC	14033001	1
Caelo	Potash soap DAC	14143601	1
Caelo	Potash soap DAC	14240701	1
Caelo	Potash soap DAC	14240901	1
Caelo	Potash soap DAC	14241001	2
Caelo	Potash soap DAC	14241101	2
Caelo	Potash soap DAC	14289101	2
Caelo	Potash soap DAC	14289201	2
Caelo	Potash soap DAC	15/134/KS	1
Caelo	Potash soap DAC	15181701	1
Caelo	Potash soap DAC	15182001	1
Caelo	Potash soap DAC	15240401	2
Caelo	Potash soap DAC	15240501	4
Caelo	Potash soap DAC	15435201	2
Caelo	Potash soap DAC	15435301	1
Caelo	Potash soap DAC	16090901	1
Caelo	Potash soap DAC	16091001	1
Caelo	Potash soap DAC	16091101	1
Caelo	Potash soap DAC	16091201	1
Caelo	Potash soap DAC	16256801	1
Caelo	Potash soap DAC	16256901	3
Caelo	Potash soap DAC	16257001	1
Caelo	Potash soap DAC	17045801	5
Caelo	Potash soap DAC	17046001	1
Caelo	Potash soap DAC	17046101	1
Caelo	Potash soap DAC	17046201	3
Caelo	Potash soap DAC	17157501	2
Caelo	Potash soap DAC	17221701	2
Caelo	Potash soap DAC	17221901	3
Caelo	Potash soap DAC	17302101	1
Caelo	Potash soap DAC	17302201	3
Caelo	Potash soap DAC	18060501	4
Caelo	Potash soap DAC	18070801	3
Caelo	Potash soap DAC	18071001	1
Caelo	Potash soap DAC	18211301	1
Caelo	Potash soap DAC	18211401	1
Caelo	Potash soap DAC	18211402	1
Caelo	Potash soap DAC	18211501	1
Caelo	Potash soap DAC	19000482001	5
Caelo	Potash soap DAC	19000483001	4
Caelo	Potash soap DAC	190005001	1
Caelo	Potash soap DAC	19004901	1
Caelo	Potash soap DAC	19005001	1
Caelo	Potash soap DAC	19062201	4
Caelo	Potash soap DAC	19062301	2
Caelo	Potash soap DAC	19062601	1
Caelo	Potash soap DAC	19159101	4
Caelo	Potash soap DAC	19159201	6
Caelo	Potash soap DAC	19159301	9
Caelo	Potash soap DAC	19210901	7
Caelo	Potash soap DAC	19211101	3
Caelo	Potash soap DAC	192733001	3
Caelo	Potash soap DAC	200003980001	1
Caelo	Potash soap DAC	20001210001	3
Caelo	Potash soap DAC	20001212001	1
Caelo	Potash soap DAC	20001214001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Potash soap DAC	20001215001	3
Caelo	Potash soap DAC	20002380001	6
Caelo	Potash soap DAC	20002381001	3
Caelo	Potash soap DAC	20002382002	2
Caelo	Potash soap DAC	20002384001	7
Caelo	Potash soap DAC	20003353001	3
Caelo	Potash soap DAC	20003355001	4
Caelo	Potash soap DAC	20003357001	3
Caelo	Potash soap DAC	20003980001	2
Caelo	Potash soap DAC	20003995001	1
Caelo	Potash soap DAC	20004297001	3
Caelo	Potash soap DAC	2000604297001	1
Caelo	Potash soap DAC	210002110002	1
Caelo	Potash soap DAC	21001022001	5
Caelo	Potash soap DAC	21001023001	2
Caelo	Potash soap DAC	21002108001	8
Caelo	Potash soap DAC	21002109001	1
Caelo	Potash soap DAC	21003125001	8
Caesar & Loretz GmbH / ...	Potash soap DAC	18211501	1
Caesar & Loretz GmbH / ...	Potash soap DAC	19000482001	2
Caesar & Loretz GmbH / ...	Potash soap DAC	19062601	1
Caesar & Loretz GmbH / ...	Potash soap DAC	19211101	1
Caesar & Loretz GmbH / ...	Potash soap DAC	19004901	2
Caesar & Loretz GmbH/Gehe	Potash soap DAC	19062301	1
Caesar & Loretz GmbH/Gehe	Potash soap DAC	20001210001	1
Caesar & Loretz GmbH/Je...	Potash soap DAC	19000483001	2
Caesar & Loretz GmbH/Je...	Potash soap DAC	19159201	1
Caesar & Loretz GmbH/Ph...	Potash soap DAC	19210901	2
Caesar & Loretz GmbH/Ph...	Potash soap DAC	20003353001	1
Caesar & Loretz GmbH/Ph...	Potash soap DAC	21002111001	1
Caesar & Loretz GmbH/Sa...	Potash soap DAC	19159201	1
Caesar & Loretz GmbH/Sa...	Potash soap DAC	20003355001	1
Caesar & Loretz GmbH	Potash soap DAC	18211301	1
Caesar & Loretz GmbH	Potash soap DAC	19000482001	1
Caesar & Loretz GmbH	Potash soap DAC	19000483001	1
Caesar & Loretz GmbH	Potash soap DAC	19005001	1
Caesar & Loretz GmbH	Potash soap DAC	19062201	3
Caesar & Loretz GmbH	Potash soap DAC	19210901	1
Caesar & Loretz GmbH	Potash soap DAC	192733001	2
Caesar & Loretz GmbH	Potash soap DAC	20002380001	1
Caesar & Loretz GmbH	Potash soap DAC	20002382002	3
Caesar & Loretz GmbH	Potash soap DAC	20002384001	1
Caesar & Loretz GmbH	Potash soap DAC	20003353001	1
Caesar & Loretz GmbH	Potash soap DAC	20003357001	1
Caesar & Loretz GmbH	Potash soap DAC	21002109001	1
Caesar & Loretz GmbH	Potash soap DAC	21003125001	4
Carlo/Phönix/6,40	Potash soap DAC	19062301	1
GEHE	Potash soap DAC	17221901	1
Gehe	Potash soap DAC	20001212001	1
Jenne	Potash soap DAC	19062201	1
Klenk	Potash soap DAC	14143401	1
Noweda	Potash soap DAC	17302301	1
Noweda	Potash soap DAC	19000483001	1
Noweda	Potash soap DAC	19159301	1
Sanacorp	Potash soap DAC	17302101	1
Sanacorp	Potash soap DAC	18211501	1
Sanacorp	Potash soap DAC	19000483001	2
Sanacorp	Potash soap DAC	192733001	1

- 297 204 spectra from 1324 *Apo-Ident* customers from a total of 52 899 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Potash soap DAC* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Potash soap DAC* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	520	0	67 979
Type B	0	690	0	110 623
Type C	0	253	1	297 204

The substance/substance group *Potash soap DAC* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 98.8462 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.1304 %)
Type C	100.0000 % (> 99.6875 %)	99.6063 % (> 98.4252 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Potash soap DAC* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Base cream DAC	36.90	–
Non-ionic hydrophil ointment	53.05	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Potash soap DAC* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30987	30987	0.00	62.43
31480	32394	2.16	64.19
31561	32394	5.40	66.85
31650	33409	12.13	66.03
32392	32392	0.00	64.22
32393	32393	0.00	63.38
32394	32394	0.00	65.24
33408	33408	0.00	59.91
33409	33409	0.00	59.66
33410	33410	0.00	59.21
36015	36015	0.00	64.55
36019	36019	0.00	67.34

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Potash soap Ph.Helv.**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`34278-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Potash soap Ph.Helv.; Sapo kalinus Ph.Helv.

Special notes

When selecting the *Potash soap Ph.Helv.* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Potash soap Ph.Helv.	3	1	0

Second-stage model

For differentiation of the substance/substance group *Potash soap Ph.Helv.* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Potash soap Ph.Helv.*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Hänseler AG	Potash soap Ph.H...	2018080637	34278	40	1812453
Hänseler AG	Potash soap Ph.H...	2017080141	34279	40	1812452
Hänseler AG	Potash soap Ph.H...	2021120379	36285	40	20220104

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 120 spectra of 3 reference samples from the substance/substance group *Potash soap Ph.Helv.*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 379 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Potash soap Ph.Helv.*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Hänseler AG	Potash soap Ph.Helv.	2017120020	34280	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 0 spectra from 0 *Apo-Ident* customers from 0 batches from the substance/substance group *Potash soap Ph.Helv.*.
- Among them are spectra of independent samples from 0 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.
- 297 458 spectra from 1324 *Apo-Ident* customers from a total of 52 987 batches from a further 344 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Potash soap Ph.Helv.* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Potash soap Ph.Helv.* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	120	0	68 379
Type B	0	40	0	111 273
Type C	0	0	0	297 458

The substance/substance group *Potash soap Ph.Helv.* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.0000 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6899 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Potash soap Ph.Helv.* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Potash soap DAC	79.72	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Potash soap Ph.Helv.* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
34278	34278	0.00	98.42
34279	34279	0.00	74.78
36285	34279	16.28	76.62

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Propylene glycol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30872-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Propylene glycol; Propylenglycolum

Special notes

When selecting the *Propylene glycol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Propylene glycol	13	13	948

Second-stage model

For differentiation of the substance/substance group *Propylene glycol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Propylene glycol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Propylene glycol	301162	32728	40	20160323
Bombastus	Propylene glycol	18003480	34516	40	20180627
Caelo	Propylene glycol	12372405	30872	40	20130107
Caelo	Propylene glycol	14346604	31663	60	1508143
Caelo	Propylene glycol	15335403	32074	40	20150930
Caelo	Propylene glycol	15355108	32486	40	20151021
Euro OTC	Propylene glycol	1509031	31738	60	20151005*
Euro OTC	Propylene glycol	1603034	32190	40	20160425*
Euro OTC	Propylene glycol	1606014	32466	40	20160617*
Fagron	Propylene glycol	18J03-B07-356433	34514	40	20181107
Fagron	Propylene glycol	19A28-B09-361175	34515	40	20190513
Henry Lamotte	Propylene glycol	0123095	30920	40	1502554
Henry Lamotte	Propylene glycol	6012897001	34513	40	20180808

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 560 spectra of 13 reference samples from the substance/substance group *Propylene glycol*. These samples are listed above in the *calibration samples* section. The reference samples come from 13 different batches.

- 67 939 spectra from a total of 1400 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 530 spectra of 13 reference samples from the substance/substance group *Propylene glycol*.
- Among them are spectra of independent samples from 13 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Propylene glycol	22000478	36215	40
Euro OTC	Propylene glycol	1610031	32836	40
Euro OTC	Propylene glycol	1703024	33447	40
Euro OTC	Propylene glycol	1708002	33665	40
Euro OTC	Propylene glycol	1711023	33923	40
Euro OTC	Propylene glycol	1803023	34093	40
Euro OTC	Propylene glycol	1809007	34302	40
Euro OTC	Propylene glycol	1901018	34431	40
Euro OTC	Propylene glycol	1906034	34654	40
Euro OTC	Propylene glycol	1912001	34808	40
Euro OTC	Propylene glycol	2003060	34834	40
Euro OTC	Propylene glycol	2104019	35580	50
Euro OTC	Propylene glycol	2204011	36281	40

- 110 783 spectra from a total of 2653 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 9031 spectra from 1228 *Apo-Ident* customers from 989 batches from the substance/substance group *Propylene glycol*.
- Among them are spectra of independent samples from 945 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
/ Noweda	Propylene glycol	1000007047	2
/Phoenix	Propylene glycol	17053806	1
03.12.18 Phoenix	Propylene glycol	8064908	1
11.09.2018 Phoenix 2,69EUR	Propylene glycol	18064904	1
19.04.2016 Phoenix 2,84EUR	Propylene glycol	15335403	1
21002539002	Propylene glycol	21002539002	1
A.H.D.	Propylene glycol	1112004-01	1
ACM	Propylene glycol	KNC0776J15	1
Adler	Propylene glycol	18064908	2
AHD / Lamotte	Propylene glycol	1000002992	2
AHD 26.01.15	Propylene glycol	14248707	1
AHD Lamotte GmbH	Propylene glycol	8002520002	1
AHD/Henry Lamotte Oils ...	Propylene glycol	1000007047	1
AHD/Lamotte	Propylene glycol	6012897001	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
AHD	Propylene glycol	1000001132	1
AHD	Propylene glycol	13100907	1
AHD	Propylene glycol	17053809	1
AHD	Propylene glycol	21002539003	1
AHD	Propylene glycol	29775B	1
AHD	Propylene glycol	F08-3744509	1
AHL	Propylene glycol	17H03-B04-340573	2
Alliance 05.2.15	Propylene glycol	14113105	1
Alliance H.	Propylene glycol	15430513	1
Alliance Healthcare/Hen...	Propylene glycol	125099	2
Alliance Healthcare	Propylene glycol	10274303	1
Alliance Healthcare	Propylene glycol	12372403	1
Alliance Healthcare	Propylene glycol	15430508	1
Alliance Healthcare	Propylene glycol	17321705	1
Alliance Healthcare	Propylene glycol	19A28-B09-361175	1
Alliance Healthcare	Propylene glycol	272684	1
Alliance/Caeolo	Propylene glycol	18219105	1
Alliance/Henry	Propylene glycol	8002520002	1
alliance/henry-lamotte	Propylene glycol	8007215001	5
Alliance/Lamotte	Propylene glycol	80072125001	1
Alliance	Propylene glycol	18J03-B07-356433	1
Allianz Healthcare	Propylene glycol	18j03-b07-356433	1
Allianz Healthcare	Propylene glycol	19g04-b03-363220	2
Allianz	Propylene glycol	1000007047	1
Allianz	Propylene glycol	8003093001	2
Anzag 19.03.13 ek: 3,03EUR	Propylene glycol	12372404	2
ANZAG 20.01.2014	Propylene glycol	13256704	1
Anzag 25.01.2013	Propylene glycol	12169802	2
Anzag/Henry Lotte	Propylene glycol	8003093001	1
Anzag	Propylene glycol	1000002768	1
ANZAG	Propylene glycol	123095	8
Anzag	Propylene glycol	12G13N07	1
Anzag	Propylene glycol	13E22-B03-283450	1
Anzag	Propylene glycol	18064901	1
Anzag	Propylene glycol	18219106	1
Anzag	Propylene glycol	192461005	1
Anzag	Propylene glycol	8002520002	4
Apo-ident	Propylene glycol	1509031-01	1
Apo-ident	Propylene glycol	1603034-01	2
apo-ident	Propylene glycol	1708002-01	1
Apotheke/Defektur Misch...	Propylene glycol	35/15	1
Apotheke-Ansatz	Propylene glycol	19/15	1
Audor Pharma	Propylene glycol	2016M-02110	1
Audor Pharma	Propylene glycol	2104019-01	1
Azelis	Propylene glycol	32030	8
Azelis	Propylene glycol	81930p1	1
Azelis	Propylene glycol	81930p2	1
Azelis	Propylene glycol	81930p3	1
Azelis	Propylene glycol	81930p4	1
Azelis	Propylene glycol	81930p5	1
Azelis	Propylene glycol	81930p6	1
Bambustus/Noweda	Propylene glycol	299106	10
BASF AG Deutschland	Propylene glycol	1901018-01	1
BASF AG	Propylene glycol	140802001	1
BASF/Gehe	Propylene glycol	1610031-01	1
BASF/Phoenix	Propylene glycol	1901018-01	1
BASF/Sanacorp	Propylene glycol	1509031-01	1
BASF	Propylene glycol	1501013-01	1
Beiersdorf AG	Propylene glycol	15335404	1
Bionorica/Noweda	Propylene glycol	129878	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Propylene glycol	11417	1
Bombastus	Propylene glycol	123095	1
Bombastus	Propylene glycol	13256707	1
Bombastus	Propylene glycol	15430504	2
Bombastus	Propylene glycol	16251201	1
Bombastus	Propylene glycol	17275502	1
Bombastus	Propylene glycol	17H03-B04-340573	1
Bombastus	Propylene glycol	18000423	3
Bombastus	Propylene glycol	18000424	12
Bombastus	Propylene glycol	18003480	12
Bombastus	Propylene glycol	18005449	11
Bombastus	Propylene glycol	1803479	1
Bombastus	Propylene glycol	18H07-B01-352662	1
Bombastus	Propylene glycol	19001345	2
Bombastus	Propylene glycol	19001346	11
Bombastus	Propylene glycol	19003047	2
Bombastus	Propylene glycol	19003049	8
Bombastus	Propylene glycol	19004748	7
Bombastus	Propylene glycol	1901018-01	1
Bombastus	Propylene glycol	20000737	1
Bombastus	Propylene glycol	20000738	1
Bombastus	Propylene glycol	20001869	2
Bombastus	Propylene glycol	20001870	12
Bombastus	Propylene glycol	20004944	3
Bombastus	Propylene glycol	21001976	4
Bombastus	Propylene glycol	21003881	1
Bombastus	Propylene glycol	22000478	1
Bombastus	Propylene glycol	265358	1
Bombastus	Propylene glycol	268295	1
Bombastus	Propylene glycol	270359	1
Bombastus	Propylene glycol	277548	4
Bombastus	Propylene glycol	281569	3
Bombastus	Propylene glycol	283937	1
Bombastus	Propylene glycol	286382	4
Bombastus	Propylene glycol	289078	4
Bombastus	Propylene glycol	291103	1
Bombastus	Propylene glycol	293947	9
Bombastus	Propylene glycol	295111	5
Bombastus	Propylene glycol	296424	4
Bombastus	Propylene glycol	297626	11
Bombastus	Propylene glycol	2983947	1
Bombastus	Propylene glycol	299106	6
Bombastus	Propylene glycol	301162	19
Bombastus	Propylene glycol	303788	25
Bombastus	Propylene glycol	306364	1
Bombastus	Propylene glycol	307185	11
Bombastus	Propylene glycol	309030	3
Bombastus	Propylene glycol	309031	7
Bombastus	Propylene glycol	311416	3
Bombastus	Propylene glycol	311417	7
Bombastus	Propylene glycol	60091702	1
Bombastus	Propylene glycol	7/14	1
Bombastus	Propylene glycol	8003093001	2
Bombastuts/Gehe	Propylene glycol	307185	2
cae	Propylene glycol	15430514	1
cae	Propylene glycol	18219102	2
Caeleo/ Krieger	Propylene glycol	17321703	1
Caeleo/ Krieger	Propylene glycol	18064912	1
Caeleo/ Krieger	Propylene glycol	20003903013	1
Caelo	Propylene glycol		4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Propylene glycol	1000001132	8
Caelo	Propylene glycol	1000002768	1
Caelo	Propylene glycol	1000002992	3
Caelo	Propylene glycol	1000007047	4
Caelo	Propylene glycol	10061712	1
Caelo	Propylene glycol	10101720	1
Caelo	Propylene glycol	10371307	1
Caelo	Propylene glycol	1051805	1
Caelo	Propylene glycol	1051821	1
Caelo	Propylene glycol	1053801	1
Caelo	Propylene glycol	1064907	1
Caelo	Propylene glycol	1064915	1
Caelo	Propylene glycol	1070318/17053809	1
Caelo	Propylene glycol	1071502	1
Caelo	Propylene glycol	11021404	1
Caelo	Propylene glycol	11051707	1
Caelo	Propylene glycol	11121702	1
Caelo	Propylene glycol	11125811	1
Caelo	Propylene glycol	1113102	1
Caelo	Propylene glycol	11300502	2
Caelo	Propylene glycol	11300504	1
Caelo	Propylene glycol	11300505	2
Caelo	Propylene glycol	11300506	3
Caelo	Propylene glycol	11372005	3
Caelo	Propylene glycol	11372006	14
Caelo	Propylene glycol	11372007	9
Caelo	Propylene glycol	11372009	5
Caelo	Propylene glycol	11372010	6
Caelo	Propylene glycol	11372011	3
Caelo	Propylene glycol	113Q-02110	1
Caelo	Propylene glycol	1140817	1
Caelo	Propylene glycol	11H04-N01	1
Caelo	Propylene glycol	11K28-N01	1
Caelo	Propylene glycol	12021823	1
Caelo	Propylene glycol	1206038-01	1
Caelo	Propylene glycol	12071403	1
Caelo	Propylene glycol	12088205	3
Caelo	Propylene glycol	12088206	5
Caelo	Propylene glycol	12088207	11
Caelo	Propylene glycol	12100907	1
Caelo	Propylene glycol	12101701	1
Caelo	Propylene glycol	12111304	1
Caelo	Propylene glycol	12169802	16
Caelo	Propylene glycol	12169803	10
Caelo	Propylene glycol	12169804	8
Caelo	Propylene glycol	1219803	1
Caelo	Propylene glycol	122882	1
Caelo	Propylene glycol	123095	1
Caelo	Propylene glycol	12345	1
Caelo	Propylene glycol	12372402	2
Caelo	Propylene glycol	12372403	7
Caelo	Propylene glycol	12372404	14
Caelo	Propylene glycol	12372405	15
Caelo	Propylene glycol	125099	19
Caelo	Propylene glycol	1272404	1
Caelo	Propylene glycol	1288205	1
Caelo	Propylene glycol	12C06-N04	1
Caelo	Propylene glycol	12G13-N07	4
Caelo	Propylene glycol	12K13-N05	1
Caelo	Propylene glycol	1301C003-277799	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Propylene glycol	1301C004-277798	2
Caelo	Propylene glycol	1304C009-281100	2
Caelo	Propylene glycol	13071303	1
Caelo	Propylene glycol	13100905	2
Caelo	Propylene glycol	13100906	11
Caelo	Propylene glycol	13100907	24
Caelo	Propylene glycol	13100908	37
Caelo	Propylene glycol	1310098	1
Caelo	Propylene glycol	13111405	1
Caelo	Propylene glycol	13111703	1
Caelo	Propylene glycol	1316003	1
Caelo	Propylene glycol	13167003	19
Caelo	Propylene glycol	13167004	26
Caelo	Propylene glycol	13167005	1
Caelo	Propylene glycol	13167006	7
Caelo	Propylene glycol	1316Q-02110	1
Caelo	Propylene glycol	1321704	1
Caelo	Propylene glycol	13256704	30
Caelo	Propylene glycol	13256705	21
Caelo	Propylene glycol	13256706	20
Caelo	Propylene glycol	13256707	29
Caelo	Propylene glycol	13256708	8
Caelo	Propylene glycol	13256709	14
Caelo	Propylene glycol	13E22-B03	1
Caelo	Propylene glycol	13G09-B01283456	1
Caelo	Propylene glycol	140101001	2
Caelo	Propylene glycol	1405003-01	1
Caelo	Propylene glycol	140510804	1
Caelo	Propylene glycol	1405180	1
Caelo	Propylene glycol	14051802	18
Caelo	Propylene glycol	14051803	7
Caelo	Propylene glycol	14051804	16
Caelo	Propylene glycol	14051805	25
Caelo	Propylene glycol	14113102	21
Caelo	Propylene glycol	14113103	6
Caelo	Propylene glycol	14113105	12
Caelo	Propylene glycol	1418Q-02110	1
Caelo	Propylene glycol	14248702	16
Caelo	Propylene glycol	14248703	21
Caelo	Propylene glycol	14248704	8
Caelo	Propylene glycol	14248706	7
Caelo	Propylene glycol	14248707	11
Caelo	Propylene glycol	1428704	2
Caelo	Propylene glycol	1428706	1
Caelo	Propylene glycol	14288707	1
Caelo	Propylene glycol	14346602	7
Caelo	Propylene glycol	14346603	13
Caelo	Propylene glycol	14346604	16
Caelo	Propylene glycol	14346605	2
Caelo	Propylene glycol	14346606	9
Caelo	Propylene glycol	14346607	25
Caelo	Propylene glycol	14346608	17
Caelo	Propylene glycol	14346609	20
Caelo	Propylene glycol	1436603	1
Caelo	Propylene glycol	1436604	1
Caelo	Propylene glycol	14A09-B04-289598	1
Caelo	Propylene glycol	14C05-B02-295787	2
Caelo	Propylene glycol	15051721	2
Caelo	Propylene glycol	15052021	1
Caelo	Propylene glycol	15069201	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Propylene glycol	15069202	18
Caelo	Propylene glycol	150771	1
Caelo	Propylene glycol	15081501	1
Caelo	Propylene glycol	15081620	1
Caelo	Propylene glycol	150903101	1
Caelo	Propylene glycol	15181601	27
Caelo	Propylene glycol	15181602	17
Caelo	Propylene glycol	15181603	15
Caelo	Propylene glycol	15181604	9
Caelo	Propylene glycol	15181605	12
Caelo	Propylene glycol	151816055	1
Caelo	Propylene glycol	1518601	1
Caelo	Propylene glycol	1518602	1
Caelo	Propylene glycol	15262401	22
Caelo	Propylene glycol	15262402	10
Caelo	Propylene glycol	15262403	25
Caelo	Propylene glycol	15262404	17
Caelo	Propylene glycol	15262406	8
Caelo	Propylene glycol	15262407	15
Caelo	Propylene glycol	15262408	11
Caelo	Propylene glycol	15262409	16
Caelo	Propylene glycol	1526407	1
Caelo	Propylene glycol	1526409	1
Caelo	Propylene glycol	153335405	1
Caelo	Propylene glycol	1533405	2
Caelo	Propylene glycol	15335403	39
Caelo	Propylene glycol	15335404	39
Caelo	Propylene glycol	15335405	36
Caelo	Propylene glycol	15335406	36
Caelo	Propylene glycol	15335407	21
Caelo	Propylene glycol	15335408	15
Caelo	Propylene glycol	15340502	1
Caelo	Propylene glycol	15355101	3
Caelo	Propylene glycol	15355105	1
Caelo	Propylene glycol	15355107	2
Caelo	Propylene glycol	15355108	19
Caelo	Propylene glycol	153565101	1
Caelo	Propylene glycol	1540502	1
Caelo	Propylene glycol	1540513	1
Caelo	Propylene glycol	15413409	1
Caelo	Propylene glycol	154305	1
Caelo	Propylene glycol	15430502	28
Caelo	Propylene glycol	15430503	41
Caelo	Propylene glycol	15430504	24
Caelo	Propylene glycol	15430505	7
Caelo	Propylene glycol	15430506	10
Caelo	Propylene glycol	15430508	33
Caelo	Propylene glycol	15430511	3
Caelo	Propylene glycol	15430512	16
Caelo	Propylene glycol	15430513	15
Caelo	Propylene glycol	15430514	6
Caelo	Propylene glycol	15439502	1
Caelo	Propylene glycol	1562404	1
Caelo	Propylene glycol	1562408	1
Caelo	Propylene glycol	15A07-B04-302969	1
Caelo	Propylene glycol	15A07-B04-302970	3
Caelo	Propylene glycol	15F25-B02-311890	1
Caelo	Propylene glycol	15G28-B03-311889	1
Caelo	Propylene glycol	15L23-B01-318036	1
Caelo	Propylene glycol	16021506	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Propylene glycol	1603034-01	2
Caelo	Propylene glycol	1605403	1
Caelo	Propylene glycol	1606014-01	1
Caelo	Propylene glycol	16081802	1
Caelo	Propylene glycol	1610031	1
Caelo	Propylene glycol	161003101	1
Caelo	Propylene glycol	1610031-01	1
Caelo	Propylene glycol	1610503	1
Caelo	Propylene glycol	1610540	1
Caelo	Propylene glycol	16105403	59
Caelo	Propylene glycol	16105404	14
Caelo	Propylene glycol	1615403	1
Caelo	Propylene glycol	162251207	1
Caelo	Propylene glycol	1625120	1
Caelo	Propylene glycol	16251201	99
Caelo	Propylene glycol	16251201/1060217	1
Caelo	Propylene glycol	16251202	67
Caelo	Propylene glycol	16251203	13
Caelo	Propylene glycol	16251205	59
Caelo	Propylene glycol	16251206	75
Caelo	Propylene glycol	16251207	11
Caelo	Propylene glycol	16251208	5
Caelo	Propylene glycol	1651206	1
Caelo	Propylene glycol	16551207	1
Caelo	Propylene glycol	16851205	1
Caelo	Propylene glycol	16C10-B04	2
Caelo	Propylene glycol	16C10-B04-321659	1
Caelo	Propylene glycol	16C10B04323302	1
Caelo	Propylene glycol	16C10-B04-323302	2
Caelo	Propylene glycol	16G04B01328151	1
Caelo	Propylene glycol	170131PG/16105403	1
Caelo	Propylene glycol	1703024-01	3
Caelo	Propylene glycol	170323182	1
Caelo	Propylene glycol	17041501	1
Caelo	Propylene glycol	17053188	1
Caelo	Propylene glycol	17053801	59
Caelo	Propylene glycol	170538015378	1
Caelo	Propylene glycol	17053802	11
Caelo	Propylene glycol	17053803	1
Caelo	Propylene glycol	17053804	73
Caelo	Propylene glycol	17053805	3
Caelo	Propylene glycol	17053806	88
Caelo	Propylene glycol	170538065447	1
Caelo	Propylene glycol	17053807	13
Caelo	Propylene glycol	17053809	95
Caelo	Propylene glycol	17053810	5
Caelo	Propylene glycol	17053814	19
Caelo	Propylene glycol	17053815	2
Caelo	Propylene glycol	1705804	1
Caelo	Propylene glycol	17061707	1
Caelo	Propylene glycol	170729184	1
Caelo	Propylene glycol	1708002-01	1
Caelo	Propylene glycol	170808PG/16251206	1
Caelo	Propylene glycol	1711023-01	2
Caelo	Propylene glycol	171106PG/16251202	1
Caelo	Propylene glycol	1725502	1
Caelo	Propylene glycol	17275502	70
Caelo	Propylene glycol	17275503	1
Caelo	Propylene glycol	17275504	1
Caelo	Propylene glycol	17296702	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Propylene glycol	1731703	1
Caelo	Propylene glycol	173211703	1
Caelo	Propylene glycol	17321703	108
Caelo	Propylene glycol	17321704	42
Caelo	Propylene glycol	17321705	6
Caelo	Propylene glycol	17321706	1
Caelo	Propylene glycol	17321708	11
Caelo	Propylene glycol	17423HH431	1
Caelo	Propylene glycol	1793451	2
Caelo	Propylene glycol	17A06B03_334896	1
Caelo	Propylene glycol	17a06-b03-332091	1
Caelo	Propylene glycol	17A06-B03-332091	1
Caelo	Propylene glycol	17E22B10	1
Caelo	Propylene glycol	17E22-B10	1
Caelo	Propylene glycol	17E22-B10-336830	2
Caelo	Propylene glycol	17H03-B04-340573	1
Caelo	Propylene glycol	17H03-B04-344395	1
Caelo	Propylene glycol	18/03-B07-355043	1
Caelo	Propylene glycol	18000424	1
Caelo	Propylene glycol	18003480	1
Caelo	Propylene glycol	180130PG/17275502	1
Caelo	Propylene glycol	1803023-01	2
Caelo	Propylene glycol	18031704	1
Caelo	Propylene glycol	18041302	1
Caelo	Propylene glycol	1804212110	1
Caelo	Propylene glycol	18046901	1
Caelo	Propylene glycol	18046912	1
Caelo	Propylene glycol	180644913	1
Caelo	Propylene glycol	18064901	178
Caelo	Propylene glycol	18064902	46
Caelo	Propylene glycol	18064904	116
Caelo	Propylene glycol	18064905	3
Caelo	Propylene glycol	18064906	30
Caelo	Propylene glycol	18064907	67
Caelo	Propylene glycol	18064908	57
Caelo	Propylene glycol	18064909	3
Caelo	Propylene glycol	1806491	1
Caelo	Propylene glycol	18064912	96
Caelo	Propylene glycol	18064913	16
Caelo	Propylene glycol	18064914	4
Caelo	Propylene glycol	18064915	117
Caelo	Propylene glycol	18064916	6
Caelo	Propylene glycol	18064917	54
Caelo	Propylene glycol	18064918	18
Caelo	Propylene glycol	18064919	2
Caelo	Propylene glycol	18064920	9
Caelo	Propylene glycol	18065904	1
Caelo	Propylene glycol	1806904	1
Caelo	Propylene glycol	1806908	1
Caelo	Propylene glycol	18081702	1
Caelo	Propylene glycol	1809007-01	7
Caelo	Propylene glycol	181016185	1
Caelo	Propylene glycol	1821902	1
Caelo	Propylene glycol	18219101	76
Caelo	Propylene glycol	18219102	62
Caelo	Propylene glycol	18219103	1
Caelo	Propylene glycol	18219105	37
Caelo	Propylene glycol	1821910501	1
Caelo	Propylene glycol	18219106	65
Caelo	Propylene glycol	18219107	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Propylene glycol	18219108	1
Caelo	Propylene glycol	18219109	1
Caelo	Propylene glycol	18219110	19
Caelo	Propylene glycol	18219112	1
Caelo	Propylene glycol	186494	1
Caelo	Propylene glycol	18964901	1
Caelo	Propylene glycol	18A19-B01	1
Caelo	Propylene glycol	18A19-B01-348338	3
Caelo	Propylene glycol	18A19-B01-351227	5
Caelo	Propylene glycol	18H07-352662	1
Caelo	Propylene glycol	18H07-B01	1
Caelo	Propylene glycol	18H07-B01-352703	2
Caelo	Propylene glycol	18j03-B07	1
Caelo	Propylene glycol	18J03-B07-356433	2
Caelo	Propylene glycol	18J03-B07-357162	1
Caelo	Propylene glycol	19041307	1
Caelo	Propylene glycol	1906034-01	2
Caelo	Propylene glycol	19064915	1
Caelo	Propylene glycol	19091801	1
Caelo	Propylene glycol	19111421	1
Caelo	Propylene glycol	19230101	41
Caelo	Propylene glycol	19230102	19
Caelo	Propylene glycol	19230103	11
Caelo	Propylene glycol	19230104	1
Caelo	Propylene glycol	1923101	1
Caelo	Propylene glycol	1923601	1
Caelo	Propylene glycol	19239101	1
Caelo	Propylene glycol	19241006	3
Caelo	Propylene glycol	19243601	86
Caelo	Propylene glycol	19243602	17
Caelo	Propylene glycol	19243603	2
Caelo	Propylene glycol	19243604	1
Caelo	Propylene glycol	1924461005	1
Caelo	Propylene glycol	1924601	1
Caelo	Propylene glycol	19246100	1
Caelo	Propylene glycol	192461001	1
Caelo	Propylene glycol	192461004	1
Caelo	Propylene glycol	192461005	75
Caelo	Propylene glycol	192461006	25
Caelo	Propylene glycol	1924610063	1
Caelo	Propylene glycol	192461009	4
Caelo	Propylene glycol	19246101	87
Caelo	Propylene glycol	192461011	73
Caelo	Propylene glycol	192461012	4
Caelo	Propylene glycol	192461013	1
Caelo	Propylene glycol	1924611011	1
Caelo	Propylene glycol	19A18-T06-063528	1
Caelo	Propylene glycol	19E20-B01-362176	1
Caelo	Propylene glycol	19I27-F03-365136	1
Caelo	Propylene glycol	200000779002	1
Caelo	Propylene glycol	200000779005	2
Caelo	Propylene glycol	200000779009	1
Caelo	Propylene glycol	200003592003	1
Caelo	Propylene glycol	200003903008	1
Caelo	Propylene glycol	2000077900	1
Caelo	Propylene glycol	20000779001	2
Caelo	Propylene glycol	20000779002	54
Caelo	Propylene glycol	20000779005	38
Caelo	Propylene glycol	20000779006	7
Caelo	Propylene glycol	20000779007	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Propylene glycol	20000779008	5
Caelo	Propylene glycol	20000779009	41
Caelo	Propylene glycol	2000077909	1
Caelo	Propylene glycol	20000779099	1
Caelo	Propylene glycol	20003592002	4
Caelo	Propylene glycol	20003592003	26
Caelo	Propylene glycol	200039004	1
Caelo	Propylene glycol	20003903003	3
Caelo	Propylene glycol	20003903004	49
Caelo	Propylene glycol	20003903005	4
Caelo	Propylene glycol	20003903007	1
Caelo	Propylene glycol	20003903008	12
Caelo	Propylene glycol	20003903012	1
Caelo	Propylene glycol	20003903013	13
Caelo	Propylene glycol	2000393013	1
Caelo	Propylene glycol	2000779005	3
Caelo	Propylene glycol	2000779009	4
Caelo	Propylene glycol	2003592003	1
Caelo	Propylene glycol	2003903004	1
Caelo	Propylene glycol	2003903012	1
Caelo	Propylene glycol	20071201	1
Caelo	Propylene glycol	20111203	1
Caelo	Propylene glycol	20140612-6	1
Caelo	Propylene glycol	2021621	1
Caelo	Propylene glycol	2021801	1
Caelo	Propylene glycol	2100239003	1
Caelo	Propylene glycol	210025390003	1
Caelo	Propylene glycol	21002539002	15
Caelo	Propylene glycol	21002539003	21
Caelo	Propylene glycol	21002539004	1
Caelo	Propylene glycol	21002539006	1
Caelo	Propylene glycol	21002539008	1
Caelo	Propylene glycol	21002539009	3
Caelo	Propylene glycol	21003906004	1
Caelo	Propylene glycol	2101302	1
Caelo	Propylene glycol	2104019-01	1
Caelo	Propylene glycol	210718064901	1
Caelo	Propylene glycol	21F10-F03-380282	1
Caelo	Propylene glycol	22121810	1
Caelo	Propylene glycol	22121811	1
Caelo	Propylene glycol	2310070	1
Caelo	Propylene glycol	24041221	2
Caelo	Propylene glycol	24121301	1
Caelo	Propylene glycol	25011302	1
Caelo	Propylene glycol	25031301	1
Caelo	Propylene glycol	26021320	2
Caelo	Propylene glycol	26041402	1
Caelo	Propylene glycol	26061302	1
Caelo	Propylene glycol	27091402	2
Caelo	Propylene glycol	27101805	1
Caelo	Propylene glycol	2741	1
Caelo	Propylene glycol	2755	1
Caelo	Propylene glycol	2765	1
Caelo	Propylene glycol	28021301	1
Caelo	Propylene glycol	28071503	1
Caelo	Propylene glycol	28111814	1
Caelo	Propylene glycol	2887	1
Caelo	Propylene glycol	2888	1
Caelo	Propylene glycol	29091403	1
Caelo	Propylene glycol	2913M-02110	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Propylene glycol	29814B	1
Caelo	Propylene glycol	29879B	1
Caelo	Propylene glycol	29934B	1
Caelo	Propylene glycol	300915	1
Caelo	Propylene glycol	3071402	1
Caelo	Propylene glycol	30718	1
Caelo	Propylene glycol	307185	1
Caelo	Propylene glycol	3092003	1
Caelo	Propylene glycol	31051317	1
Caelo	Propylene glycol	31256708	1
Caelo	Propylene glycol	3352	1
Caelo	Propylene glycol	3512M-02110	1
Caelo	Propylene glycol	3615U-02110	1
Caelo	Propylene glycol	4111708	1
Caelo	Propylene glycol	418M-02110	1
Caelo	Propylene glycol	4248702	1
Caelo	Propylene glycol	42488055	1
Caelo	Propylene glycol	4419M-02110	1
Caelo	Propylene glycol	46033516K0	1
Caelo	Propylene glycol	5051802	1
Caelo	Propylene glycol	5061201	1
Caelo	Propylene glycol	514E-02110	1
Caelo	Propylene glycol	5262402	1
Caelo	Propylene glycol	54/AKD7	1
Caelo	Propylene glycol	5671401	3
Caelo	Propylene glycol	58/AKD16	1
Caelo	Propylene glycol	60016860001	1
Caelo	Propylene glycol	6012897001	13
Caelo	Propylene glycol	6016860001	1
Caelo	Propylene glycol	6021301	1
Caelo	Propylene glycol	6031720	1
Caelo	Propylene glycol	6071520	1
Caelo	Propylene glycol	6071718	1
Caelo	Propylene glycol	611211	1
Caelo	Propylene glycol	6509HH9041	1
Caelo	Propylene glycol	70214PJK02	1
Caelo	Propylene glycol	7051807	1
Caelo	Propylene glycol	7053802	1
Caelo	Propylene glycol	7053806	1
Caelo	Propylene glycol	7071806	1
Caelo	Propylene glycol	8002520002	7
Caelo	Propylene glycol	8003093001	5
Caelo	Propylene glycol	8007215001	5
Caelo	Propylene glycol	8051503	1
Caelo	Propylene glycol	80649121	1
Caelo	Propylene glycol	83/2014	1
Caelo	Propylene glycol	9061811	1
Caelo	Propylene glycol	9102001	1
Caelo	Propylene glycol	9246101	1
Caelo	Propylene glycol	Caelo14113105	1
Caelo	Propylene glycol	ch8003093001	1
Caeolo / Phönix	Propylene glycol	17053806	2
Caeolo/Phoenix	Propylene glycol	18064912	2
Caeolo/Sanacorp	Propylene glycol	18064916	1
Caesa / Alliance Health...	Propylene glycol	18064907	1
Caesar & Lorenz GmbH	Propylene glycol	16105403	2
Caesar & Lorenz GmbH	Propylene glycol	18064901	2
Caesar & Lorenz GmbH	Propylene glycol	18219102	1
Caesar & Lorenz GmbH	Propylene glycol	18219106	1
Caesar & Lorenz GmbH	Propylene glycol	19243601	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Lorenz GmbH	Propylene glycol	192461005	1
Caesar & Lorenz GmbH	Propylene glycol	20000779002	1
Caesar & Loretz Gmb/ Je...	Propylene glycol	21002539002	1
Caesar & Loretz GmbH / ...	Propylene glycol	18064904	3
Caesar & Loretz GmbH / ...	Propylene glycol	18064912	1
Caesar & Loretz GmbH / ...	Propylene glycol	15430512	1
Caesar & Loretz GmbH / ...	Propylene glycol	192461011	1
Caesar & Loretz GmbH / ...	Propylene glycol	192461011	1
Caesar & Loretz GmbH / ...	Propylene glycol	108064915	1
Caesar & Loretz GmbH / ...	Propylene glycol	17053804	2
Caesar & Loretz GmbH / ...	Propylene glycol	17321703	1
Caesar & Loretz GmbH / ...	Propylene glycol	19246101	1
Caesar & Loretz GmbH / ...	Propylene glycol	18064915	4
Caesar & Loretz GmbH / ...	Propylene glycol	18064920	1
Caesar & Loretz GmbH / ...	Propylene glycol	21003906004	1
Caesar & Loretz GmbH /s...	Propylene glycol	21002539004	1
Caesar & Loretz GmbH Hi...	Propylene glycol	13256705	1
Caesar & Loretz GmbH Hi...	Propylene glycol	14248706	1
Caesar & Loretz GmbH Hi...	Propylene glycol	14248707	1
Caesar & Loretz GmbH Hi...	Propylene glycol	15335403	1
Caesar & Loretz GmbH Hi...	Propylene glycol	15335404	1
Caesar & Loretz GmbH Hi...	Propylene glycol	15430508	1
Caesar & Loretz GmbH Sa...	Propylene glycol	19246101	1
Caesar & Loretz GmbH, 4...	Propylene glycol	11300505	1
Caesar & Loretz GmbH, 4...	Propylene glycol	11372007	1
Caesar & Loretz GmbH, 4...	Propylene glycol	12169802	5
Caesar & Loretz GmbH/ A...	Propylene glycol	18064915	1
Caesar & Loretz GmbH/ A...	Propylene glycol	192461005	1
Caesar & Loretz GmbH/ A...	Propylene glycol	19246101	1
Caesar & Loretz GmbH/ G...	Propylene glycol	192461006	2
Caesar & Loretz GmbH/ G...	Propylene glycol	20000779008	1
Caesar & Loretz GmbH/ G...	Propylene glycol	20003592003	1
Caesar & Loretz GmbH/ G...	Propylene glycol	20003903008	1
Caesar & Loretz GmbH/ G...	Propylene glycol	21002539002	1
Caesar & Loretz GmbH/ J...	Propylene glycol	20000779006	1
Caesar & Loretz GmbH/ K...	Propylene glycol	192461005	1
Caesar & Loretz GmbH/ N...	Propylene glycol	19243602	1
Caesar & Loretz GmbH/ P...	Propylene glycol	18219105	1
Caesar & Loretz GmbH/ P...	Propylene glycol	19243601	1
Caesar & Loretz GmbH/ P...	Propylene glycol	192461006	1
Caesar & Loretz GmbH/ P...	Propylene glycol	20003592002	1
Caesar & Loretz GmbH/ S...	Propylene glycol	20003592002	1
Caesar & Loretz GmbH/ S...	Propylene glycol	20000779009	1
Caesar & Loretz GmbH/ S...	Propylene glycol	21002539007	1
Caesar & Loretz GmbH/AHD	Propylene glycol	18219102	1
Caesar & Loretz GmbH/AHD	Propylene glycol	19230101	1
Caesar & Loretz GmbH/AHD	Propylene glycol	20000779009	1
Caesar & Loretz GmbH/AHD	Propylene glycol	20003592003	1
Caesar & Loretz GmbH/Al...	Propylene glycol	29030080003	1
Caesar & Loretz GmbH/Fi...	Propylene glycol	18219110	1
Caesar & Loretz GmbH/Fi...	Propylene glycol	19230103	1
Caesar & Loretz GmbH/Fi...	Propylene glycol	192461006	1
Caesar & Loretz GmbH/Fi...	Propylene glycol	20000779008	1
Caesar & Loretz GmbH/Gehe	Propylene glycol	18064917	1
Caesar & Loretz GmbH/Gehe	Propylene glycol	19230103	1
Caesar & Loretz GmbH/Gehe	Propylene glycol	19243602	2
Caesar & Loretz GmbH/Gehe	Propylene glycol	19246101	2
Caesar & Loretz GmbH/Gehe	Propylene glycol	20000779009	1
Caesar & Loretz GmbH/GEHE	Propylene glycol	20000779009	1
Caesar & Loretz GmbH/Gehe	Propylene glycol	20003592003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/GEHE	Propylene glycol	20003903004	1
Caesar & Loretz GmbH/GEHE	Propylene glycol	20003903008	1
Caesar & Loretz GmbH/Gehe	Propylene glycol	21002539003	3
Caesar & Loretz GmbH/Gö...	Propylene glycol	19230101	1
Caesar & Loretz GmbH/Je...	Propylene glycol	18219102	1
Caesar & Loretz GmbH/Je...	Propylene glycol	19230103	1
Caesar & Loretz GmbH/Je...	Propylene glycol	19243601	1
Caesar & Loretz GmbH/Je...	Propylene glycol	192461006	1
Caesar & Loretz GmbH/Kr...	Propylene glycol	192461006	1
Caesar & Loretz GmbH/Kr...	Propylene glycol	20000779005	1
Caesar & Loretz GmbH/Kr...	Propylene glycol	20003592003	1
Caesar & Loretz GmbH/No...	Propylene glycol	18219101	1
Caesar & Loretz GmbH/No...	Propylene glycol	18J03B07355043	1
Caesar & Loretz GmbH/No...	Propylene glycol	192461005	4
Caesar & Loretz GmbH/No...	Propylene glycol	20000779002	3
Caesar & Loretz GmbH/Phoe	Propylene glycol	20003592002	1
Caesar & Loretz GmbH/Ph...	Propylene glycol	192461006	1
Caesar & Loretz GmbH/Ph...	Propylene glycol	20000779009	3
Caesar & Loretz GmbH/Ph...	Propylene glycol	20003903008	1
Caesar & Loretz GmbH/Ph...	Propylene glycol	20003903013	1
Caesar & Loretz GmbH/Ph...	Propylene glycol	18064917	1
Caesar & Loretz GmbH/Ph...	Propylene glycol	18219106	1
Caesar & Loretz GmbH/Ph...	Propylene glycol	20003592003	4
Caesar & Loretz GmbH/Ph...	Propylene glycol	20003903004	2
Caesar & Loretz GmbH/Ph...	Propylene glycol	21002539002	3
Caesar & Loretz GmbH/Ph...	Propylene glycol	21002539003	3
Caesar & Loretz GmbH/Px	Propylene glycol	18064917	1
Caesar & Loretz GmbH/Sana	Propylene glycol	20003903004	1
Caesar & Loretz GmbH/Sa...	Propylene glycol	18064920	2
Caesar & Loretz GmbH/sa...	Propylene glycol	18219106	1
Caesar & Loretz GmbH/Sa...	Propylene glycol	19246101	1
Caesar & Loretz GmbH/sa...	Propylene glycol	20000779009	1
Caesar & Loretz GmbH/Sa...	Propylene glycol	20000779009	3
Caesar & Loretz GmbH/Sa...	Propylene glycol	20003592003	1
Caesar & Loretz GmbH/Sp...	Propylene glycol	18064913	1
Caesar & Loretz GmbH/VDL	Propylene glycol	19246101	2
Caesar & Loretz GmbH	Propylene glycol	11372006	1
Caesar & Loretz GmbH	Propylene glycol	12372404	1
Caesar & Loretz GmbH	Propylene glycol	14051804	2
Caesar & Loretz GmbH	Propylene glycol	15262403	1
Caesar & Loretz GmbH	Propylene glycol	16251201	1
Caesar & Loretz GmbH	Propylene glycol	18064904	2
Caesar & Loretz GmbH	Propylene glycol	18064908	3
Caesar & Loretz GmbH	Propylene glycol	18064912	4
Caesar & Loretz GmbH	Propylene glycol	18064913	1
Caesar & Loretz GmbH	Propylene glycol	18064914	1
Caesar & Loretz GmbH	Propylene glycol	18064915	14
Caesar & Loretz GmbH	Propylene glycol	18064916	1
Caesar & Loretz GmbH	Propylene glycol	18064917	9
Caesar & Loretz GmbH	Propylene glycol	18064918	2
Caesar & Loretz GmbH	Propylene glycol	18064919	1
Caesar & Loretz GmbH	Propylene glycol	18219101	8
Caesar & Loretz GmbH	Propylene glycol	18219102	16
Caesar & Loretz GmbH	Propylene glycol	18219103	2
Caesar & Loretz GmbH	Propylene glycol	18219105	1
Caesar & Loretz GmbH	Propylene glycol	18219106	8
Caesar & Loretz GmbH	Propylene glycol	18219110	3
Caesar & Loretz GmbH	Propylene glycol	18219112	1
Caesar & Loretz GmbH	Propylene glycol	18J03-_B07-356433	1
Caesar & Loretz GmbH	Propylene glycol	1906034-01	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Propylene glycol	1912001-01	1
Caesar & Loretz GmbH	Propylene glycol	19230101	10
Caesar & Loretz GmbH	Propylene glycol	19230102	3
Caesar & Loretz GmbH	Propylene glycol	19230103	7
Caesar & Loretz GmbH	Propylene glycol	19243601	22
Caesar & Loretz GmbH	Propylene glycol	19243602	10
Caesar & Loretz GmbH	Propylene glycol	19243603	1
Caesar & Loretz GmbH	Propylene glycol	192461001	1
Caesar & Loretz GmbH	Propylene glycol	192461005	19
Caesar & Loretz GmbH	Propylene glycol	192461006	2
Caesar & Loretz GmbH	Propylene glycol	192461009	2
Caesar & Loretz GmbH	Propylene glycol	19246101	21
Caesar & Loretz GmbH	Propylene glycol	192461011	1
Caesar & Loretz GmbH	Propylene glycol	192461012	5
Caesar & Loretz GmbH	Propylene glycol	200000779006	3
Caesar & Loretz GmbH	Propylene glycol	20000779002	19
Caesar & Loretz GmbH	Propylene glycol	20000779005	15
Caesar & Loretz GmbH	Propylene glycol	20000779006	9
Caesar & Loretz GmbH	Propylene glycol	20000779008	5
Caesar & Loretz GmbH	Propylene glycol	20000779009	18
Caesar & Loretz GmbH	Propylene glycol	2000079005	1
Caesar & Loretz GmbH	Propylene glycol	20003592003	12
Caesar & Loretz GmbH	Propylene glycol	20003903004	24
Caesar & Loretz GmbH	Propylene glycol	20003903005	5
Caesar & Loretz GmbH	Propylene glycol	20003903008	6
Caesar & Loretz GmbH	Propylene glycol	20003903012	2
Caesar & Loretz GmbH	Propylene glycol	20003903013	2
Caesar & Loretz GmbH	Propylene glycol	21002539002	6
Caesar & Loretz GmbH	Propylene glycol	21002539003	7
Caesar & Loretz GmbH	Propylene glycol	21002539008	1
Caesar & Loretz GmbH	Propylene glycol	21002539009	1
Caesar & Loretz GmbH	Propylene glycol	210718064901	1
Caesar & Loretz GmbH	Propylene glycol	B01-3621706	1
Caesar & Loretz Hilden	Propylene glycol	18064912	3
Caesar & Loretz Hilden	Propylene glycol	19230102	2
Caesar & Loretz Hilden	Propylene glycol	19243601	1
Caesar & Loretz/Noweda	Propylene glycol	16105403	1
Caesar & Loretz/Noweda	Propylene glycol	20000779002	1
Caesar & Loretz/Noweda	Propylene glycol	20000779009	1
Caesar & Loretz	Propylene glycol	16251206	1
Caesar & Loretz	Propylene glycol	18064901	1
Caesar & Loretz	Propylene glycol	18064908	1
Caesar /phönix	Propylene glycol	13167003	1
Caesar Loretz	Propylene glycol	20000779009	3
Caesar und Loretz GmbH	Propylene glycol	17053806	2
Caesar und Loretz GmbH	Propylene glycol	20000779005	1
Caesar und Loretz	Propylene glycol	18219106	1
Caesar&Lorenz	Propylene glycol	20000779005	1
Caesar&Lorenz	Propylene glycol	20003903008	1
Caesar&Lorenz	Propylene glycol	2003903008	1
caesar&loretz GmbH,Phön...	Propylene glycol	16251201	1
Caesar&Loretz GmbH/ San...	Propylene glycol	18064915	1
Caesar&Loretz GmbH/Anzag	Propylene glycol	15181605	2
Caesar&Loretz GmbH	Propylene glycol	15335405	1
Caesar&Loretz GmbH	Propylene glycol	192461011	1
Caesar&Loretz GmbH	Propylene glycol	20003903013	1
Caesar&Loretz GmbH	Propylene glycol	21002539003	1
Caesar&loretz,Phoenix	Propylene glycol	15069202	1
caesar&loretz	Propylene glycol	15262406	1
Caesar/Ebert	Propylene glycol	18064912	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar/Noweda	Propylene glycol	13100906	1
Caesar/Noweda	Propylene glycol	13167006	2
Caesar/Noweda	Propylene glycol	14051803	2
caesar	Propylene glycol	14248707	1
Caleo/ Gehe	Propylene glycol	18064915	2
Caleo/ Noweda	Propylene glycol	17053809	1
Caleo	Propylene glycol	15430508	1
Calo/Sanacorp	Propylene glycol	16105403	1
canea, anzag	Propylene glycol	13167003	3
Carlo/ Gehe	Propylene glycol	16105403	1
Cealo / Noweda	Propylene glycol	13256708	2
Cealo/ AHD	Propylene glycol	18219102	1
Cealo/ Anzag	Propylene glycol	17053804	1
Cealo/Phönix	Propylene glycol	15430502	1
Cealo/Phönix	Propylene glycol	17321703	1
Cealo	Propylene glycol	13100907	2
Cealo	Propylene glycol	15430504	1
cealo	Propylene glycol	16251201	1
Ceasar & Loretz GmbH / ...	Propylene glycol	18064908	1
Celo/Noweda	Propylene glycol	14248704	1
Celo/Noweda	Propylene glycol	17053802	1
Celo/Noweda	Propylene glycol	18064906	1
Celo/Phönix	Propylene glycol	17053804	3
Celo	Propylene glycol	11607-2	1
Cordes/AHD	Propylene glycol	19230103	2
Delta	Propylene glycol	17A06-B03-332091	1
Delta	Propylene glycol	17H03-B04-344395	1
Ebert & Jacobi	Propylene glycol	1000007047	2
Ebert & Jacobi	Propylene glycol	6016860001	2
Eigenherstellung	Propylene glycol	120912PML01	1
Eu Rho/Ge-HH	Propylene glycol	1912001-01	1
EuRho/ AHD	Propylene glycol	18064904	1
EuRho/Noweda	Propylene glycol	140020-01	1
EuRho/Noweda	Propylene glycol	1504031-01	1
EuRho/Noweda	Propylene glycol	1803023-01	5
EuRho/Noweda	Propylene glycol	1809007-01	5
EuRho/Noweda	Propylene glycol	1901018-01	5
EuRho/Noweda	Propylene glycol	1912001-01	1
EuRho/Noweda	Propylene glycol	EuroOTC	1
EuRho	Propylene glycol	1206038-01	1
EuRho	Propylene glycol	1302002-01	1
EuRho	Propylene glycol	1509031-01	2
EuRho	Propylene glycol	1803023-01	1
EuRho	Propylene glycol	1906034-01	1
EuRho	Propylene glycol	25697147G0	1
Euro OTC	Propylene glycol		1
Euro OTC	Propylene glycol	1000002992	1
Euro OTC	Propylene glycol	1000007047	2
Euro OTC	Propylene glycol	1051821	1
Euro OTC	Propylene glycol	1109015-01	1
Euro OTC	Propylene glycol	11C07-N06	1
Euro OTC	Propylene glycol	1206038-01	4
Euro OTC	Propylene glycol	125099	7
Euro OTC	Propylene glycol	130200201	1
Euro OTC	Propylene glycol	1302002-01	9
Euro OTC	Propylene glycol	130702101	1
Euro OTC	Propylene glycol	1307021-01	7
Euro OTC	Propylene glycol	13256704	1
Euro OTC	Propylene glycol	140101001	1
Euro OTC	Propylene glycol	1401010-01	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Propylene glycol	140500301	3
Euro OTC	Propylene glycol	1405003-01	2
Euro OTC	Propylene glycol	140802001	1
Euro OTC	Propylene glycol	1408020-01	11
Euro OTC	Propylene glycol	14346602	2
Euro OTC	Propylene glycol	150101301	2
Euro OTC	Propylene glycol	1501013-01	17
Euro OTC	Propylene glycol	15040301-01	1
Euro OTC	Propylene glycol	150403101	3
Euro OTC	Propylene glycol	1504031-01	21
Euro OTC	Propylene glycol	150903101	1
Euro OTC	Propylene glycol	1509031-01	23
Euro OTC	Propylene glycol	1509031-02	1
Euro OTC	Propylene glycol	1509031-031	1
Euro OTC	Propylene glycol	15262403	1
Euro OTC	Propylene glycol	15262404	1
Euro OTC	Propylene glycol	15355108	1
Euro OTC	Propylene glycol	15430508	2
Euro OTC	Propylene glycol	16016014-01	1
Euro OTC	Propylene glycol	1603034	1
Euro OTC	Propylene glycol	160303401	2
Euro OTC	Propylene glycol	1603034-01	26
Euro OTC	Propylene glycol	160303401-01	1
Euro OTC	Propylene glycol	16060114-01	1
Euro OTC	Propylene glycol	1606014-01	15
Euro OTC	Propylene glycol	1610031	1
Euro OTC	Propylene glycol	1610031-01	24
Euro OTC	Propylene glycol	16C10-B04-321081	1
Euro OTC	Propylene glycol	16G04-B01-328151	2
Euro OTC	Propylene glycol	17008002-01	1
Euro OTC	Propylene glycol	1703024-01	20
Euro OTC	Propylene glycol	17053809	1
Euro OTC	Propylene glycol	1708002-01	34
Euro OTC	Propylene glycol	171102301	2
Euro OTC	Propylene glycol	1711023-01	36
Euro OTC	Propylene glycol	17423HH431	3
Euro OTC	Propylene glycol	17538H61471	1
Euro OTC	Propylene glycol	17538HH431	3
Euro OTC	Propylene glycol	1803023-01	9
Euro OTC	Propylene glycol	18064901	2
Euro OTC	Propylene glycol	1809007	1
Euro OTC	Propylene glycol	1809007-01	34
Euro OTC	Propylene glycol	18219102	2
Euro OTC	Propylene glycol	18532HH431	1
Euro OTC	Propylene glycol	190006034-01	1
Euro OTC	Propylene glycol	190101801	3
Euro OTC	Propylene glycol	1901018-01	43
Euro OTC	Propylene glycol	1901018-07	1
Euro OTC	Propylene glycol	190480705	1
Euro OTC	Propylene glycol	190603401	2
Euro OTC	Propylene glycol	1906034-01	49
Euro OTC	Propylene glycol	191200101	1
Euro OTC	Propylene glycol	1912001-01	36
Euro OTC	Propylene glycol	1912001-1	1
Euro OTC	Propylene glycol	19606034-01	1
Euro OTC	Propylene glycol	1996034-01	1
Euro OTC	Propylene glycol	19G04-B03-363220	1
Euro OTC	Propylene glycol	2003060	2
Euro OTC	Propylene glycol	200306001	4
Euro OTC	Propylene glycol	2003060-01	31

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Propylene glycol	2003060-02	3
Euro OTC	Propylene glycol	20033060-01	1
Euro OTC	Propylene glycol	2003660-01	1
Euro OTC	Propylene glycol	200749	1
Euro OTC	Propylene glycol	2101019-02	1
Euro OTC	Propylene glycol	210401901	1
Euro OTC	Propylene glycol	2104019-01	23
Euro OTC	Propylene glycol	2104019-02	1
Euro OTC	Propylene glycol	2204011-01	1
Euro OTC	Propylene glycol	25697147G0	7
Euro OTC	Propylene glycol	25897147G0	1
Euro OTC	Propylene glycol	289078	1
Euro OTC	Propylene glycol	300820	1
Euro OTC	Propylene glycol	309031	1
Euro OTC	Propylene glycol	46033516K0	1
Euro OTC	Propylene glycol	5315HH9041	2
Euro OTC	Propylene glycol	6230HH9041	1
Euro OTC	Propylene glycol	6509HH9041	4
Euro OTC	Propylene glycol	93839775L0	1
Euro OTC	Propylene glycol	96377556P0	3
Euro OTC	Propylene glycol	q603034-01	1
Euro PTC Pharma GmbH/Sa...	Propylene glycol	1504031-01	1
Euro/ Sanacorp	Propylene glycol	14248704	1
Euro/ Sanacorp	Propylene glycol	1610031-01	1
Euro/Noweda	Propylene glycol	1703024-01	1
Europ. AB	Propylene glycol	5671401	1
EuroPTC/Phönix	Propylene glycol	15901013-01	1
Fa. Azelis	Propylene glycol	11824a	1
Fa. Azelis	Propylene glycol	11824b	1
Fa. Azelis	Propylene glycol	11824c1v2	1
Fa. Azelis	Propylene glycol	11824c2v2	1
Fagro / G	Propylene glycol	17H03-B04-344395	1
Fagron	Propylene glycol		3
Fagron	Propylene glycol	10101720	3
Fagron	Propylene glycol	1051821	2
Fagron	Propylene glycol	11372007	2
Fagron	Propylene glycol	11H04-N01	2
Fagron	Propylene glycol	11K28-N01	9
Fagron	Propylene glycol	11L22-N14	6
Fagron	Propylene glycol	12041920	10
Fagron	Propylene glycol	12088205	1
Fagron	Propylene glycol	120C004-277798	1
Fagron	Propylene glycol	12372403	1
Fagron	Propylene glycol	12C06-N04	6
Fagron	Propylene glycol	12g13-n07	2
Fagron	Propylene glycol	12G13-N07	29
Fagron	Propylene glycol	12G13-No7	1
Fagron	Propylene glycol	12G13-N07	4
Fagron	Propylene glycol	12J04-N06	11
Fagron	Propylene glycol	12k13-n05	1
Fagron	Propylene glycol	12K13-N05	13
Fagron	Propylene glycol	1301C003	3
Fagron	Propylene glycol	1301C003-277799	1
Fagron	Propylene glycol	1301C004	5
Fagron	Propylene glycol	1301C004-277798	16
Fagron	Propylene glycol	13040010-281099	1
Fagron	Propylene glycol	1304C009	6
Fagron	Propylene glycol	1304C009-28	1
Fagron	Propylene glycol	1304c009-281100	1
Fagron	Propylene glycol	1304C009-281100	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Propylene glycol	1304C010	10
Fagron	Propylene glycol	1304C-010	1
Fagron	Propylene glycol	1304c010-281099	4
Fagron	Propylene glycol	1304C010281099	1
Fagron	Propylene glycol	1304C010-281099	21
Fagron	Propylene glycol	1304CO10	1
Fagron	Propylene glycol	1307021-01	1
Fagron	Propylene glycol	1314Q2110	1
Fagron	Propylene glycol	13E22B03	2
Fagron	Propylene glycol	13E22-B03	11
Fagron	Propylene glycol	13E22B0328345	1
Fagron	Propylene glycol	13E22-B03-283450	22
Fagron	Propylene glycol	13E22-B03-283451	2
Fagron	Propylene glycol	13E22-B03-28350	1
Fagron	Propylene glycol	13E22Bo3283450	1
Fagron	Propylene glycol	13G09B01	2
Fagron	Propylene glycol	13G09-B01	5
Fagron	Propylene glycol	13G09-B01-283452	1
Fagron	Propylene glycol	13G09B01283456	1
Fagron	Propylene glycol	13G09-B01-283456	24
Fagron	Propylene glycol	1405003-01	1
Fagron	Propylene glycol	14346608	1
Fagron	Propylene glycol	14a09-b04	1
Fagron	Propylene glycol	14A09B04	4
Fagron	Propylene glycol	14A09-B04	16
Fagron	Propylene glycol	14A09-B04-28959	1
Fagron	Propylene glycol	14A09-B04-289597	21
Fagron	Propylene glycol	14A09-B04-289598	5
Fagron	Propylene glycol	14A09-B04-289599	5
Fagron	Propylene glycol	14A09-B04-289600	1
Fagron	Propylene glycol	14A09-Bo4-289597	1
Fagron	Propylene glycol	14C05-B02	4
Fagron	Propylene glycol	14C05B02295787	1
Fagron	Propylene glycol	14C05-B02-295787	10
Fagron	Propylene glycol	14C05-B02295788	1
Fagron	Propylene glycol	14C05-B02-295788	5
Fagron	Propylene glycol	14C09-B02-289597	1
Fagron	Propylene glycol	14H03-B04-340573	1
Fagron	Propylene glycol	14H22-B02	2
Fagron	Propylene glycol	14H22-B02-302506	7
Fagron	Propylene glycol	150403101	1
Fagron	Propylene glycol	15051721	2
Fagron	Propylene glycol	15052021	1
Fagron	Propylene glycol	15081620	7
Fagron	Propylene glycol	15262407	1
Fagron	Propylene glycol	15335407	1
Fagron	Propylene glycol	15430502	1
Fagron	Propylene glycol	15430503	1
Fagron	Propylene glycol	15A07_B04_302970	1
Fagron	Propylene glycol	15A07B04	3
Fagron	Propylene glycol	15A07-B04	5
Fagron	Propylene glycol	15A07-B04_302970	1
Fagron	Propylene glycol	15A07-B04-302969	10
Fagron	Propylene glycol	15A07-B04-30297	1
Fagron	Propylene glycol	15A07-B04-302970	24
Fagron	Propylene glycol	15B24-B40	4
Fagron	Propylene glycol	15B24-B40-307379	5
Fagron	Propylene glycol	15F25-B02-311890	6
Fagron	Propylene glycol	15G28-803-314758	1
Fagron	Propylene glycol	15G28-B03	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Propylene glycol	15G28-B03-311889	8
Fagron	Propylene glycol	15G-28-B03-311889	1
Fagron	Propylene glycol	15G28-B03-314768	25
Fagron	Propylene glycol	15G28-B03-314769	3
Fagron	Propylene glycol	15L23	1
Fagron	Propylene glycol	15L23-B01	1
Fagron	Propylene glycol	15L23-B01-3108036	1
Fagron	Propylene glycol	15L23-B01-31803	1
Fagron	Propylene glycol	15L23-B01-318036	17
Fagron	Propylene glycol	15L26-B01	1
Fagron	Propylene glycol	1610031-01	1
Fagron	Propylene glycol	16C10-B04	7
Fagron	Propylene glycol	16C-10-B04	1
Fagron	Propylene glycol	16C10-B04-319299	3
Fagron	Propylene glycol	16c10-b04-321081	1
Fagron	Propylene glycol	16C10-B04-321081	25
Fagron	Propylene glycol	16C10-B04-321082	1
Fagron	Propylene glycol	16C10-B04-321659	1
Fagron	Propylene glycol	16C10-B04-323302	4
Fagron	Propylene glycol	16C10-Bo4-321081	1
Fagron	Propylene glycol	16E09-B02	2
Fagron	Propylene glycol	16E09-B02-3024843	1
Fagron	Propylene glycol	16E09-B02-324	2
Fagron	Propylene glycol	16e09-b02-324843	1
Fagron	Propylene glycol	16E09-B02-324843	16
Fagron	Propylene glycol	16E09-B02-325331	4
Fagron	Propylene glycol	16G04-B01	2
Fagron	Propylene glycol	16G04B01328151	3
Fagron	Propylene glycol	16G04-B01-328151	18
Fagron	Propylene glycol	16G04-B01-329687	4
Fagron	Propylene glycol	17053804	1
Fagron	Propylene glycol	1708002-01	1
Fagron	Propylene glycol	17082015A	1
Fagron	Propylene glycol	17A06-B03	6
Fagron	Propylene glycol	17a06b03332091	1
Fagron	Propylene glycol	17A06-b03-332091	1
Fagron	Propylene glycol	17A06-B03-332091	20
Fagron	Propylene glycol	17A06B03334896	1
Fagron	Propylene glycol	17A06-B03-334896	7
Fagron	Propylene glycol	17E22	1
Fagron	Propylene glycol	17E22-B10	3
Fagron	Propylene glycol	17E22-B10-3365666	1
Fagron	Propylene glycol	17E22B10336830	3
Fagron	Propylene glycol	17E22-B10336830	1
Fagron	Propylene glycol	17E22-B10-336830	16
Fagron	Propylene glycol	17E22-B-10-336830	1
Fagron	Propylene glycol	17E22-B10-338768	3
Fagron	Propylene glycol	17H0304	1
Fagron	Propylene glycol	17H03-B03-340573	1
Fagron	Propylene glycol	17H03-B04	12
Fagron	Propylene glycol	17H03-B04_344395	1
Fagron	Propylene glycol	17H03-B04-340573	26
Fagron	Propylene glycol	17H03-B04-341721	1
Fagron	Propylene glycol	17h03b04344395	1
Fagron	Propylene glycol	17H03-B04-344395	24
Fagron	Propylene glycol	17W22-B10	1
Fagron	Propylene glycol	18005448	1
Fagron	Propylene glycol	18061311	1
Fagron	Propylene glycol	18061321	1
Fagron	Propylene glycol	18064902	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Propylene glycol	18064904	1
Fagron	Propylene glycol	18081121	1
Fagron	Propylene glycol	18091521	1
Fagron	Propylene glycol	181013prop	1
Fagron	Propylene glycol	1811028-05	1
Fagron	Propylene glycol	18219106	1
Fagron	Propylene glycol	18A19-B01	3
Fagron	Propylene glycol	18A19-B01-346655	5
Fagron	Propylene glycol	18a19-b01-348338	1
Fagron	Propylene glycol	18A19-B01-348338	14
Fagron	Propylene glycol	18A19-B01-349128	1
Fagron	Propylene glycol	18a19-b01-351127	1
Fagron	Propylene glycol	18A19-B01-351227	18
Fagron	Propylene glycol	18H07-B01	5
Fagron	Propylene glycol	18H07-B01_352703	1
Fagron	Propylene glycol	18H07B01352662	2
Fagron	Propylene glycol	18H07-B01-352662	14
Fagron	Propylene glycol	18h07b01352703	1
Fagron	Propylene glycol	18H07-B01-352703	33
Fagron	Propylene glycol	18H07-B01-353899	2
Fagron	Propylene glycol	18H0-B01-352662	1
Fagron	Propylene glycol	18I03-B07-355043	1
Fagron	Propylene glycol	18J03-B07	12
Fagron	Propylene glycol	18J03-B07_356433	1
Fagron	Propylene glycol	18j03b07355043	2
Fagron	Propylene glycol	18J03B07355043	1
Fagron	Propylene glycol	18J03-B07355043	1
Fagron	Propylene glycol	18J03-B07-355043	25
Fagron	Propylene glycol	18j03-b07-356433	1
Fagron	Propylene glycol	18J03-b07-356433	1
Fagron	Propylene glycol	18J03-B07356433	1
Fagron	Propylene glycol	18J03-B07-356433	28
Fagron	Propylene glycol	18J03-B07-356435	1
Fagron	Propylene glycol	18J03-B07-357162	1
Fagron	Propylene glycol	18j03-b07-358066	1
Fagron	Propylene glycol	18J03-B07-358066	3
Fagron	Propylene glycol	19/27-F03-365136	2
Fagron	Propylene glycol	19/27-F03-365557	2
Fagron	Propylene glycol	19/27-FO3-365136	1
Fagron	Propylene glycol	19111421	5
Fagron	Propylene glycol	19127-F03-365136	1
Fagron	Propylene glycol	19127-F03-365557	2
Fagron	Propylene glycol	19127-f03-365558	1
Fagron	Propylene glycol	19127-FO-365557	1
Fagron	Propylene glycol	19A28	1
Fagron	Propylene glycol	19A28-809-361175	1
Fagron	Propylene glycol	19A28-B01-361175	1
Fagron	Propylene glycol	19A28B09	1
Fagron	Propylene glycol	19A28-B09	8
Fagron	Propylene glycol	19A28-B09-261175	1
Fagron	Propylene glycol	19A28-B09-361175	33
Fagron	Propylene glycol	19A28-B09-361176	2
Fagron	Propylene glycol	19A28-B09-361193	2
Fagron	Propylene glycol	19a8-b09-361175	1
Fagron	Propylene glycol	19A-B09-361175	1
Fagron	Propylene glycol	19E20-B01	6
Fagron	Propylene glycol	19E20-B01-12041920	1
Fagron	Propylene glycol	19e20-b01-362176	2
Fagron	Propylene glycol	19E20B01362176	1
Fagron	Propylene glycol	19E20-B01362176	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Propylene glycol	19E20-B01-362176	37
Fagron	Propylene glycol	19E20-B01-36217612041920	1
Fagron	Propylene glycol	19E20-B01-362177	11
Fagron	Propylene glycol	19E20-B01-363217	1
Fagron	Propylene glycol	19E20-bo1-362176	1
Fagron	Propylene glycol	19E20-BO1-362176	1
Fagron	Propylene glycol	19E-B01-362176	1
Fagron	Propylene glycol	19G04	1
Fagron	Propylene glycol	19G04-803-363220	1
Fagron	Propylene glycol	19G04-B03	9
Fagron	Propylene glycol	19g04-b03-363220	1
Fagron	Propylene glycol	19G04-B03-363220	36
Fagron	Propylene glycol	19G94-B03-363220	1
Fagron	Propylene glycol	19GO4-B03-363220	1
Fagron	Propylene glycol	19I27-F03	5
Fagron	Propylene glycol	19I27-F03-3651306	1
Fagron	Propylene glycol	19I27F03365136	1
Fagron	Propylene glycol	19I27-F03-365136	14
Fagron	Propylene glycol	19I27F03365557	1
Fagron	Propylene glycol	19I27-F03-365557	12
Fagron	Propylene glycol	19I27-F03-365558	3
Fagron	Propylene glycol	19I27-FO3	1
Fagron	Propylene glycol	19I27-FO3-365136	1
Fagron	Propylene glycol	19l27-F03-3651306	1
Fagron	Propylene glycol	19l27-FO3-365558	1
Fagron	Propylene glycol	200749-0001	1
Fagron	Propylene glycol	200749-0005	2
Fagron	Propylene glycol	200749-0005/19G04-B03-363220	1
Fagron	Propylene glycol	200749-B04-289597	1
Fagron	Propylene glycol	20122013B	1
Fagron	Propylene glycol	2021621	2
Fagron	Propylene glycol	20F04-F05	3
Fagron	Propylene glycol	20f04f05371328	1
Fagron	Propylene glycol	20F04-F05-371328	12
Fagron	Propylene glycol	20F04-F05-371329	2
Fagron	Propylene glycol	20F04-F05-37328	1
Fagron	Propylene glycol	20G14-F03	2
Fagron	Propylene glycol	20G14-F03-373219	3
Fagron	Propylene glycol	20j05-f08	1
Fagron	Propylene glycol	20J05-F08	7
Fagron	Propylene glycol	20j05f08374459	1
Fagron	Propylene glycol	20J05F08374459	1
Fagron	Propylene glycol	20J05-F08374459	1
Fagron	Propylene glycol	20J05-F08-374459	13
Fagron	Propylene glycol	20J05-F08-374460	2
Fagron	Propylene glycol	20j05-f08-374464	1
Fagron	Propylene glycol	20J05-F08-374464	7
Fagron	Propylene glycol	20J05-F08-3744654	1
Fagron	Propylene glycol	20J05-F08-375549	1
Fagron	Propylene glycol	2101820	5
Fagron	Propylene glycol	2112212110	1
Fagron	Propylene glycol	21e25-t03-088477	1
Fagron	Propylene glycol	21E25T03088477	1
Fagron	Propylene glycol	21E25-T03-088477	10
Fagron	Propylene glycol	21E-25-T03-088477	1
Fagron	Propylene glycol	21E25-TO3-088477	1
Fagron	Propylene glycol	21E25-TO3-088478	1
Fagron	Propylene glycol	21F10-F03-380281	4
Fagron	Propylene glycol	21F10-FO3-380281	1
Fagron	Propylene glycol	22A27-T12-093889	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Propylene glycol	23011420	1
Fagron	Propylene glycol	23021320	1
Fagron	Propylene glycol	24014556P0	1
Fagron	Propylene glycol	24014556P0	2
Fagron	Propylene glycol	24041221	8
Fagron	Propylene glycol	25082020	2
Fagron	Propylene glycol	26021320	5
Fagron	Propylene glycol	270114A	1
Fagron	Propylene glycol	280714C	1
Fagron	Propylene glycol	2F04-F05-371328	1
Fagron	Propylene glycol	30041621	1
Fagron	Propylene glycol	336830	2
Fagron	Propylene glycol	365557	1
Fagron	Propylene glycol	3959/V02/15	1
Fagron	Propylene glycol	4061821	2
Fagron	Propylene glycol	41758575L0	1
Fagron	Propylene glycol	5021520	3
Fagron	Propylene glycol	50515PJK01	1
Fagron	Propylene glycol	5115Q-02110	1
Fagron	Propylene glycol	6031720	2
Fagron	Propylene glycol	6071520	4
Fagron	Propylene glycol	8021621	4
Fagron	Propylene glycol	8121120	1
Fagron	Propylene glycol	9031321	1
Fagron	Propylene glycol	9031520	1
Fagron	Propylene glycol	9051220	6
Fagron	Propylene glycol	9G04-B03-3632201	1
Fagron	Propylene glycol	B01-351227	1
Fagron	Propylene glycol	B01-3621706	5
Fagron	Propylene glycol	B01-3621707	2
Fagron	Propylene glycol	B09-3611705	2
Fagron	Propylene glycol	B09-361175	1
Fagron	Propylene glycol	F03-3651306	2
Fagron	Propylene glycol	F03-3655507	2
Fagron	Propylene glycol	F04-F05-371328	1
Fagron	Propylene glycol	F08-3744509	1
Fagron	Propylene glycol	F08-3744604	2
Fagron	Propylene glycol	T03-0884707	5
Fagron	Propylene glycol	T12-0938809	2
Fagron	Propylene glycol	TQ131410	2
Fagron	Propylene glycol	TQ191812	5
Fargon/AHD	Propylene glycol	18H07-B01	1
Fargon/AHD	Propylene glycol	18H07-B01-352703	1
Fargon/Noweda	Propylene glycol	18J03-B07-356433	1
Fargon/Noweda	Propylene glycol	19A28-B09-361175	2
Fargon	Propylene glycol	12K13-N05	2
Fargon	Propylene glycol	16C10-B04-321081	1
Fargon	Propylene glycol	17A06-B03-332091	1
Fargon	Propylene glycol	17A06-B03-334896	1
Fargon	Propylene glycol	17A06-B03-332091	1
Fargon	Propylene glycol	17E22-B10-336830	1
Fargron	Propylene glycol	16G04-B01	1
Fgron / Alliance Healthc.	Propylene glycol	17A06-B03-334896	1
Fiebig/Lamotte	Propylene glycol	6012897001	2
Fiebig/Lamotte	Propylene glycol	6016860001	7
Fiebig	Propylene glycol	1000002768	1
Fiebig	Propylene glycol	1000007047	6
Fiebig	Propylene glycol	12099	1
Fiebig	Propylene glycol	18064908	1
Fiebig	Propylene glycol	21002539009	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Propylene glycol	6012897001	7
Fiebig	Propylene glycol	6016860001	2
Fiebig	Propylene glycol	8002520002	4
Fiebig	Propylene glycol	8003093001	4
fischar	Propylene glycol	13G09B01	1
Fischbar	Propylene glycol	18091201	1
Fragon/ Fragon	Propylene glycol	19E20-B01-362177	1
Fragon/Gehe	Propylene glycol	19A28-B09-361175	1
Fragon/Phoenix	Propylene glycol	18A19-B01	1
Fragon/Sana	Propylene glycol	18H07-B01	1
Fragon	Propylene glycol	20J05-F08-374460	1
fragron/Gehe	Propylene glycol	18H07-B01-352703	1
Gatt-Koller	Propylene glycol	1801516	3
GEHE 06.05.2014	Propylene glycol	13256705	2
Gehe 3.3.15	Propylene glycol	14C05-B02-295787	1
Gehe amax	Propylene glycol	15262409	1
Gehe amax	Propylene glycol	16251201	1
Gehe amax	Propylene glycol	16251205	3
Gehe amax	Propylene glycol	17053804	1
Gehe amax	Propylene glycol	17321703	2
Gehe amax	Propylene glycol	18064904	1
Gehe amax	Propylene glycol	18064915	1
Gehe amax	Propylene glycol	19246101	3
GEHE Kassel 11.04.2019	Propylene glycol	18J03-B07-355043	2
Gehe Pharma	Propylene glycol	8007215001	1
Gehe, 01.03.19	Propylene glycol	1000007047	1
GEHE/Caesar & Loretz GmbH	Propylene glycol	19230103	1
Gehe/EuRho	Propylene glycol	1906034-01	1
Gehe/Henry Lamotte	Propylene glycol	8002520002	1
Gehe/L10	Propylene glycol	18064915	1
Gehe/Lamotte	Propylene glycol	8003093001	2
Gehe	Propylene glycol	1000001132	3
Gehe	Propylene glycol	1000002768	2
Gehe	Propylene glycol	1000002992	2
GEHE	Propylene glycol	1000007047	2
Gehe	Propylene glycol	11300506	1
Gehe	Propylene glycol	11372007	3
GEHE	Propylene glycol	11372007	1
Gehe	Propylene glycol	11372009	1
Gehe	Propylene glycol	12088207	1
Gehe	Propylene glycol	12169802	1
Gehe	Propylene glycol	12372405	2
Gehe	Propylene glycol	125099	4
Gehe	Propylene glycol	13100908	3
Gehe	Propylene glycol	13167003	2
Gehe	Propylene glycol	13256704	2
Gehe	Propylene glycol	14051802	1
Gehe	Propylene glycol	14346602	3
Gehe	Propylene glycol	14C05-B02-295787	1
Gehe	Propylene glycol	15069202	1
Gehe	Propylene glycol	15181604	1
Gehe	Propylene glycol	15181605	1
Gehe	Propylene glycol	15262406	1
Gehe	Propylene glycol	15335403	1
Gehe	Propylene glycol	15335404	1
Gehe	Propylene glycol	15355108	1
Gehe	Propylene glycol	1540508	1
Gehe	Propylene glycol	15430508	2
Gehe	Propylene glycol	15430512	1
Gehe	Propylene glycol	15A07-B04-302969	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Propylene glycol	1606014-01	1
Gehe	Propylene glycol	16251201	4
Gehe	Propylene glycol	16251202	2
Gehe	Propylene glycol	16251205	3
Gehe	Propylene glycol	16251206	1
Gehe	Propylene glycol	16251207	1
GEHE	Propylene glycol	16G04-B01-328151	1
Gehe	Propylene glycol	17053801	1
Gehe	Propylene glycol	17053804	1
Gehe	Propylene glycol	17053806	2
Gehe	Propylene glycol	17053809	2
Gehe	Propylene glycol	17321703	1
GEHE	Propylene glycol	17321703	2
Gehe	Propylene glycol	17321705	1
Gehe	Propylene glycol	17A06-B03-332091	1
GEHE	Propylene glycol	17A06-B03-332091	1
GEHE	Propylene glycol	17H03-B04-340573	1
Gehe	Propylene glycol	17H03-B04-340753	1
Gehe	Propylene glycol	18064901	1
Gehe	Propylene glycol	18064912	1
Gehe	Propylene glycol	18064915	4
Gehe	Propylene glycol	18065904	1
Gehe	Propylene glycol	18219101	1
Gehe	Propylene glycol	18H07-B01-352703	2
Gehe	Propylene glycol	18J03-B07-356433	1
Gehe	Propylene glycol	19A28-B09-361175	1
Gehe	Propylene glycol	19E20-B01	2
Gehe	Propylene glycol	19I27-F03-365557	1
Gehe	Propylene glycol	20000779002	2
Gehe	Propylene glycol	5671401	1
Gehe	Propylene glycol	6012897001	3
GEHE	Propylene glycol	6012897001	7
Gehe	Propylene glycol	6016860001	5
GEHE	Propylene glycol	6016860001	1
gehe	Propylene glycol	8002520002	1
Gehe	Propylene glycol	8002520002	2
Gehe	Propylene glycol	8003093001	2
Gehe	Propylene glycol	8006970001	6
Gehe	Propylene glycol	800697001	1
Geibo/Lamotte 29.8.	Propylene glycol	6012897001	1
GUMO	Propylene glycol	20000779005	1
H.Lamotte 19.03.20	Propylene glycol	6016860001	1
H.Lamotte/ Phönix	Propylene glycol	8007215001	1
H.Lamotte/Anzag 10.12.2...	Propylene glycol	6012897001	1
H.Lamotte/Anzag 16.05.17	Propylene glycol	8002520002	2
H.Lamotte/Anzag 21.11.17	Propylene glycol	8003093001	1
H.Lamotte/anzag 30.12.16	Propylene glycol	1000002992	1
H.Lamotte/Jenne	Propylene glycol	6016860001	2
H.Lamotte/Jenne	Propylene glycol	8006970001	1
H.Lamotte	Propylene glycol	1000002768	2
H.Lamotte	Propylene glycol	1000007047	2
H.Lamotte	Propylene glycol	8002520002	2
H.Lamotte	Propylene glycol	8003093001	1
H.Lamotte	Propylene glycol	8007215001	2
Hänseler	Propylene glycol	2019030355	1
Hedinger vdL	Propylene glycol	16251202	2
Hedinger / Noweda	Propylene glycol	291005B	1
Hedinger /Phönix	Propylene glycol	29934B	3
Hedinger /Phönix	Propylene glycol	29945B	3
Hedinger /Phönix	Propylene glycol	29963B	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger GmbH	Propylene glycol	29905b	1
Hedinger/ Sanacorp	Propylene glycol	29743B	1
Hedinger/Alliance Heath...	Propylene glycol	29775B	1
Hedinger/Alliance	Propylene glycol	29897B	1
Hedinger/Alliance	Propylene glycol	29905B	1
Hedinger/Alliance	Propylene glycol	29934B	1
Hedinger/Noweda	Propylene glycol	6016860001	2
Hedinger/Phoenix	Propylene glycol	291020B	1
Hedinger/Phoenix	Propylene glycol	29762B	2
Hedinger/Phönix	Propylene glycol	192461006	1
Hedinger/Phönix	Propylene glycol	291005B	1
Hedinger/Phönix	Propylene glycol	291020B	1
Hedinger/Phönix	Propylene glycol	29775B	1
Hedinger/Phönix	Propylene glycol	29797B	1
Hedinger/Phönix	Propylene glycol	29847B	1
Hedinger/phönix	Propylene glycol	29859B	1
Hedinger/Phönix	Propylene glycol	29934B	1
Hedinger/Phönix	Propylene glycol	29994B	3
Hedinger/Sanacorp	Propylene glycol	1304C010-281099	1
Hedinger/Sanacorp	Propylene glycol	15A07-B04-302969	1
Hedinger/Sanacorp	Propylene glycol	29823B	1
Hedinger/Sanacorp	Propylene glycol	29945B	1
Hedinger/VDL	Propylene glycol	29847B	1
Hedinger/VDL	Propylene glycol	29859B	1
Hedinger	Propylene glycol	18064915	2
Hedinger	Propylene glycol	291020B	1
Hedinger	Propylene glycol	291037B	3
Hedinger	Propylene glycol	291053B	1
Hedinger	Propylene glycol	29625B	1
Hedinger	Propylene glycol	29702B	1
Hedinger	Propylene glycol	29775B	1
Hedinger	Propylene glycol	29797B	2
Hedinger	Propylene glycol	29823B	1
Hedinger	Propylene glycol	29837B	1
Hedinger	Propylene glycol	29859B	1
Hedinger	Propylene glycol	29859BP	1
Hedinger	Propylene glycol	29897B	1
Hedinger	Propylene glycol	29905B	1
Hedinger	Propylene glycol	29930B	3
Hedinger	Propylene glycol	29934B	1
Hedinger	Propylene glycol	29945B	1
Hedinger	Propylene glycol	2994B	1
Hedinger	Propylene glycol	29975B	2
Hennry Lamotte Oils Gmb...	Propylene glycol	6016860001	2
Hennry Lamotte Oils Gmb...	Propylene glycol	8006970001	5
Henr	Propylene glycol	1000002768	1
Henry Lam./ Phönix	Propylene glycol	123095	1
Henry Lamortte	Propylene glycol	1000002992	1
Henry Lamortte	Propylene glycol	125099	1
Henry Lamortte	Propylene glycol	6012897001	3
Henry Lamotte / Allianc...	Propylene glycol	1000001132	2
Henry Lamotte / Allianc...	Propylene glycol	125099	1
Henry Lamotte / Anzag	Propylene glycol	120(6012897001)	1
Henry Lamotte / Fiebig	Propylene glycol	8007215001	2
henry lamotte / Gehe	Propylene glycol	1000007047	3
Henry Lamotte / GEHE	Propylene glycol	6012897001	1
Henry Lamotte / Jenne	Propylene glycol	118(1000007047)	1
Henry Lamotte / Krieger	Propylene glycol	6016860001	1
Henry Lamotte / Noweda	Propylene glycol	1000002768	1
Henry Lamotte / Noweda	Propylene glycol	1000007047	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte / Noweda	Propylene glycol	6016860001	1
Henry Lamotte / Noweda	Propylene glycol	8002520002	1
Henry Lamotte / Sanacorp	Propylene glycol	125099	1
Henry Lamotte / Sanacorp	Propylene glycol	8002520002	1
Henry Lamotte / Sanacorp	Propylene glycol	8003093001	1
Henry Lamotte /Gehe	Propylene glycol	6012897001	1
Henry Lamotte /Jenne	Propylene glycol		1
Henry Lamotte /Jenne	Propylene glycol	117(1000007047)	1
Henry Lamotte /Jenne	Propylene glycol	119(6012897001)	1
Henry Lamotte /Jenne	Propylene glycol	121(6012897001)	1
Henry Lamotte /Jenne	Propylene glycol	127(8006970001)	1
Henry Lamotte /Jenne	Propylene glycol	128(8007215001)	1
Henry Lamotte /Jenne	Propylene glycol	220804(8008774001)	1
Henry Lamotte /Sanacorp	Propylene glycol	6012897001	2
Henry Lamotte /Sanacorp	Propylene glycol	6016860001	2
Henry Lamotte /Sanacorp	Propylene glycol	800725001	1
Henry Lamotte Bremen /A...	Propylene glycol	8006970001	1
Henry Lamotte Bremen/Al...	Propylene glycol	6012897001	1
Henry Lamotte GmbH/Phönix	Propylene glycol	8002520002	1
Henry Lamotte GmbH	Propylene glycol	1000002768	1
Henry Lamotte GmbH	Propylene glycol	1000002992	1
Henry Lamotte GMbH	Propylene glycol	125099	1
Henry Lamotte Oels GmbH	Propylene glycol	6012897001	1
Henry Lamotte Oils / No...	Propylene glycol	1000001132	1
Henry Lamotte Oils / No...	Propylene glycol	125099	2
Henry Lamotte Oils / Sa...	Propylene glycol	6016860001	1
Henry Lamotte Oils / Sa...	Propylene glycol	8007215001	1
Henry lamotte Oils /Gehe	Propylene glycol	6012897001	1
Henry Lamotte Oils GmbH...	Propylene glycol	125099	1
Henry Lamotte Oils GmbH...	Propylene glycol	1000007047	1
Henry Lamotte Oils GmbH...	Propylene glycol	123095	1
Henry Lamotte Oils GmbH...	Propylene glycol	1000002992	1
Henry Lamotte Oils GmbH...	Propylene glycol	1000007047	1
Henry Lamotte Oils GmbH...	Propylene glycol	8002520002	1
Henry Lamotte Oils GmbH...	Propylene glycol	125099	2
Henry Lamotte Oils GmbH...	Propylene glycol	6012897001	1
Henry Lamotte Oils GmbH...	Propylene glycol	6012897001	1
Henry Lamotte Oils GmbH...	Propylene glycol	8002520002	1
Henry Lamotte Oils GmbH...	Propylene glycol	6016860001	4
Henry Lamotte Oils GmbH...	Propylene glycol	6016860001	2
Henry Lamotte Oils GmbH...	Propylene glycol	6012897001	1
Henry Lamotte Oils GmbH...	Propylene glycol	1000007047	3
Henry Lamotte Oils GMBH...	Propylene glycol	8002520002	4
Henry Lamotte Oils GmbH...	Propylene glycol	1000001132	3
Henry Lamotte Oils GmbH/	Propylene glycol	8003093001	1
Henry Lamotte Oils GmbH...	Propylene glycol	1000007047	1
Henry Lamotte Oils GmbH...	Propylene glycol	6012897001	4
Henry Lamotte Oils GmbH...	Propylene glycol	8003093001	2
Henry Lamotte Oils GmbH...	Propylene glycol	8007215001	1
Henry Lamotte Oils GMBH...	Propylene glycol	6016860001	1
Henry Lamotte Oils GMBH...	Propylene glycol	1000007047	5
Henry Lamotte Oils GmbH...	Propylene glycol	6012897001	3
Henry Lamotte Oils GMBH...	Propylene glycol	6012897001	4
Henry Lamotte Oils GmbH...	Propylene glycol	8002520002	1
Henry Lamotte Oils GmbH...	Propylene glycol	6012897001	1
Henry Lamotte Oils GmbH...	Propylene glycol	6012897001	1
Henry Lamotte Oils GmbH...	Propylene glycol	8006970001	1
Henry Lamotte Oils GmbH...	Propylene glycol	8002520002	2
Henry Lamotte Oils GmbH...	Propylene glycol	1000007047	2
Henry Lamotte Oils GmbH...	Propylene glycol	6012897001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils GmbH…	Propylene glycol	8003093001	2
Henry Lamotte Oils GmbH…	Propylene glycol	8003093001	1
Henry Lamotte Oils GmbH…	Propylene glycol	1000001132	2
Henry Lamotte Oils GmbH…	Propylene glycol	6016860001	2
Henry Lamotte Oils GmbH…	Propylene glycol	8003093001	1
Henry Lamotte Oils GmbH…	Propylene glycol	8007215001	1
Henry Lamotte Oils GmbH…	Propylene glycol	1000007047	4
Henry Lamotte Oils GmbH…	Propylene glycol	123095	1
Henry Lamotte Oils GmbH…	Propylene glycol	5671401	1
Henry Lamotte Oils GmbH…	Propylene glycol	6012897001	3
Henry Lamotte Oils GmbH…	Propylene glycol	8002520002	1
Henry Lamotte Oils GmbH…	Propylene glycol	8006970001	2
Henry Lamotte Oils GmbH…	Propylene glycol	8007215001	1
Henry Lamotte Oils GmbH…	Propylene glycol	8007215001	2
Henry Lamotte Oils GmbH…	Propylene glycol	1000007047	1
Henry Lamotte Oils GmbH…	Propylene glycol	6012897001	1
Henry Lamotte Oils GmbH…	Propylene glycol	6016860001	2
Henry Lamotte Oils GmbH…	Propylene glycol	8002520002	1
Henry Lamotte Oils GmbH	Propylene glycol	1000001132	6
Henry Lamotte Oils GmbH	Propylene glycol	1000002768	4
Henry Lamotte Oils GmbH	Propylene glycol	1000002992	3
Henry Lamotte oils GmbH	Propylene glycol	1000007047	1
Henry Lamotte Oils GmbH	Propylene glycol	1000007047	13
HENRY LAMOTTE OILS GmbH	Propylene glycol	1000007047	1
Henry Lamotte Oils GmbH	Propylene glycol	1000016713	1
Henry Lamotte oils GmbH	Propylene glycol	123095	1
Henry Lamotte Oils GmbH	Propylene glycol	123095	2
Henry Lamotte oils GmbH	Propylene glycol	125099	1
Henry Lamotte Oils GmbH	Propylene glycol	125099	4
Henry Lamotte Oils GmbH	Propylene glycol	168600016	1
Henry Lamotte Oils GmbH	Propylene glycol	5471401	1
Henry Lamotte Oils GmbH	Propylene glycol	5671401	11
Henry Lamotte oils GmbH	Propylene glycol	6012897001	1
Henry Lamotte Oils GmbH	Propylene glycol	6012897001	13
HENRY LAMOTTE OILS GmbH	Propylene glycol	6012897001	1
Henry Lamotte Oils GmbH	Propylene glycol	60129897001	1
Henry Lamotte oils GmbH	Propylene glycol	6016860001	2
Henry Lamotte Oils GmbH	Propylene glycol	6016860001	10
HENRY LAMOTTE OILS GmbH	Propylene glycol	6016860001	2
HENRY LAMOTTE OILS GmbH	Propylene glycol	6021897001	1
henry lamotte oils gmbh	Propylene glycol	8002520002	1
Henry Lamotte Oils GmbH	Propylene glycol	8002520002	6
HENRY LAMOTTE OILS GmbH	Propylene glycol	8002520002	1
Henry Lamotte oils GmbH	Propylene glycol	8003093001	1
Henry Lamotte Oils GmbH	Propylene glycol	8003093001	7
Henry Lamotte Oils GmbH	Propylene glycol	8006970001	7
HENRY LAMOTTE OILS GmbH	Propylene glycol	8006970001	1
Henry Lamotte oils GmbH	Propylene glycol	8007215001	1
Henry Lamotte Oils GmbH	Propylene glycol	8007215001	7
Henry Lamotte Oils GmbH	Propylene glycol	8008774001	5
Henry Lamotte oils GmbH	Propylene glycol	807215001	1
Henry Lamotte Oils/ Gehe	Propylene glycol	1000002992	1
Henry Lamotte Oils/ Gehe	Propylene glycol	1000007047	1
Henry Lamotte Oils/ Gehe	Propylene glycol	8002520002	1
Henry Lamotte Oils/ Gehe	Propylene glycol	8003093001	1
Henry Lamotte Oils/ NOW…	Propylene glycol	8003093001	1
Henry Lamotte Oils/ San…	Propylene glycol	1000007047	1
Henry Lamotte Oils/GEHE	Propylene glycol	6016860001	1
Henry Lamotte Oils/Gehe	Propylene glycol	8003093001	1
Henry Lamotte Oils/Noweda	Propylene glycol	6012897001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte oils/noweda	Propylene glycol	6016860001	1
Henry Lamotte Oils/Noweda	Propylene glycol	6016860001	1
Henry Lamotte Oils/Noweda	Propylene glycol	8006970001	1
Henry Lamotte Oils/Phoe...	Propylene glycol	6012897001	1
Henry Lamotte Oils/Phönix	Propylene glycol	1000002768	1
Henry Lamotte Oils/Phönix	Propylene glycol	1000007047	2
Henry Lamotte Oils/Phönix	Propylene glycol	8002520002	2
Henry Lamotte Oils/Phönix	Propylene glycol	8003093001	1
Henry Lamotte Oils	Propylene glycol	1000001132	1
Henry Lamotte Oils	Propylene glycol	1000002992	1
Henry Lamotte Oils	Propylene glycol	1000007047	4
Henry Lamotte Oils	Propylene glycol	122880	1
Henry Lamotte Oils	Propylene glycol	123095	3
Henry Lamotte Oils	Propylene glycol	125099	2
Henry Lamotte Oils	Propylene glycol	6012897001	1
Henry Lamotte oils	Propylene glycol	6016860001	4
Henry Lamotte Oils	Propylene glycol	6016860001	11
Henry Lamotte Oils	Propylene glycol	702140I	1
Henry Lamotte Oils	Propylene glycol	8002520002	6
Henry Lamotte Oils	Propylene glycol	8003093001	2
Henry Lamotte Olis GmbH...	Propylene glycol	10000001132	1
Henry Lamotte Olis GmbH...	Propylene glycol	1000007047	1
Henry Lamotte Olis GmbH...	Propylene glycol	6012897001	1
Henry Lamotte Olis GmbH...	Propylene glycol	6016860001	2
Henry Lamotte Olis GmbH...	Propylene glycol	8003093001	2
Henry Lamotte Olis GmbH...	Propylene glycol	8007215001	1
Henry Lamotte Olis GmbH	Propylene glycol	1000001132	1
Henry Lamotte Olis GmbH	Propylene glycol	1000002768	1
Henry Lamotte Olis GmbH	Propylene glycol	8002520002	1
Henry Lamotte Olis GmbH	Propylene glycol	8003093001	1
Henry Lamotte Olis GmbH	Propylene glycol	8006970001	1
Henry Lamotte,Gehe 08.1...	Propylene glycol	1000007047-P20190115	1
Henry Lamotte,Gehe 3.4.18	Propylene glycol	8003093001-20180404M	1
Henry Lamotte,Gehe 4.4.17	Propylene glycol		1
Henry Lamotte,Phönix	Propylene glycol	123095	2
Henry Lamotte/ AHD	Propylene glycol	1000007047	1
Henry Lamotte/ AHD	Propylene glycol	8002520002	1
Henry Lamotte/ Alliance...	Propylene glycol	1000007047	1
Henry Lamotte/ Alliance	Propylene glycol	1000002768	1
Henry Lamotte/ Alliance	Propylene glycol	1000002992	1
Henry Lamotte/ Alliance	Propylene glycol	1000007047	1
Henry Lamotte/ Alliance	Propylene glycol	8002520002	1
Henry Lamotte/ Alliance	Propylene glycol	8003093001	1
Henry Lamotte/ Gehe	Propylene glycol	6012897001	2
Henry Lamotte/ Gehe	Propylene glycol	8007215001	2
Henry Lamotte/ Geilenki...	Propylene glycol	6012897001	3
Henry Lamotte/ Kehr	Propylene glycol	1000002768	1
Henry Lamotte/ Kehr	Propylene glycol	1000007047	1
Henry Lamotte/ Kehr	Propylene glycol	125099	1
Henry Lamotte/ Krieger	Propylene glycol	1000002992	1
Henry Lamotte/ Noweda	Propylene glycol	1000001132	2
Henry Lamotte/ Noweda	Propylene glycol	6012897001	5
Henry Lamotte/ Noweda	Propylene glycol	6016860001	1
Henry Lamotte/ Sanacorp	Propylene glycol	6012897001	1
Henry Lamotte/ Sanacorp	Propylene glycol	6016860001	1
Henry Lamotte/ Sanacorp	Propylene glycol	8006970001	3
Henry Lamotte/ Sanacorp	Propylene glycol	8007215001	2
Henry Lamotte/ Spangro	Propylene glycol	8003093001	1
Henry Lamotte/AHD/ 03.0...	Propylene glycol	8006970001	1
Henry Lamotte/AHD	Propylene glycol	113(8003093001)	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/AHD	Propylene glycol	448(8003093001)	1
Henry Lamotte/AHD	Propylene glycol	6016860001	1
Henry Lamotte/AHD	Propylene glycol	8006970001	1
Henry Lamotte/Alliance	Propylene glycol	6012897001	1
Henry Lamotte/Alliance	Propylene glycol	8002520002	1
Henry Lamotte/Allianz H.	Propylene glycol	6016860001	1
Henry Lamotte/Anzag	Propylene glycol	5671401	1
Henry Lamotte/Anzag	Propylene glycol	6016860001	1
Henry Lamotte/EJ	Propylene glycol	1000007047	4
Henry Lamotte/Fiebig	Propylene glycol	6016860001	2
Henry Lamotte/Fiebig	Propylene glycol	8002520002	1
Henry Lamotte/Gehe	Propylene glycol	1000007047	4
Henry Lamotte/Gehe	Propylene glycol	6012897001	2
Henry Lamotte/Gehe	Propylene glycol	6016860001	7
henry lamotte/gehe	Propylene glycol	8002520002	1
Henry Lamotte/Gehe	Propylene glycol	8006970001	1
henry lamotte/gehe	Propylene glycol	8007215001	1
Henry Lamotte/Gehe	Propylene glycol	8007215001	1
Henry Lamotte/Geilenkir...	Propylene glycol	1000007047	3
Henry Lamotte/Jenne	Propylene glycol	1000016713	1
Henry Lamotte/Jenne	Propylene glycol	111(8003093001)	1
Henry Lamotte/Jenne	Propylene glycol	112(8003093001)	1
Henry Lamotte/Jenne	Propylene glycol	115(1000007047)	1
Henry Lamotte/Jenne	Propylene glycol	6012897001	2
Henry Lamotte/Jenne	Propylene glycol	6016860001	3
Henry Lamotte/Jenne	Propylene glycol	8003093001	3
Henry Lamotte/Jenne	Propylene glycol	8006397001	1
Henry Lamotte/Jenne	Propylene glycol	8007215001	1
Henry Lamotte/Kehr	Propylene glycol	1000016713	1
Henry Lamotte/Kehr	Propylene glycol	6012897001	1
Henry Lamotte/Krieger	Propylene glycol	8008774001	2
Henry Lamotte/Noweda	Propylene glycol	125099	5
Henry Lamotte/Noweda	Propylene glycol	6012897001	1
Henry Lamotte/Noweda	Propylene glycol	6016860001	2
Henry Lamotte/Noweda	Propylene glycol	8002520002	1
Henry Lamotte/Noweda	Propylene glycol	8006970001	1
Henry Lamotte/Noweda	Propylene glycol	8007215001	2
Henry Lamotte/Phoenix	Propylene glycol	1000016713	1
Henry Lamotte/Phoenix	Propylene glycol	125099	2
Henry lamotte/Phoenix	Propylene glycol	6016860001	2
Henry Lamotte/Phönix 9....	Propylene glycol	8002520002	1
Henry Lamotte/Phönix	Propylene glycol	1000002768	1
Henry Lamotte/Phönix	Propylene glycol	1000007047	1
Henry Lamotte/Phönix	Propylene glycol	6016860001	1
Henry Lamotte/Phönix	Propylene glycol	8002520002	1
Henry Lamotte/Phönix	Propylene glycol	8003093001	1
Henry Lamotte/Phönix	Propylene glycol	8006970001	1
Henry Lamotte/Phönix	Propylene glycol	8007215001	3
Henry Lamotte/Phönix	Propylene glycol	8008774001	1
Henry Lamotte/Sanacorp	Propylene glycol	1000001132	1
Henry Lamotte/Sanacorp	Propylene glycol	1000002992	2
Henry Lamotte/Sanacorp	Propylene glycol	100001132	1
Henry Lamotte/Sanacorp	Propylene glycol	6012897001	3
Henry Lamotte/Sanacorp	Propylene glycol	6016860001	5
Henry Lamotte/Sanacorp	Propylene glycol	8002520002	2
Henry Lamotte/Sanacorp	Propylene glycol	8003093001	5
henry lamotte	Propylene glycol	1000001132	1
Henry Lamotte	Propylene glycol	1000001132	18
Henry Lamotte	Propylene glycol	1000002768	8
Henry Lamotte	Propylene glycol	1000002992	9

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte	Propylene glycol	1000007047	7
Henry Lamotte	Propylene glycol	100000747	1
Henry Lamotte	Propylene glycol	1000016713	1
Henry Lamotte	Propylene glycol	123095	14
henry lamotte	Propylene glycol	125099	1
Henry Lamotte	Propylene glycol	125099	5
Henry Lamotte	Propylene glycol	2992	1
Henry Lamotte	Propylene glycol	5671401	4
Henry Lamotte	Propylene glycol	60128597001	1
henry lamotte	Propylene glycol	6012897001	1
Henry Lamotte	Propylene glycol	6012897001	14
Henry Lamotte	Propylene glycol	60168600001	1
Henry Lamotte	Propylene glycol	6016860001	16
Henry Lamotte	Propylene glycol	8002520002	15
Henry Lamotte	Propylene glycol	800252002	1
Henry Lamotte	Propylene glycol	8003093001	9
Henry Lamotte	Propylene glycol	8006970001	2
Henry Lamotte	Propylene glycol	8007215001	16
Henry Lamotte676996	Propylene glycol	8003093001	2
Henry LamotteAlliance H...	Propylene glycol	6016860001	1
Henry LamotteAlliance H...	Propylene glycol	6016960001	1
HENRY LOMOTTE OILS	Propylene glycol	6016860001	1
Henry/Geibo	Propylene glycol	125099	1
Henry/Geibo	Propylene glycol	8002520002	2
Henry/Phoenix	Propylene glycol	6012897001	1
Henry/Phoenix	Propylene glycol	8002520002	1
Henry/Sanacorp	Propylene glycol	6012897001	1
henry	Propylene glycol	1000007047	1
henry	Propylene glycol	8003093001	2
HenryLamotte / Jenne	Propylene glycol	8006970001	3
HenryLamotte/Phönix	Propylene glycol	6016860001	2
HenryLamotte/Sanacorp	Propylene glycol	6012897001	1
HenryLamotte	Propylene glycol	8008774001	1
HenryLamotteOils GmbH, ...	Propylene glycol	8007215001	2
HenryLamotteOilsGmbH	Propylene glycol	123095	1
HenryNoweda	Propylene glycol	1000007047	1
Herbasinica	Propylene glycol	12088206	2
Hubertus Apotheke	Propylene glycol	16G04-B01-328151	1
Ichthyol-Gesellschaft	Propylene glycol	18064902	1
Jenne/Lamotte	Propylene glycol	6012897001	1
Jenne	Propylene glycol	1000007047	2
Jenne	Propylene glycol	18219102	1
Jenne	Propylene glycol	8003093001	1
Jenne	Propylene glycol	8007215001	4
Kehr	Propylene glycol	17053801	1
Kehr	Propylene glycol	17275502	2
Kehr	Propylene glycol	18064908	1
Kehr	Propylene glycol	18264908	1
Kehr	Propylene glycol	1906034-01	1
Kehr	Propylene glycol	1912001	1
Klosterring	Propylene glycol	1625121	1
Klosterring	Propylene glycol	18064915	1
Kögl	Propylene glycol	1700381	3
Kögl	Propylene glycol	1702176	1
Kögl	Propylene glycol	1800370	1
Kögl	Propylene glycol	23302171117	1
Kögl	Propylene glycol	399511164816	1
Kögl	Propylene glycol	4796011170417	1
Krieger	Propylene glycol	18064901	1
Krieger	Propylene glycol	18219105	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
L10	Propylene glycol	16251206	4
L10	Propylene glycol	17053801	1
L12	Propylene glycol	17053806	2
L12	Propylene glycol	180648913	1
L12	Propylene glycol	18064901	4
L12	Propylene glycol	18064902	1
L12	Propylene glycol	18064908	1
L30	Propylene glycol	16251202	1
Laborchemie Apolda/Phönix	Propylene glycol	18064901	1
Lamotte / AHD	Propylene glycol	1000001132	1
Lamotte / AHD	Propylene glycol	6016860001	1
Lamotte / Gehe	Propylene glycol	1000007047	1
Lamotte / GEHE	Propylene glycol	6012897001	1
Lamotte / Gehe	Propylene glycol	6016860001	3
Lamotte / GEHE	Propylene glycol	6016860001	2
Lamotte / Kehr	Propylene glycol	6016860001	1
Lamotte / Noweda	Propylene glycol	1000002768	1
Lamotte / Noweda	Propylene glycol	15430512	2
Lamotte / Noweda	Propylene glycol	6012897001	2
Lamotte / Phoenix	Propylene glycol	20F04-F05-371328	1
Lamotte / Phönix	Propylene glycol	8003093001	1
Lamotte / Sanacorp	Propylene glycol	1000016713	1
Lamotte / Sanacorp	Propylene glycol	8007215001	1
Lamotte /Alliance	Propylene glycol	6016860001	2
Lamotte /Sanacorp	Propylene glycol	1000007047	1
Lamotte 004	Propylene glycol	122882	1
Lamotte AHD 250 ml	Propylene glycol	8008774001	1
Lamotte Ebert	Propylene glycol	6012897001	2
Lamotte Gmbh/ Kehr	Propylene glycol	8003093001	1
Lamotte Gmbh	Propylene glycol	125099	1
Lamotte Noweda	Propylene glycol	6012897001	1
Lamotte Oils GmbH	Propylene glycol	123095	1
Lamotte Sanacorp	Propylene glycol	1000001132	1
Lamotte, Bremen/ Phönix	Propylene glycol	6012897001	2
Lamotte/ AHD	Propylene glycol	6012897001	1
Lamotte/ Holdermann	Propylene glycol	6016860001	3
Lamotte/ Holdermann	Propylene glycol	8007215001	2
Lamotte/ Noweda	Propylene glycol	6012897001	1
Lamotte/ Noweda	Propylene glycol	6016860001	3
Lamotte/ Noweda	Propylene glycol	8007215001	1
lamotte/ Phoenix	Propylene glycol	15335405	2
Lamotte/ Phönix	Propylene glycol	15430503	1
Lamotte/ Phönix	Propylene glycol	6016860001	1
Lamotte/ Sanacorp	Propylene glycol	1000002992	1
Lamotte/ Sanacorp	Propylene glycol	6016860001	4
Lamotte/ Sanacorp	Propylene glycol	8002520002	3
Lamotte/ Sanacorp	Propylene glycol	8007215001	3
Lamotte/ Vedono	Propylene glycol	8003093001	2
Lamotte/3	Propylene glycol	14346607	1
Lamotte/AHCA	Propylene glycol	1000007047	2
Lamotte/AHCA	Propylene glycol	6012897001	2
Lamotte/AHCA	Propylene glycol	8003093001	3
Lamotte/AHD	Propylene glycol	1000007047	1
Lamotte/AHD	Propylene glycol	8002520002	2
Lamotte/AHD	Propylene glycol	8003093001	3
Lamotte/Allia	Propylene glycol	8007215001	2
Lamotte/Alliance Health...	Propylene glycol	10000007047	1
Lamotte/Alliance Health...	Propylene glycol	1000007047	1
Lamotte/Alliance Health...	Propylene glycol	8003093001	1
Lamotte/Anzag	Propylene glycol	1000007047	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/ANZAG	Propylene glycol	1000007047	1
Lamotte/Anzag	Propylene glycol	5671401	1
Lamotte/Anzag	Propylene glycol	6012897001	2
Lamotte/Anzag	Propylene glycol	6016860001	3
Lamotte/Anzag	Propylene glycol	8002520002	1
Lamotte/Anzag	Propylene glycol	800309001	1
Lamotte/Anzag	Propylene glycol	8003093001	5
Lamotte/Anzag	Propylene glycol	8006970001	1
Lamotte/Anzag11	Propylene glycol	1000001132	3
Lamotte/Ebert	Propylene glycol	1000002992	1
Lamotte/Ebert	Propylene glycol	80002520002	1
Lamotte/Ebert	Propylene glycol	8002520002	3
Lamotte/Ebert	Propylene glycol	8003093001	5
Lamotte/Ebert+Jacobi	Propylene glycol	1000007047	1
Lamotte/Fiebig	Propylene glycol	1000002768	1
Lamotte/Fiebig	Propylene glycol	6012897001	3
Lamotte/Fiebig	Propylene glycol	8002520002	3
Lamotte/Fiebig	Propylene glycol	8003093001	1
Lamotte/Gehe 20.07.2020	Propylene glycol	6016860001	2
Lamotte/Gehe	Propylene glycol	6012897001	1
Lamotte/GE-HH	Propylene glycol	6012897001	1
Lamotte/Ge-HH	Propylene glycol	8006970001	4
Lamotte/Geilenkirchen	Propylene glycol	6016860001	3
Lamotte/Geilenkirchen	Propylene glycol	8007215001	2
Lamotte/Jenne EK:10,25EUR	Propylene glycol	1000016713	2
Lamotte/Jenne	Propylene glycol	6012897001	1
Lamotte/Kehr	Propylene glycol	8002520002	1
Lamotte/Kehr	Propylene glycol	8003093001	1
Lamotte/Noweda 30.03.2022	Propylene glycol	1000016713	1
Lamotte/Noweda	Propylene glycol	100007047	1
Lamotte/Noweda	Propylene glycol	5671401	1
Lamotte/Noweda	Propylene glycol	6012897001	7
Lamotte/Noweda	Propylene glycol	6016860001	7
Lamotte/NOWEDA	Propylene glycol	8003093001	1
Lamotte/Ph-GH	Propylene glycol	6016860001	23
Lamotte/Phoenix	Propylene glycol	10000007047	1
Lamotte/Phoenix	Propylene glycol	1000002768	1
Lamotte/Phoenix	Propylene glycol	1000007047	2
Lamotte/Phoenix	Propylene glycol	6012897001	3
Lamotte/Phoenix	Propylene glycol	6016860001	1
Lamotte/Phoenix	Propylene glycol	8003093001	2
Lamotte/Phoenix	Propylene glycol	8006970001	2
Lamotte/Phönix	Propylene glycol	1000002768	2
Lamotte/Phönix	Propylene glycol	1000007047	2
lamotte/Phönix	Propylene glycol	1000016713	1
Lamotte/Phönix	Propylene glycol	2768	2
Lamotte/Phönix	Propylene glycol	6012897001	2
Lamotte/Phönix	Propylene glycol	6016860001	5
Lamotte/Sana	Propylene glycol	8003093001	1
Lamotte/Sana	Propylene glycol	8007215001	1
Lamotte/Sanacorp	Propylene glycol	1000002768	1
Lamotte/Sanacorp	Propylene glycol	1000007047	4
Lamotte/Sanacorp	Propylene glycol	6012897001	5
Lamotte/Sanacorp	Propylene glycol	601680001	1
Lamotte/Sanacorp	Propylene glycol	6016860001	3
Lamotte/Sanacorp	Propylene glycol	800250002	1
Lamotte/Sanacorp	Propylene glycol	8002520002	2
Lamotte/Sanacorp	Propylene glycol	8003093001	4
Lamotte	Propylene glycol	1000001132	4
Lamotte	Propylene glycol	1000002768	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte	Propylene glycol	1000002992	1
Lamotte	Propylene glycol	1000007047	1
Lamotte	Propylene glycol	123095	1
Lamotte	Propylene glycol	125099	2
Lamotte	Propylene glycol	18J03-B07-355043	1
Lamotte	Propylene glycol	19A28-B09-361175	4
lamotte	Propylene glycol	5671401	2
Lamotte	Propylene glycol	5671401	13
Lamotte	Propylene glycol	6012897001	7
Lamotte	Propylene glycol	6016860001	6
lamotte	Propylene glycol	8002520002	5
Lamotte	Propylene glycol	8002520002	5
lamotte	Propylene glycol	8003093001	1
Lamotte	Propylene glycol	8003093001	3
lamotte-phönix	Propylene glycol	601686001	1
Lamtte/Sanacorp	Propylene glycol	1000007047	4
Linden-Apo	Propylene glycol	1501013-01	1
Merck	Propylene glycol	K51362178920	1
Midas	Propylene glycol	17053809	1
Midas	Propylene glycol	17321703	2
Midas	Propylene glycol	18064904	1
nachprüfung C 1301	Propylene glycol	122882	1
Nachprüfung 12.02.2019	Propylene glycol	18064908	1
Nachprüfung	Propylene glycol	18005449	2
Noweda / Henry Lamotte	Propylene glycol	122882	1
Noweda / Henry Lamotte	Propylene glycol	6012897001	1
Noweda 29.09.2014	Propylene glycol	1304C010-281099	1
Noweda/ Henry Lamotte O...	Propylene glycol	8003093001	1
Noweda/Euro	Propylene glycol	1603034-01	1
Noweda/Euro	Propylene glycol	1610031-01	1
Noweda/Henry Lamotte Oi...	Propylene glycol	1000007047	1
Noweda/Hernry Lamotte O...	Propylene glycol	8006970001	1
Noweda	Propylene glycol	1000007047	4
Noweda	Propylene glycol	1000016713	1
Noweda	Propylene glycol	1112004-01	2
Noweda	Propylene glycol	11372005	2
Noweda	Propylene glycol	12088205	3
Noweda	Propylene glycol	1302002-01	1
Noweda	Propylene glycol	1313HH9041	1
Noweda	Propylene glycol	13167003	1
Noweda	Propylene glycol	13256704	1
Noweda	Propylene glycol	13256705	3
noweda	Propylene glycol	14051802	1
Noweda	Propylene glycol	15069202	1
Noweda	Propylene glycol	15262402	1
Noweda	Propylene glycol	15262409	1
Noweda	Propylene glycol	15335405	1
Noweda	Propylene glycol	15430508	1
Noweda	Propylene glycol	15J03-B07-356433	1
Noweda	Propylene glycol	16251202	1
Noweda	Propylene glycol	17053804	1
Noweda	Propylene glycol	17053890	1
Noweda	Propylene glycol	17275502	1
Noweda	Propylene glycol	17321704	1
Noweda	Propylene glycol	17E22-B10	1
Noweda	Propylene glycol	18003479	2
Noweda	Propylene glycol	18064901	1
Noweda	Propylene glycol	18064904	1
Noweda	Propylene glycol	18064907	1
Noweda	Propylene glycol	18064908	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Propylene glycol	18064909	1
Noweda	Propylene glycol	18064912	1
Noweda	Propylene glycol	1809007-01	1
Noweda	Propylene glycol	18219102	1
Noweda	Propylene glycol	18219106	1
Noweda	Propylene glycol	18H07-B01	1
Noweda	Propylene glycol	18J03-B07-355043	2
Noweda	Propylene glycol	19230103	1
Noweda	Propylene glycol	19243601	1
Noweda	Propylene glycol	19243602	2
Noweda	Propylene glycol	192461006	2
Noweda	Propylene glycol	19246101	1
Noweda	Propylene glycol	19A28-B09-361175	1
Noweda	Propylene glycol	19E20-B01	2
Noweda	Propylene glycol	19E20-B01	1
Noweda	Propylene glycol	19G04-B03-363220	1
Noweda	Propylene glycol	19G04-B03-363220	1
Noweda	Propylene glycol	20000779005	1
Noweda	Propylene glycol	20003592003	1
Noweda	Propylene glycol	20G14-F03	1
Noweda	Propylene glycol	20J05-F08	1
Noweda	Propylene glycol	20J05-F08-374459	1
Noweda	Propylene glycol	20J05-F08-374464	3
Noweda	Propylene glycol	21002539002	1
Noweda	Propylene glycol	21002539003	1
Noweda	Propylene glycol	21003881	1
Noweda	Propylene glycol	210401902	2
Noweda	Propylene glycol	212E25-T03-088477	2
Noweda	Propylene glycol	21E25-T03-088477	1
Noweda	Propylene glycol	2204011-01	1
Noweda	Propylene glycol	6012897001	5
Noweda	Propylene glycol	6016860001	1
Noweda	Propylene glycol	8003093001	1
otto fischar/gehe	Propylene glycol	6016860001	1
Otto FischerGmbH / Alli...	Propylene glycol	5671401	1
Pala	Propylene glycol	18064913	1
Pala	Propylene glycol	18064916	1
Ph/Henry Lamotte	Propylene glycol	601686000	1
Phagron	Propylene glycol		1
Pharmachem GmbH / Phönix	Propylene glycol	18J03-B07-355043	1
Phoenix 22.02.2017 2,84EUR	Propylene glycol	16251201	1
Phoenix am 10.03.2014	Propylene glycol	13256709	1
Phoenix/ EuRho	Propylene glycol	20030660-01	1
Phoenix/Cealo	Propylene glycol	16C10-B04-319299	1
Phoenix/Henry-Lamotte	Propylene glycol	6012897001	1
Phoenix/HenryLamotte	Propylene glycol	6016860001	1
Phoenix/HenryLamotte	Propylene glycol	8006970001	1
Phoenix/Henry-Lamotte	Propylene glycol	81191	1
Phoenix	Propylene glycol	1000001132	1
Phoenix	Propylene glycol	125099	1
Phoenix	Propylene glycol	1301C004-277798	1
Phoenix	Propylene glycol	1304C010-281099	1
Phoenix	Propylene glycol	13100907	1
Phoenix	Propylene glycol	13256705	1
Phoenix	Propylene glycol	13E22B03283450	1
Phoenix	Propylene glycol	14051805	1
Phoenix	Propylene glycol	14a09-b04-289597	1
Phoenix	Propylene glycol	14A09-B04-289597	1
Phoenix	Propylene glycol	15181602	1
phoenix	Propylene glycol	16251201	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Propylene glycol	16251205	1
Phoenix	Propylene glycol	17053801	1
Phoenix	Propylene glycol	1708002-01	1
Phoenix	Propylene glycol	1711023-01	3
Phoenix	Propylene glycol	18005449	1
Phoenix	Propylene glycol	18061321	1
Phoenix	Propylene glycol	18064906	1
Phoenix	Propylene glycol	1809007-01	2
Phoenix	Propylene glycol	19003049	1
Phoenix	Propylene glycol	1901018-01	3
Phoenix	Propylene glycol	1906034-01	1
Phoenix	Propylene glycol	19230101	2
Phoenix	Propylene glycol	192461005	1
Phoenix	Propylene glycol	19A28-B09	1
Phoenix	Propylene glycol	19a28-b09-361175	1
Phoenix	Propylene glycol	19e20-b01-362176	1
Phoenix	Propylene glycol	19g04-b09-361175	1
Phoenix	Propylene glycol	19I27-F03-365557	1
Phoenix	Propylene glycol	200039003013	1
Phoenix	Propylene glycol	200313103	1
Phoenix	Propylene glycol	200552306	1
Phoenix	Propylene glycol	20j05-f08-374464	1
Phoenix	Propylene glycol	21e25-t03-088477	1
Phoenix	Propylene glycol	21E25-T03-088477	1
Phoenix	Propylene glycol	29722B	1
Phoenix	Propylene glycol	3046	1
Phoenix	Propylene glycol	3051	1
Phoenix	Propylene glycol	307185	2
Phoenix	Propylene glycol	3099	1
Phoenix	Propylene glycol	3112	1
Phoenix	Propylene glycol	3121	1
Phoenix	Propylene glycol	3195	1
Phoenix	Propylene glycol	601686001	1
Phoenix	Propylene glycol	8007215001	2
Phönix / 2	Propylene glycol	19E20-B01-362176	1
Phönix /Henry Lamotte 2...	Propylene glycol	8007215001	1
Phönix /Henry Lamotte 2...	Propylene glycol	1000007047	3
Phönix /Henry Lamotte 6...	Propylene glycol	6016860001	1
Phönix 4.3.15	Propylene glycol	1405003-01	1
Phönix Gotha	Propylene glycol	11372011	1
Phönix Gotha	Propylene glycol	1301C004-277798	1
Phönix Gotha	Propylene glycol	14C05-B02-295787	1
Phönix Gotha	Propylene glycol	15A07-B04-302970	2
Phönix Gotha	Propylene glycol	1809007-01	1
Phönix Gotha	Propylene glycol	18J03-B07-355043	1
Phönix Gotha	Propylene glycol	19A28-B09-361175	1
Phönix	Propylene glycol	114113102	1
Phönix	Propylene glycol	12372405	1
Phönix	Propylene glycol	13167003	2
Phönix	Propylene glycol	13167004	1
Phönix	Propylene glycol	13167006	1
Phönix	Propylene glycol	141113102	1
Phönix	Propylene glycol	14113102	1
phönix	Propylene glycol	15335405	1
phönix	Propylene glycol	15430502	1
phönix	Propylene glycol	15430504	2
phönix	Propylene glycol	16251202	4
Phönix	Propylene glycol	16E09-B02-324843	1
phönix	Propylene glycol	17053801	1
Phönix	Propylene glycol	17053804	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
phönix	Propylene glycol	17053806	2
Phönix	Propylene glycol	1708002-01	1
Phönix	Propylene glycol	18064904	2
Phönix	Propylene glycol	1809007	1
Phönix	Propylene glycol	1809007-01	1
Phönix	Propylene glycol	18A19-B01-348338	1
Phönix	Propylene glycol	1906034-01	2
Phönix	Propylene glycol	19230101	1
Phönix	Propylene glycol	19230103	1
Phönix	Propylene glycol	192461005	1
Phönix	Propylene glycol	192461006	2
Phönix	Propylene glycol	19246101	1
Phönix	Propylene glycol	19A28-B09-361175	1
Phönix	Propylene glycol	20000779009	2
Phönix	Propylene glycol	200712007	1
PHÖNIX	Propylene glycol	2669211	1
Phönix	Propylene glycol	29595B	1
Phönix	Propylene glycol	3153	1
Phönix	Propylene glycol	3162	1
PHÖNIX	Propylene glycol	6016860001	1
Phönix	Propylene glycol	8002520002	1
PHÖNIX	Propylene glycol	8003093001	2
PHÖNIX	Propylene glycol	8007215001	2
phönix	Propylene glycol	AKD30	1
Phönix	Propylene glycol	Retest03083	1
Phytocomm	Propylene glycol	12088207	1
Repsol Quimica	Propylene glycol	15G28-B03-311889	1
Rondell Apotheke	Propylene glycol	29797B	2
Röntgen	Propylene glycol	17053809	1
Röntgen	Propylene glycol	18H07-B01-352662	1
Röntgen	Propylene glycol	19246101	1
Röntgen	Propylene glycol	8007215001	1
Sana 21.12.17 5.75	Propylene glycol	17423HH431	1
sanacorb	Propylene glycol	17053809	1
sanacorp, 3,87EUR , 12.09...	Propylene glycol	154305025	1
Sanacorp/Caesar & Loret...	Propylene glycol	18064912	1
Sanacorp	Propylene glycol		1
Sanacorp	Propylene glycol	10000007047	1
Sanacorp	Propylene glycol	1000001132	2
Sanacorp	Propylene glycol	1000007047	5
Sanacorp	Propylene glycol	1206038-01	1
Sanacorp	Propylene glycol	123095	3
Sanacorp	Propylene glycol	125099	5
Sanacorp	Propylene glycol	1302002-01	1
Sanacorp	Propylene glycol	1307021-01	3
Sanacorp	Propylene glycol	13167006	1
Sanacorp	Propylene glycol	13256706	1
Sanacorp	Propylene glycol	1401010-01	1
Sanacorp	Propylene glycol	14113103	1
Sanacorp	Propylene glycol	14248703	2
Sanacorp	Propylene glycol	14248706	1
Sanacorp	Propylene glycol	14346607	1
Sanacorp	Propylene glycol	14A09-B04	1
Sanacorp	Propylene glycol	15069201	1
Sanacorp	Propylene glycol	15262404	1
Sanacorp	Propylene glycol	15335404	1
Sanacorp	Propylene glycol	15335405	1
Sanacorp	Propylene glycol	17053802	1
Sanacorp	Propylene glycol	17053804	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Propylene glycol	17053809x2	1
Sanacorp	Propylene glycol	17053814	1
Sanacorp	Propylene glycol	18064902	1
Sanacorp	Propylene glycol	18064906	2
Sanacorp	Propylene glycol	18064913	1
Sanacorp	Propylene glycol	18064920	2
Sanacorp	Propylene glycol	18219106	1
Sanacorp	Propylene glycol	1906034-01	1
Sanacorp	Propylene glycol	19230103	1
Sanacorp	Propylene glycol	19246101	1
Sanacorp	Propylene glycol	49/AKD1	1
Sanacorp	Propylene glycol	50/AKD3	1
Sanacorp	Propylene glycol	5671401	1
Sanacorp	Propylene glycol	6012897001	7
Sanacorp	Propylene glycol	6016860001	2
Sanacorp	Propylene glycol	8002520002	3
Sanacorp	Propylene glycol	8003093001	3
Sanacorp	Propylene glycol	AKD70	1
siehe Protokoll	Propylene glycol	303788	1
Sonnen-Apotheke Wefensl...	Propylene glycol		1
Sonnen-Apotheke Wefensl...	Propylene glycol	11/18	1
Sonnen-Apotheke Wefensl...	Propylene glycol	20/16	1
Sonnen-Apotheke Wefensl...	Propylene glycol	7/19	1
Sonnen-Apotheke Wefensl...	Propylene glycol	Defektur03/18	1
Spangropharm	Propylene glycol	8003093001	1
Taoasis	Propylene glycol	18064916	1
VDL 14.05.14; Preis 3.07	Propylene glycol		1
VDL 14.05.14; Preis 3.07	Propylene glycol	14051804	2
VDL Nachliefer; 11.7.15...	Propylene glycol	15181602	1
VDL	Propylene glycol	13256709	1
VDL	Propylene glycol	14113103	1
Wepa/Jenne	Propylene glycol	18064908	1
Wolf-Apotheke	Propylene glycol	15430506	1

- 288 427 spectra from 1324 *Apo-Ident* customers from a total of 52 021 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Propylene glycol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Propylene glycol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	560	0	67 939
Type B	0	530	0	110 783
Type C	0	8781	250	288 427

The substance/substance group *Propylene glycol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 98.9286 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.8679 %)
Type C	100.0000 % (> 99.6875 %)	97.2318 % (> 97.1985 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Propylene glycol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dexpanthenol concentrate 50%	16.56	–
Dexpanthenol	36.66	–
Ethanol 90%	127.41	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Propylene glycol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30872	31738	3.44	50.36
30920	30920	0.00	50.66
31663	31663	0.00	52.27
31738	31738	0.00	48.21
32074	31663	3.83	55.29
32190	32190	0.00	48.99
32466	32466	0.00	51.30
32486	31663	5.25	58.43
32728	31663	5.12	47.97
34513	31738	4.50	49.25
34514	32466	4.19	49.42
34515	31738	4.82	48.82
34516	31663	4.79	49.07

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Psorisol base cream Audor®**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31109-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Psorisol base cream Audor®

Special notes

When selecting the *Psorisol base cream Audor®* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Psorisol base cream Audor®	3	3	17

Second-stage model

For differentiation of the substance/substance group *Psorisol base cream Audor®* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Psorisol base cream Audor®*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Audor Pharma	Psorisol base cr...	AP101943PB	31109	40	1404015
Audor Pharma	Psorisol base cr...	AP101943PB	31233	40	20130522
Audor Pharma	Psorisol base cr...	AP45001.2PB	31674	60	20141230
Audor Pharma	Psorisol base cr...	AP45001.2PB	32274	40	20141230
Euro OTC	Psorisol base cr...	2104015	35495	40	20210518*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 220 spectra of 5 reference samples from the substance/substance group *Psorisol base cream Audor®*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 279 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Psorisol base cream Audor®*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Audor Pharma	Psorisol base cream Audor®	AP55201PB	32275	40
Audor Pharma	Psorisol base cream Audor®	AP70601PB	34037	40
Audor Pharma	Psorisol base cream Audor®	AP81601PB	34662	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 38 spectra from 16 *Apo-Ident* customers from 21 batches from the substance/substance group *Psorisol base cream Audor®*.
- Among them are spectra of independent samples from 17 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Anzag	Psorisol base cream Audor®	AP102891PB	2
Audor Pharma	Psorisol base cream Audor®		2
Audor Pharma	Psorisol base cream Audor®	101943	1
Audor Pharma	Psorisol base cream Audor®	102844	2
Audor Pharma	Psorisol base cream Audor®	102891	1
Audor Pharma	Psorisol base cream Audor®	102891PB	1
Audor Pharma	Psorisol base cream Audor®	1417E-07016	1
Audor Pharma	Psorisol base cream Audor®	91201	1
Audor Pharma	Psorisol base cream Audor®	AP100472PB	2
Audor Pharma	Psorisol base cream Audor®	AP101943PB	3
Audor Pharma	Psorisol base cream Audor®	AP102844PB	1
Audor Pharma	Psorisol base cream Audor®	Ap102891PB	1
Audor Pharma	Psorisol base cream Audor®	AP11943PB	1
Audor Pharma	Psorisol base cream Audor®	AP55201PB	6
Audor Pharma	Psorisol base cream Audor®	AP70601PB	1
Audor Pharma	Psorisol base cream Audor®	AP70601PB5451	1
Audor Pharma	Psorisol base cream Audor®	AP70601PB5516	1
Audor Pharma	Psorisol base cream Audor®	AP81601PB	5
Caelo	Psorisol base cream Audor®	AP102844PB	2
Caelo	Psorisol base cream Audor®	AP70601	1
Caelo	Psorisol base cream Audor®	AP81601PB	1
Euro OTC	Psorisol base cream Audor®	2104015	1

- 297 420 spectra from 1324 *Apo-Ident* customers from a total of 52 966 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Psorisol base cream Audor®* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

this purpose, all relevant spectra of the various substances were compared with *Psorisol base cream Audor®* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	220	0	68 279
Type B	0	120	0	111 193
Type C	0	25	13	297 420

The substance/substance group *Psorisol base cream Audor®* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.2727 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6877 %)	65.7895 % (> 57.8947 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Psorisol base cream Audor®* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Base cream DAC	11.79	–
Non-ionic hydrophil ointment	14.01	–
Eucerin® cum Aqua	25.12	–
Lanette® ointment (conserved)	29.77	–
Wool alcohol cream SR	34.38	–
Anionic hydrophilic cream with propyle...	34.88	–
Anionic hydrophilic cream DAB	36.32	–
Base cream, hydrophobic DAC	39.15	–
Anionic hydrophilic cream SR (NRF p.27)	44.62	–
Potash soap DAC	45.10	–
Anionic hydrophlic cream without prese...	46.14	–
Skin care ointment W/L SR	49.88	–
Glycolic acid 70%	53.32	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Psorisol base cream Audor®* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31109	31109	0.00	23.69
31233	31109	4.30	23.98
31674	31109	4.54	24.79
32274	31109	7.12	20.74
35495	35495	0.00	25.66

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Rose oil (genuine / artificial)**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30111-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Rose oil (genuine / artificial); Oleum rosae (verum / artificiale)

Special notes

When selecting the *Rose oil (genuine / artificial)* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Rose oil (genuine / artificial)	6	3	115

Second-stage model

For differentiation of the substance/substance group *Rose oil (genuine / artificial)* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Rose oil (genuine / artificial)*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Rose oil (genuin...	12164308	31021	40	1502254
Caelo	Rose oil (genuin...	11287117	31022	40	20111011
Caelo	Rose oil (genuin...	13335012	31301	20	20131009
Caelo	Rose oil (genuin...	13252710	31412	40	1502252
Caelo	Rose oil (genuin...	13335012	31425	60	20131009
Caelo	Rose oil (genuin...	13335012	31426	60	20131009
Fagron	Rose oil (genuin...	13J17-B01	31290	40	1507614
Fagron	Rose oil (genuin...	14I25-B01-302286	31752	60	20141006
Fagron	Rose oil (genuin...	14I25-B01-302286	31842	60	20141006

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 420 spectra of 9 reference samples from the substance/substance group *Rose oil (genuine / artificial)*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 079 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Rose oil (genuine / artificial)*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Rose oil (genuine / artifici...	162311	32332	40
Caelo	Rose oil (genuine / artifici...	173537	33907	40
Caelo	Rose oil (genuine / artifici...	20002692007	35859	50

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 276 spectra from 142 *Apo-Ident* customers from 121 batches from the substance/substance group *Rose oil (genuine / artificial)*.

- Among them are spectra of independent samples from 115 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Rose oil (genuine / artifici...	15G29-B12-327364	1
AHD	Rose oil (genuine / artifici...	16H16-B04-342284	1
Caelo	Rose oil (genuine / artifici...	11178601	1
Caelo	Rose oil (genuine / artifici...	11287114	1
Caelo	Rose oil (genuine / artifici...	11287117	2
Caelo	Rose oil (genuine / artifici...	11287123	1
Caelo	Rose oil (genuine / artifici...	12164306	1
Caelo	Rose oil (genuine / artifici...	13/17-B01-293574	1
Caelo	Rose oil (genuine / artifici...	13044608	3
Caelo	Rose oil (genuine / artifici...	13252701	2
Caelo	Rose oil (genuine / artifici...	13252710	3
Caelo	Rose oil (genuine / artifici...	13252722	4
Caelo	Rose oil (genuine / artifici...	13252723	1
Caelo	Rose oil (genuine / artifici...	13335006	1
Caelo	Rose oil (genuine / artifici...	1352710	1
Caelo	Rose oil (genuine / artifici...	1353709	1
Caelo	Rose oil (genuine / artifici...	14300703	1
Caelo	Rose oil (genuine / artifici...	14300704	1
Caelo	Rose oil (genuine / artifici...	14300712	6
Caelo	Rose oil (genuine / artifici...	14300719	1
Caelo	Rose oil (genuine / artifici...	15187202	1
Caelo	Rose oil (genuine / artifici...	15197202	11
Caelo	Rose oil (genuine / artifici...	15197206	5
Caelo	Rose oil (genuine / artifici...	15197207	1
Caelo	Rose oil (genuine / artifici...	15197211	8
Caelo	Rose oil (genuine / artifici...	15449108	1
Caelo	Rose oil (genuine / artifici...	15G29-B12-312961	1
Caelo	Rose oil (genuine / artifici...	15G29-B12-314833	1
Caelo	Rose oil (genuine / artifici...	15G29-B12-332094	1
Caelo	Rose oil (genuine / artifici...	16231104	2
Caelo	Rose oil (genuine / artifici...	16231111	3
Caelo	Rose oil (genuine / artifici...	16231112	3
Caelo	Rose oil (genuine / artifici...	16231113	5
Caelo	Rose oil (genuine / artifici...	1623113	1
Caelo	Rose oil (genuine / artifici...	16H16-B04-342284	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Rose oil (genuine / artifici…	16h16b04348745	1
Caelo	Rose oil (genuine / artifici…	16H16-B04-351564	1
Caelo	Rose oil (genuine / artifici…	17101412	1
Caelo	Rose oil (genuine / artifici…	17111411	1
Caelo	Rose oil (genuine / artifici…	17258204	1
Caelo	Rose oil (genuine / artifici…	17353703	5
Caelo	Rose oil (genuine / artifici…	17353704	1
Caelo	Rose oil (genuine / artifici…	17353705	2
Caelo	Rose oil (genuine / artifici…	17353709	4
Caelo	Rose oil (genuine / artifici…	17353711	2
Caelo	Rose oil (genuine / artifici…	17353712	4
Caelo	Rose oil (genuine / artifici…	183309003	1
Caelo	Rose oil (genuine / artifici…	183309006	1
Caelo	Rose oil (genuine / artifici…	18330901	1
Caelo	Rose oil (genuine / artifici…	18330904	1
Caelo	Rose oil (genuine / artifici…	18330905	1
Caelo	Rose oil (genuine / artifici…	18330909	3
Caelo	Rose oil (genuine / artifici…	19011502	1
Caelo	Rose oil (genuine / artifici…	19022501	1
Caelo	Rose oil (genuine / artifici…	19218301	2
Caelo	Rose oil (genuine / artifici…	20002692007	2
Caelo	Rose oil (genuine / artifici…	315A-02011	1
Caelo	Rose oil (genuine / artifici…	54(17353703)	1
Caelo	Rose oil (genuine / artifici…	82931528	1
Caelo	Rose oil (genuine / artifici…	887963	1
Caeolo	Rose oil (genuine / artifici…	779579	1
Caesar & Loretz GmbH	Rose oil (genuine / artifici…	18330904	1
Caesar & Loretz GmbH	Rose oil (genuine / artifici…	20002692007	1
Caleo Caesar & Laurentio	Rose oil (genuine / artifici…	15197202	1
Fagron	Rose oil (genuine / artifici…		2
Fagron	Rose oil (genuine / artifici…	11E04-N04	1
Fagron	Rose oil (genuine / artifici…	11H05-N02	1
Fagron	Rose oil (genuine / artifici…	12C19-N05	4
Fagron	Rose oil (genuine / artifici…	12G25-N01	1
Fagron	Rose oil (genuine / artifici…	12G25-N02	8
Fagron	Rose oil (genuine / artifici…	12H16-B01	3
Fagron	Rose oil (genuine / artifici…	12H16-B01-286704	3
Fagron	Rose oil (genuine / artifici…	13C21-N04	10
Fagron	Rose oil (genuine / artifici…	13J17-801	1
Fagron	Rose oil (genuine / artifici…	13J17-B01	2
Fagron	Rose oil (genuine / artifici…	13J17-B01-293574	1
Fagron	Rose oil (genuine / artifici…	13J17-B01-296955	1
Fagron	Rose oil (genuine / artifici…	13JU17-B01-296955	1
Fagron	Rose oil (genuine / artifici…	14/25-B01-302286	1
Fagron	Rose oil (genuine / artifici…	14/25-B01-309675	1
Fagron	Rose oil (genuine / artifici…	14/25-B01-302287	1
Fagron	Rose oil (genuine / artifici…	14125-B01	1
Fagron	Rose oil (genuine / artifici…	1425-01-309676	1
Fagron	Rose oil (genuine / artifici…	1425-B01-302287	1
Fagron	Rose oil (genuine / artifici…	14I25-B01	6
Fagron	Rose oil (genuine / artifici…	14I25-B01-309676	1
Fagron	Rose oil (genuine / artifici…	15/25-B01-302286	1
Fagron	Rose oil (genuine / artifici…	15G29-B12	2
Fagron	Rose oil (genuine / artifici…	15G29-B12-312961	1
Fagron	Rose oil (genuine / artifici…	15G29-B12-314833	3
Fagron	Rose oil (genuine / artifici…	15G29-B12-321984	5
Fagron	Rose oil (genuine / artifici…	15G29-B12-327263	1
Fagron	Rose oil (genuine / artifici…	15g29-b12-327364	1
Fagron	Rose oil (genuine / artifici…	15G29-B12-327364	4
Fagron	Rose oil (genuine / artifici…	16H16-B04-332931	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Rose oil (genuine / artifici…	16H16B04342284	1
Fagron	Rose oil (genuine / artifici…	16H16-B04-342284	4
Fagron	Rose oil (genuine / artifici…	16H16-B04-348745	2
Fagron	Rose oil (genuine / artifici…	16H16-B04-351564	1
Fagron	Rose oil (genuine / artifici…	16H16-B04-348745	1
Fagron	Rose oil (genuine / artifici…	18/17-B08	1
Fagron	Rose oil (genuine / artifici…	18/17-B08-359738	1
Fagron	Rose oil (genuine / artifici…	18/17-B08-361975	1
Fagron	Rose oil (genuine / artifici…	18/17-B08-364702	3
Fagron	Rose oil (genuine / artifici…	18/17-B08-359738	1
Fagron	Rose oil (genuine / artifici…	1811-808-364702	1
Fagron	Rose oil (genuine / artifici…	1817-B08-359738	1
Fagron	Rose oil (genuine / artifici…	1817-B08-364702	1
Fagron	Rose oil (genuine / artifici…	18I17-B08	2
Fagron	Rose oil (genuine / artifici…	18I17-B08-355554	1
Fagron	Rose oil (genuine / artifici…	18I17-B08-359738	4
Fagron	Rose oil (genuine / artifici…	18I17-B08-361975	1
Fagron	Rose oil (genuine / artifici…	18I17-B08-364702	2
Fagron	Rose oil (genuine / artifici…	18I17-B08-365590	1
Fagron	Rose oil (genuine / artifici…	1951824	1
Fagron	Rose oil (genuine / artifici…	20H26-F02-088388	1
Fagron	Rose oil (genuine / artifici…	20H26-F02-374165	4
Fagron	Rose oil (genuine / artifici…	2188	1
Fagron	Rose oil (genuine / artifici…	4717Q-02011	1
Fagron	Rose oil (genuine / artifici…	511I-02011	1
Fagron	Rose oil (genuine / artifici…	688292	1
Fagron	Rose oil (genuine / artifici…	698884	3
Fagron	Rose oil (genuine / artifici…	7091301	1
Fagron	Rose oil (genuine / artifici…	713371	1
Fagron	Rose oil (genuine / artifici…	836899	3
Fagron	Rose oil (genuine / artifici…	887963	2
Fagron	Rose oil (genuine / artifici…	951824	3
Fagron	Rose oil (genuine / artifici…	F02-0883808	1
Fargon/Phoenix	Rose oil (genuine / artifici…	9/28-N14	1
Fiebig	Rose oil (genuine / artifici…	15197202	2
Fiebig	Rose oil (genuine / artifici…	16231111	1
Fiebig	Rose oil (genuine / artifici…	17353703	2
Fiebig	Rose oil (genuine / artifici…	17353712	1
Frey & Lau / Gehe	Rose oil (genuine / artifici…	18I17-B08-359738	1
Frey & Lau / Gehe	Rose oil (genuine / artifici…	18I17-B08-364702	1
Frey & Lau GmbH/Noweda	Rose oil (genuine / artifici…	15G29-B12	1
Gehe	Rose oil (genuine / artifici…	14I25-B01	1
Gehe	Rose oil (genuine / artifici…	15G29-B12	1
Jenne	Rose oil (genuine / artifici…	17353712	2
Jenne	Rose oil (genuine / artifici…	18I17-Bo8-359738	1
Kehr	Rose oil (genuine / artifici…	16H16-B04-332931	1
Klosterring	Rose oil (genuine / artifici…	15G29-B12	1
Noweda	Rose oil (genuine / artifici…	15G29-B12-327364	1
Phönix	Rose oil (genuine / artifici…	12C19-N05	1
Phönix	Rose oil (genuine / artifici…	12G25-N02	2
Phönix	Rose oil (genuine / artifici…	13C21-N04	2
Sanacorp	Rose oil (genuine / artifici…	183309006	1

- 297 182 spectra from 1324 *Apo-Ident* customers from a total of 52 866 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Rose oil (genuine / artificial)* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Rose oil (genuine / artificial)* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	420	0	68 079
Type B	0	130	0	111 183
Type C	0	268	8	297 182

The substance/substance group *Rose oil (genuine / artificial)* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.5714 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6875 %)	97.1014 % (> 96.0145 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Rose oil (genuine / artificial)* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Geranium oil, genuine	26.73	–
Citronella oil	46.25	–
RRR-α-Tocopherol	106.46	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Rose oil (genuine / artificial)* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31021	31021	0.00	54.20
31022	31412	9.30	41.47
31290	31290	0.00	147.88
31301	31021	9.86	52.81
31412	31412	0.00	38.27
31425	31021	5.70	50.41
31426	31021	4.52	51.42
31752	31290	3.04	144.17
31842	31290	4.04	141.54

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Sage oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30578-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Sage oil; Salviae officinalis aetherolea

Special notes

When selecting the *Sage oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Sage oil	6	3	75

Second-stage model

For differentiation of the substance/substance group *Sage oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Sage oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Sage oil	305303	33292	40	1709470
Bombastus	Sage oil	305303	33453	40	20161025
Bombastus	Sage oil	17001385	34524	40	117774
Bombastus	Sage oil	21000548	35468	40	20210126
Bombastus	Sage oil	22001097	36218	40	20220224
Caelo	Sage oil	13146901	31597	60	20130522
Caelo	Sage oil	183022	34991	40	20181203*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 300 spectra of 7 reference samples from the substance/substance group *Sage oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 199 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Sage oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Sage oil	16051006	33601	40
Caelo	Sage oil	16051012	33949	40
Caelo	Sage oil	19000708	34993	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 265 spectra from 159 *Apo-Ident* customers from 79 batches from the substance/substance group *Sage oil*.

- Among them are spectra of independent samples from 75 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
alliance healthcare	Sage oil	17310007	1
Anzag 10.8.12 ek:4,42	Sage oil	11287305	1
Bombastus	Sage oil	18001280	1
Bombastus	Sage oil	19002757	1
Bombastus	Sage oil	19004661	1
Bombastus	Sage oil	20000495	1
Bombastus	Sage oil	20004247	1
Bombastus	Sage oil	21000548	1
Bombastus	Sage oil	274447	1
Bombastus	Sage oil	298189	1
Caelo	Sage oil	10(17310001)	1
Caelo	Sage oil	1024214	1
Caelo	Sage oil	10248206	1
Caelo	Sage oil	11(19000708002	1
Caelo	Sage oil	11287306	1
Caelo	Sage oil	11287311	2
Caelo	Sage oil	11287312	1
Caelo	Sage oil	11287314	2
Caelo	Sage oil	11287315	1
Caelo	Sage oil	11287317	9
Caelo	Sage oil	11287318	1
Caelo	Sage oil	11287320	4
Caelo	Sage oil	11287323	6
Caelo	Sage oil	13146901	5
Caelo	Sage oil	13146903	2
Caelo	Sage oil	13146904	1
Caelo	Sage oil	13146907	1
Caelo	Sage oil	13146908	2
Caelo	Sage oil	13146914	6
Caelo	Sage oil	13146918	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Sage oil	14345502	1
Caelo	Sage oil	14345505	8
Caelo	Sage oil	14345506	1
Caelo	Sage oil	14345511	3
Caelo	Sage oil	14345512	3
Caelo	Sage oil	14345514	1
Caelo	Sage oil	14345517	13
Caelo	Sage oil	14345518	2
Caelo	Sage oil	1435517	1
Caelo	Sage oil	16051006	8
Caelo	Sage oil	16051009	4
Caelo	Sage oil	16051012	9
Caelo	Sage oil	160510125684	1
Caelo	Sage oil	16051013	1
Caelo	Sage oil	16051016	2
Caelo	Sage oil	170208OS/14345517	1
Caelo	Sage oil	170403OS/14345517	1
Caelo	Sage oil	17310001	18
Caelo	Sage oil	17310004	4
Caelo	Sage oil	17310007	12
Caelo	Sage oil	1731001	1
Caelo	Sage oil	173110007	1
Caelo	Sage oil	183022001	1
Caelo	Sage oil	183022004	6
Caelo	Sage oil	183022005	8
Caelo	Sage oil	18302201	1
Caelo	Sage oil	18302202	5
Caelo	Sage oil	18302206	14
Caelo	Sage oil	18302208	2
Caelo	Sage oil	18303302	1
Caelo	Sage oil	19000708002	3
Caelo	Sage oil	19000708010	3
Caelo	Sage oil	21111301	1
Caelo	Sage oil	2716M-02014	1
Caelo	Sage oil	28051312	1
Caelo	Sage oil	305303	1
Caelo	Sage oil	306897	1
Caelo	Sage oil	31011401	1
Caelo	Sage oil	3518M-02014	1
Caelo	Sage oil	4117A-02014	1
Caelo	Sage oil	5017A-02014	1
Caelo	Sage oil	5x11287317	1
Caesaer/Jenne	Sage oil	17310001	1
Caesar & Loretz GmbH, 4...	Sage oil	11287317	1
Caesar & Loretz GmbH/An...	Sage oil	18302202	1
Caesar & Loretz GmbH/Je...	Sage oil	18302202	1
Caesar & Loretz GmbH/Sa...	Sage oil	18302206	1
Caesar & Loretz GmbH	Sage oil	17310004	3
Caesar & Loretz GmbH	Sage oil	17310007	3
Caesar & Loretz GmbH	Sage oil	183022004	1
Caesar & Loretz GmbH	Sage oil	183022005	2
Caesar & Loretz GmbH	Sage oil	18302201	2
Caesar & Loretz GmbH	Sage oil	18302202	3
Caesar & Loretz GmbH	Sage oil	18302206	4
Caesar & Loretz GmbH	Sage oil	18302208	4
Caesar & Loretz GmbH	Sage oil	19000708002	2
Cealo/ Noweda	Sage oil	13146901	3
Cealo	Sage oil	14345517	1
Gehe amax	Sage oil	18302202	1
Gehe	Sage oil	11287318	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
gehe	Sage oil	13146901	2
L12	Sage oil	16051012	2
L12	Sage oil	17310007	1
L30	Sage oil	17310001	1
phoenix	Sage oil	18001280	1
Phönix 07.11.2019	Sage oil	17310004	1
Phönix	Sage oil	16051006	1
Phönix	Sage oil	17310001	2
Phönix	Sage oil	17310007	1
Sanacorp	Sage oil	18004851	1
Sanacorp	Sage oil	282545	1
Taoasis GmbH	Sage oil	526975-110409	1
Taoasis/Phönix	Sage oil		1
Taoasis	Sage oil	498780-106211	1
Taoasis	Sage oil	526975-111295	1
Taoasis	Sage oil	530771-108279	1
Taoasis	Sage oil	L19919DN-12640	1
Toasis	Sage oil	526975-110409	1

- 297 193 spectra from 1324 *Apo-Ident* customers from a total of 52 910 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Sage oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Sage oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	300	0	68 199
Type B	0	120	0	111 193
Type C	0	259	6	297 193

The substance/substance group *Sage oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	97.7358 % (> 96.6038 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Sage oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Spruce needle oil	11.28	–
Eucalyptus oil	24.64	–
Myrtle oil	32.20	–
Rosemary oil	32.70	–
Turpentine oil	32.71	–
Dwarf pine oil	51.54	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Sage oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31597	34991	7.82	19.80
33292	33292	0.00	11.28
33453	33292	5.21	14.00
34524	33292	5.75	11.87
34991	34991	0.00	20.15
35468	33292	6.65	17.52
36218	33292	3.63	13.88

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Salicylic acid 50% (paraffin)**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30496-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Salicylic acid 50% (paraffin); Acidum salicylicum cum vaselino 50 per centum

Special notes

When selecting the *Salicylic acid 50% (paraffin)* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Salicylic acid 50% (paraffin)	8	16	295

Second-stage model

For differentiation of the substance/substance group *Salicylic acid 50% (paraffin)* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Salicylic acid 50% (paraffin)*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Salicylic acid 5...	12305902	30883	40	20121107
Caelo	Salicylic acid 5...	15231801	31727	60	AR-15-FG-015411-01
Caelo	Salicylic acid 5...	153729	31901	60	20151029*
Caelo	Salicylic acid 5...	153730	31902	60	20151029*
Caelo	Salicylic acid 5...	153731	31903	60	20151103*
Caelo	Salicylic acid 5...	162761	32520	40	20160923*
Henry Lamotte	Salicylic acid 5...	5375300	30927	40	20121003
Henry Lamotte	Salicylic acid 5...	6001023001	32176	40	20150630

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 400 spectra of 8 reference samples from the substance/substance group *Salicylic acid 50% (paraffin)*. These samples are listed above in the *calibration samples* section. The reference samples come from 8 different batches.
- 68 099 spectra from a total of 1405 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 600 spectra of 16 reference samples from the substance/substance group *Salicylic acid 50% (paraffin)*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 16 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Salicylic acid 50% (paraffin)	153732	31904	60
Caelo	Salicylic acid 50% (paraffin)	153733	31905	60
Caelo	Salicylic acid 50% (paraffin)	171454	33357	40
Caelo	Salicylic acid 50% (paraffin)	171055	33358	40
Caelo	Salicylic acid 50% (paraffin)	171727	33359	40
Caelo	Salicylic acid 50% (paraffin)	182109	34266	40
Caelo	Salicylic acid 50% (paraffin)	182864	34309	40
Caelo	Salicylic acid 50% (paraffin)	191673	34777	40
Caelo	Salicylic acid 50% (paraffin)	21001617	35508	50
Caelo	Salicylic acid 50% (paraffin)	21002050	35631	40
Caelo	Salicylic acid 50% (paraffin)	22000648	36084	40
Caelo	Salicylic acid 50% (paraffin)	22001108	36258	40
Caelo	Salicylic acid 50% (paraffin)	22001713	36487	40
Caelo	Salicylic acid 50% (paraffin)	22001714	36488	10
Caelo	Salicylic acid 50% (paraffin)	22001715	36489	10
Caelo	Salicylic acid 50% (paraffin)	22001716	36490	10

- 110 713 spectra from a total of 2650 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 2398 spectra from 695 *Apo-Ident* customers from 304 batches from the substance/substance group *Salicylic acid 50% (paraffin)*.

- Among them are spectra of independent samples from 294 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Salicylic acid 50% (paraffin)	6004854001	1
19209302	Salicylic acid 50% (paraffin)	19209302	1
A.H.D.	Salicylic acid 50% (paraffin)	1228301	1
AHC	Salicylic acid 50% (paraffin)	8005713005	2
AHC	Salicylic acid 50% (paraffin)	8009713005	1
AHD/ Henry Lamotte	Salicylic acid 50% (paraffin)	5763800	2
AHD/ Henry Lamotte	Salicylic acid 50% (paraffin)	6001023001	4
AHD/ Lamotte	Salicylic acid 50% (paraffin)	8005713005	2
ahd/lamotte	Salicylic acid 50% (paraffin)	6004854001	1
AHDE08.05.2015	Salicylic acid 50% (paraffin)	5763800	1
Alliance Healthcare Deu...	Salicylic acid 50% (paraffin)	5235330	1
Allianz Healthcare	Salicylic acid 50% (paraffin)	17017401	1
Anzag 15.10.12	Salicylic acid 50% (paraffin)	12201901	1
Anzag	Salicylic acid 50% (paraffin)	20003516001	1
Anzag	Salicylic acid 50% (paraffin)	6001023001	2
Anzag	Salicylic acid 50% (paraffin)	6001862002	1
Anzag	Salicylic acid 50% (paraffin)	6004854001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag	Salicylic acid 50% (paraffin)	6007886001	2
Anzag	Salicylic acid 50% (paraffin)	6020091001	5
apomix	Salicylic acid 50% (paraffin)	10A110817	1
apomix	Salicylic acid 50% (paraffin)	10a181114	1
apomix	Salicylic acid 50% (paraffin)	10A181114	1
apomix	Salicylic acid 50% (paraffin)	10A290716	1
apomix	Salicylic acid 50% (paraffin)	11A290716	2
apomix	Salicylic acid 50% (paraffin)	12A050916	2
apomix	Salicylic acid 50% (paraffin)	12A130815	1
apomix	Salicylic acid 50% (paraffin)	12A211221	1
apomix	Salicylic acid 50% (paraffin)	13A121016	1
apomix	Salicylic acid 50% (paraffin)	13A210818	4
apomix	Salicylic acid 50% (paraffin)	13A240915	1
apomix	Salicylic acid 50% (paraffin)	13A281220	2
apomix	Salicylic acid 50% (paraffin)	14A031115	1
apomix	Salicylic acid 50% (paraffin)	14A121016	1
apomix	Salicylic acid 50% (paraffin)	15A251116	2
apomix	Salicylic acid 50% (paraffin)	162796101	1
apomix	Salicylic acid 50% (paraffin)	16A131217	1
apomix	Salicylic acid 50% (paraffin)	16A281118	1
apomix	Salicylic acid 50% (paraffin)	17A121218	2
apomix	Salicylic acid 50% (paraffin)	17A131217	2
apomix	Salicylic acid 50% (paraffin)	1A040220	1
apomix	Salicylic acid 50% (paraffin)	1A080217	1
apomix	Salicylic acid 50% (paraffin)	1A150116	2
apomix	Salicylic acid 50% (paraffin)	1a180214	1
apomix	Salicylic acid 50% (paraffin)	1A180214	2
apomix	Salicylic acid 50% (paraffin)	1A240113	1
apomix	Salicylic acid 50% (paraffin)	2A030320	3
apomix	Salicylic acid 50% (paraffin)	2a200219	1
apomix	Salicylic acid 50% (paraffin)	2A200219	3
apomix	Salicylic acid 50% (paraffin)	2A260115	2
apomix	Salicylic acid 50% (paraffin)	2A280116	2
apomix	Salicylic acid 50% (paraffin)	3a040413	1
apomix	Salicylic acid 50% (paraffin)	3A070316	1
apomix	Salicylic acid 50% (paraffin)	3A090519	1
apomix	Salicylic acid 50% (paraffin)	3a100512	2
apomix	Salicylic acid 50% (paraffin)	4A080515	1
apomix	Salicylic acid 50% (paraffin)	4A200613	1
apomix	Salicylic acid 50% (paraffin)	4A310519	1
apomix	Salicylic acid 50% (paraffin)	5A020615	1
apomix	Salicylic acid 50% (paraffin)	5A070416	1
apomix	Salicylic acid 50% (paraffin)	5A170619	2
apomix	Salicylic acid 50% (paraffin)	5A230418	1
apomix	Salicylic acid 50% (paraffin)	5A250713	1
apomix	Salicylic acid 50% (paraffin)	6a050813	1
apomix	Salicylic acid 50% (paraffin)	6A150615	1
apomix	Salicylic acid 50% (paraffin)	6A170719	2
apomix	Salicylic acid 50% (paraffin)	6A270416	1
apomix	Salicylic acid 50% (paraffin)	6A280820	2
apomix	Salicylic acid 50% (paraffin)	6B110714	1
apomix	Salicylic acid 50% (paraffin)	7A090819	1
apomix	Salicylic acid 50% (paraffin)	7a160913	1
apomix	Salicylic acid 50% (paraffin)	7A160913	1
apomix	Salicylic acid 50% (paraffin)	7a161012	2
apomix	Salicylic acid 50% (paraffin)	7A170920	1
apomix	Salicylic acid 50% (paraffin)	7A230615	2
apomix	Salicylic acid 50% (paraffin)	7A260521	1
apomix	Salicylic acid 50% (paraffin)	8A220518	1
apomix	Salicylic acid 50% (paraffin)	8A240616	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Salicylic acid 50% (paraffin)	8A250914	1
apomix	Salicylic acid 50% (paraffin)	9A140716	1
apomix	Salicylic acid 50% (paraffin)	9a150715	1
apomix	Salicylic acid 50% (paraffin)	9A150715	1
apomix	Salicylic acid 50% (paraffin)	9A171213	1
apomix	Salicylic acid 50% (paraffin)	9A270717	2
apomix	Salicylic acid 50% (paraffin)	9A300819	1
apomix	Salicylic acid 50% (paraffin)	9B020921	1
bionorica ethics	Salicylic acid 50% (paraffin)	17261401	1
Bombastus	Salicylic acid 50% (paraffin)	12228301	1
Bombastus	Salicylic acid 50% (paraffin)	16197401	1
Bombastus	Salicylic acid 50% (paraffin)	60091680001	1
Brückenapotheke	Salicylic acid 50% (paraffin)	1715Q-07018	1
Caeanlo	Salicylic acid 50% (paraffin)	16197401	1
Caelo	Salicylic acid 50% (paraffin)		1
Caelo	Salicylic acid 50% (paraffin)	1058001	1
Caelo	Salicylic acid 50% (paraffin)	107105801	1
Caelo	Salicylic acid 50% (paraffin)	1117M-01046	1
Caelo	Salicylic acid 50% (paraffin)	11226601	1
Caelo	Salicylic acid 50% (paraffin)	11226801	3
Caelo	Salicylic acid 50% (paraffin)	11333602	1
Caelo	Salicylic acid 50% (paraffin)	11333801	4
Caelo	Salicylic acid 50% (paraffin)	12061201	7
Caelo	Salicylic acid 50% (paraffin)	12061301	1
Caelo	Salicylic acid 50% (paraffin)	12201701	1
Caelo	Salicylic acid 50% (paraffin)	12201901	4
Caelo	Salicylic acid 50% (paraffin)	12228301	12
Caelo	Salicylic acid 50% (paraffin)	12228402	1
Caelo	Salicylic acid 50% (paraffin)	12305901	2
Caelo	Salicylic acid 50% (paraffin)	126061201	1
Caelo	Salicylic acid 50% (paraffin)	13052401	4
Caelo	Salicylic acid 50% (paraffin)	13052502	9
Caelo	Salicylic acid 50% (paraffin)	13067201	1
Caelo	Salicylic acid 50% (paraffin)	13087201	2
Caelo	Salicylic acid 50% (paraffin)	13087301	9
Caelo	Salicylic acid 50% (paraffin)	13087401	7
Caelo	Salicylic acid 50% (paraffin)	1309211046	1
Caelo	Salicylic acid 50% (paraffin)	13160002	2
Caelo	Salicylic acid 50% (paraffin)	13160101	5
Caelo	Salicylic acid 50% (paraffin)	13160102	12
Caelo	Salicylic acid 50% (paraffin)	13278501	13
Caelo	Salicylic acid 50% (paraffin)	13278601	7
Caelo	Salicylic acid 50% (paraffin)	13278701	12
Caelo	Salicylic acid 50% (paraffin)	13278801	4
Caelo	Salicylic acid 50% (paraffin)	14017501	18
Caelo	Salicylic acid 50% (paraffin)	14017601	3
Caelo	Salicylic acid 50% (paraffin)	1401761	1
Caelo	Salicylic acid 50% (paraffin)	14108001	1
Caelo	Salicylic acid 50% (paraffin)	14204302	1
Caelo	Salicylic acid 50% (paraffin)	14205001	1
Caelo	Salicylic acid 50% (paraffin)	14205101	1
Caelo	Salicylic acid 50% (paraffin)	1506211046	1
Caelo	Salicylic acid 50% (paraffin)	15231501	1
Caelo	Salicylic acid 50% (paraffin)	15231601	15
Caelo	Salicylic acid 50% (paraffin)	15231701	9
Caelo	Salicylic acid 50% (paraffin)	15231801	19
Caelo	Salicylic acid 50% (paraffin)	15231902	1
Caelo	Salicylic acid 50% (paraffin)	15247101	33
Caelo	Salicylic acid 50% (paraffin)	15247201	13
Caelo	Salicylic acid 50% (paraffin)	15277001	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Salicylic acid 50% (paraffin)	15305601	1
Caelo	Salicylic acid 50% (paraffin)	15305801	12
Caelo	Salicylic acid 50% (paraffin)	15305901	18
Caelo	Salicylic acid 50% (paraffin)	15372901	12
Caelo	Salicylic acid 50% (paraffin)	15373001	18
Caelo	Salicylic acid 50% (paraffin)	15373101	1
Caelo	Salicylic acid 50% (paraffin)	15373201	1
Caelo	Salicylic acid 50% (paraffin)	15373301	17
Caelo	Salicylic acid 50% (paraffin)	15394602	1
Caelo	Salicylic acid 50% (paraffin)	16121203	2
Caelo	Salicylic acid 50% (paraffin)	16121301	7
Caelo	Salicylic acid 50% (paraffin)	16121302	1
Caelo	Salicylic acid 50% (paraffin)	16121401	25
Caelo	Salicylic acid 50% (paraffin)	16121404	1
Caelo	Salicylic acid 50% (paraffin)	1612301	1
Caelo	Salicylic acid 50% (paraffin)	16197202	1
Caelo	Salicylic acid 50% (paraffin)	16197302	5
Caelo	Salicylic acid 50% (paraffin)	16197401	31
Caelo	Salicylic acid 50% (paraffin)	16276101	38
Caelo	Salicylic acid 50% (paraffin)	17014401	1
Caelo	Salicylic acid 50% (paraffin)	17017301	14
Caelo	Salicylic acid 50% (paraffin)	17017401	27
Caelo	Salicylic acid 50% (paraffin)	17017501	3
Caelo	Salicylic acid 50% (paraffin)	170801SV/17172701	1
Caelo	Salicylic acid 50% (paraffin)	171017501	1
Caelo	Salicylic acid 50% (paraffin)	1710501	1
Caelo	Salicylic acid 50% (paraffin)	17105501	11
Caelo	Salicylic acid 50% (paraffin)	17105602	3
Caelo	Salicylic acid 50% (paraffin)	17105702	1
Caelo	Salicylic acid 50% (paraffin)	17105801	35
Caelo	Salicylic acid 50% (paraffin)	171450401	1
Caelo	Salicylic acid 50% (paraffin)	17145401	34
Caelo	Salicylic acid 50% (paraffin)	171454015424	1
Caelo	Salicylic acid 50% (paraffin)	17145502	9
Caelo	Salicylic acid 50% (paraffin)	17172701	10
Caelo	Salicylic acid 50% (paraffin)	17172702	19
Caelo	Salicylic acid 50% (paraffin)	17261301	15
Caelo	Salicylic acid 50% (paraffin)	17261401	44
Caelo	Salicylic acid 50% (paraffin)	1732201	1
Caelo	Salicylic acid 50% (paraffin)	173260201	1
Caelo	Salicylic acid 50% (paraffin)	17326201	32
Caelo	Salicylic acid 50% (paraffin)	17326301	2
Caelo	Salicylic acid 50% (paraffin)	18034201	15
Caelo	Salicylic acid 50% (paraffin)	180342201	1
Caelo	Salicylic acid 50% (paraffin)	18034301	51
Caelo	Salicylic acid 50% (paraffin)	18034402	16
Caelo	Salicylic acid 50% (paraffin)	1811490	1
Caelo	Salicylic acid 50% (paraffin)	18114901	53
Caelo	Salicylic acid 50% (paraffin)	18115002	6
Caelo	Salicylic acid 50% (paraffin)	181151001	1
Caelo	Salicylic acid 50% (paraffin)	18115101	21
Caelo	Salicylic acid 50% (paraffin)	18210903	46
Caelo	Salicylic acid 50% (paraffin)	18211002	1
Caelo	Salicylic acid 50% (paraffin)	18286301	12
Caelo	Salicylic acid 50% (paraffin)	18286401	39
Caelo	Salicylic acid 50% (paraffin)	18286502	3
Caelo	Salicylic acid 50% (paraffin)	190101901	1
Caelo	Salicylic acid 50% (paraffin)	19010802	10
Caelo	Salicylic acid 50% (paraffin)	19010901	38
Caelo	Salicylic acid 50% (paraffin)	19082701	37

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Salicylic acid 50% (paraffin)	19082801	14
Caelo	Salicylic acid 50% (paraffin)	19167201	34
Caelo	Salicylic acid 50% (paraffin)	19167302	16
Caelo	Salicylic acid 50% (paraffin)	19209302	31
Caelo	Salicylic acid 50% (paraffin)	19274001	3
Caelo	Salicylic acid 50% (paraffin)	200000895001	1
Caelo	Salicylic acid 50% (paraffin)	200001803001	3
Caelo	Salicylic acid 50% (paraffin)	200002467001	2
Caelo	Salicylic acid 50% (paraffin)	200003516001	1
Caelo	Salicylic acid 50% (paraffin)	20000459001	7
Caelo	Salicylic acid 50% (paraffin)	20000459002	26
Caelo	Salicylic acid 50% (paraffin)	20000847002	1
Caelo	Salicylic acid 50% (paraffin)	20000847003	8
Caelo	Salicylic acid 50% (paraffin)	200008477003	1
Caelo	Salicylic acid 50% (paraffin)	20000895001	9
Caelo	Salicylic acid 50% (paraffin)	2000105580001	1
Caelo	Salicylic acid 50% (paraffin)	20001058001	22
Caelo	Salicylic acid 50% (paraffin)	2000105801	1
Caelo	Salicylic acid 50% (paraffin)	20001803001	28
Caelo	Salicylic acid 50% (paraffin)	20001804002	1
Caelo	Salicylic acid 50% (paraffin)	200022467001	1
Caelo	Salicylic acid 50% (paraffin)	20002467001	26
Caelo	Salicylic acid 50% (paraffin)	20002468001	10
Caelo	Salicylic acid 50% (paraffin)	20003023001	6
Caelo	Salicylic acid 50% (paraffin)	20003024002	13
Caelo	Salicylic acid 50% (paraffin)	20003516001	28
Caelo	Salicylic acid 50% (paraffin)	200035316001	1
Caelo	Salicylic acid 50% (paraffin)	20003781002	6
Caelo	Salicylic acid 50% (paraffin)	2001058001	1
Caelo	Salicylic acid 50% (paraffin)	2001803001	1
Caelo	Salicylic acid 50% (paraffin)	2002311046	1
Caelo	Salicylic acid 50% (paraffin)	20310812-6	1
Caelo	Salicylic acid 50% (paraffin)	21001617001	1
Caelo	Salicylic acid 50% (paraffin)	21001617002	18
Caelo	Salicylic acid 50% (paraffin)	2100184001	1
Caelo	Salicylic acid 50% (paraffin)	21001848001	11
Caelo	Salicylic acid 50% (paraffin)	21001849001	7
Caelo	Salicylic acid 50% (paraffin)	21002420001	3
Caelo	Salicylic acid 50% (paraffin)	21003003002	6
Caelo	Salicylic acid 50% (paraffin)	2100617002	1
Caelo	Salicylic acid 50% (paraffin)	22000648001	1
Caelo	Salicylic acid 50% (paraffin)	22001108003	2
Caelo	Salicylic acid 50% (paraffin)	2783	2
Caelo	Salicylic acid 50% (paraffin)	3263	1
Caelo	Salicylic acid 50% (paraffin)	4717A-01046	1
Caelo	Salicylic acid 50% (paraffin)	5375300	1
Caelo	Salicylic acid 50% (paraffin)	5809400	1
Caelo	Salicylic acid 50% (paraffin)	6001023001	1
Caelo	Salicylic acid 50% (paraffin)	6001023002	1
Caelo	Salicylic acid 50% (paraffin)	600103001	1
Caelo	Salicylic acid 50% (paraffin)	6001862001	1
Caelo	Salicylic acid 50% (paraffin)	6001862002	3
Caelo	Salicylic acid 50% (paraffin)	6004854001	2
Caelo	Salicylic acid 50% (paraffin)	6009168001	1
Caelo	Salicylic acid 50% (paraffin)	6010004001	2
Caelo	Salicylic acid 50% (paraffin)	601004001	1
Caelo	Salicylic acid 50% (paraffin)	6010101001	1
Caelo	Salicylic acid 50% (paraffin)	6020091001	1
Caelo	Salicylic acid 50% (paraffin)	6121401	1
Caelo	Salicylic acid 50% (paraffin)	613I-01046	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Salicylic acid 50% (paraffin)	8004748001	1
Caelo	Salicylic acid 50% (paraffin)	8005713005	1
Caelo	Salicylic acid 50% (paraffin)	8728	1
Caelo	Salicylic acid 50% (paraffin)	9C020921	1
Caelo	Salicylic acid 50% (paraffin)	AKD2	1
Caelo	Salicylic acid 50% (paraffin)	AKD9	1
Caelo	Salicylic acid 50% (paraffin)	s-100513-1	1
Caeolo/Phoenix	Salicylic acid 50% (paraffin)	18114901	1
Caesar & Loretz GmbH / ...	Salicylic acid 50% (paraffin)	19010901	1
Caesar & Loretz GmbH / ...	Salicylic acid 50% (paraffin)	19082701	1
Caesar & Loretz GmbH / ...	Salicylic acid 50% (paraffin)	19010901	1
Caesar & Loretz GmbH / ...	Salicylic acid 50% (paraffin)	20001058001	1
Caesar & Loretz GmbH /G	Salicylic acid 50% (paraffin)	19010901	1
Caesar & Loretz GmbH/ A...	Salicylic acid 50% (paraffin)	19010901	1
Caesar & Loretz GmbH/ A...	Salicylic acid 50% (paraffin)	19209302	1
Caesar & Loretz GmbH/ G...	Salicylic acid 50% (paraffin)	20002468001	1
Caesar & Loretz GmbH/ G...	Salicylic acid 50% (paraffin)	20003781002	1
Caesar & Loretz GmbH/ P...	Salicylic acid 50% (paraffin)	19010901	1
Caesar & Loretz GmbH/AHD	Salicylic acid 50% (paraffin)	20000459002	1
Caesar & Loretz GmbH/Fi...	Salicylic acid 50% (paraffin)	21001848001	1
Caesar & Loretz GmbH/Gehe	Salicylic acid 50% (paraffin)	19082701	2
Caesar & Loretz GmbH/Gehe	Salicylic acid 50% (paraffin)	19082801	1
Caesar & Loretz GmbH/Gehe	Salicylic acid 50% (paraffin)	19209302	1
Caesar & Loretz GmbH/Gehe	Salicylic acid 50% (paraffin)	20000459002	1
Caesar & Loretz GmbH/Gehe	Salicylic acid 50% (paraffin)	20000847003	1
Caesar & Loretz GmbH/je...	Salicylic acid 50% (paraffin)	20003023001	1
Caesar & Loretz GmbH/Je...	Salicylic acid 50% (paraffin)	8005713005	2
Caesar & Loretz GmbH/Kehr	Salicylic acid 50% (paraffin)	21001617002	1
Caesar & Loretz GmbH/Kr...	Salicylic acid 50% (paraffin)	19167201	1
Caesar & Loretz GmbH/No...	Salicylic acid 50% (paraffin)	200002468001	1
Caesar & Loretz GmbH/no...	Salicylic acid 50% (paraffin)	20000459002	1
Caesar & Loretz GmbH/No...	Salicylic acid 50% (paraffin)	20000895001	1
Caesar & Loretz GmbH/No...	Salicylic acid 50% (paraffin)	20002468001	1
Caesar & Loretz GmbH/Ph...	Salicylic acid 50% (paraffin)	20001804002	1
Caesar & Loretz GmbH/Ph...	Salicylic acid 50% (paraffin)	19082701	1
Caesar & Loretz GmbH/Ph...	Salicylic acid 50% (paraffin)	1319A-01046	1
Caesar & Loretz GmbH/Ph...	Salicylic acid 50% (paraffin)	18286401	1
Caesar & Loretz GmbH/Ph...	Salicylic acid 50% (paraffin)	20001058001	2
Caesar & Loretz GmbH/Ph...	Salicylic acid 50% (paraffin)	20001803001	1
Caesar & Loretz GmbH/Sa...	Salicylic acid 50% (paraffin)	19082601	1
Caesar & Loretz GmbH/Sa...	Salicylic acid 50% (paraffin)	20000847002	1
Caesar & Loretz GmbH/sp...	Salicylic acid 50% (paraffin)	18286301	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	15A281118	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	17330802	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	18114901	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	18115101	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	18211002	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	18286301	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	18286401	2
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	18286502	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	19010802	4
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	19010901	8
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	19082601	2
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	19082701	12
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	19082801	6
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	19167201	12
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	19167302	2
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	19209302	10
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	19274001	4
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	200001803001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20000459001	6
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20000459002	4
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20000847002	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20000847003	2
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20000895001	8
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20001058001	7
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20001325002	2
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20001803001	4
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20001804002	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20002467001	6
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20002468001	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20003023001	6
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20003024002	5
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20003516001	10
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	20003781002	3
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	2003024002	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	21001617002	8
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	21001848001	5
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	21001849001	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	21002420001	4
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	21003003002	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	22001108001	1
Caesar & Loretz GmbH	Salicylic acid 50% (paraffin)	6020091001	1
Caesar & Loretz/ Noweda	Salicylic acid 50% (paraffin)	17326201	1
Caesar&Lorenz	Salicylic acid 50% (paraffin)	21001848001	1
Caesar&Loretz GmbH	Salicylic acid 50% (paraffin)	15305901	1
Caesar&Loretz GmbH	Salicylic acid 50% (paraffin)	17105801	1
Caesar/Gehe	Salicylic acid 50% (paraffin)	20000459002	1
Caeser und Loretz GmbH	Salicylic acid 50% (paraffin)	19082701	2
Caleo	Salicylic acid 50% (paraffin)	17261401	1
Cealo/ AHD	Salicylic acid 50% (paraffin)	16121301	1
Cealo	Salicylic acid 50% (paraffin)	17172701	1
Ceasar & Lorentz GmbH	Salicylic acid 50% (paraffin)	20000459002	1
Celo/Sanacorp	Salicylic acid 50% (paraffin)	18034402	1
DAC 2005	Salicylic acid 50% (paraffin)	4960200	1
Defektur	Salicylic acid 50% (paraffin)	46/13	1
Ebert & Jacobi	Salicylic acid 50% (paraffin)	18034301	1
Ebert-Jacobi	Salicylic acid 50% (paraffin)	17105501	1
Euro OTC	Salicylic acid 50% (paraffin)	11333801	1
Euro OTC	Salicylic acid 50% (paraffin)	15305801	1
Euro OTC	Salicylic acid 50% (paraffin)	17017401	1
Euro OTC	Salicylic acid 50% (paraffin)	17105801	1
Euro OTC	Salicylic acid 50% (paraffin)	17326201	1
Fagron	Salicylic acid 50% (paraffin)	15373301	1
Fagron	Salicylic acid 50% (paraffin)	17105801	2
Fargon / AHD	Salicylic acid 50% (paraffin)	8005713005	1
Fiebig/Lamotte	Salicylic acid 50% (paraffin)	8005713005	1
Fiebig	Salicylic acid 50% (paraffin)	18034402	1
Fiebig	Salicylic acid 50% (paraffin)	18286301	1
Fiebig	Salicylic acid 50% (paraffin)	19082701	1
Fiebig	Salicylic acid 50% (paraffin)	5763800	1
Gehe / Henry Lamotte	Salicylic acid 50% (paraffin)	8005713005	2
Gehe/Lamotte	Salicylic acid 50% (paraffin)	6004854001	1
Gehe/Lamotte	Salicylic acid 50% (paraffin)	6009168001	1
Gehe/Lamotte	Salicylic acid 50% (paraffin)	8005713005	2
GEHE	Salicylic acid 50% (paraffin)	10A110817	1
Gehe	Salicylic acid 50% (paraffin)	12228301	1
Gehe	Salicylic acid 50% (paraffin)	12305902	1
Gehe	Salicylic acid 50% (paraffin)	13278501	2
GEHE	Salicylic acid 50% (paraffin)	13A041017	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Salicylic acid 50% (paraffin)	17105501	2
Gehe	Salicylic acid 50% (paraffin)	17105801	3
Gehe	Salicylic acid 50% (paraffin)	17145401	2
Gehe	Salicylic acid 50% (paraffin)	17261301	1
Gehe	Salicylic acid 50% (paraffin)	18034201	2
Gehe	Salicylic acid 50% (paraffin)	18034301	1
GEHE	Salicylic acid 50% (paraffin)	18034301	1
gehe	Salicylic acid 50% (paraffin)	18034402	1
Gehe	Salicylic acid 50% (paraffin)	18034402	1
Gehe	Salicylic acid 50% (paraffin)	18286301	1
GEHE	Salicylic acid 50% (paraffin)	18286502	1
Gehe	Salicylic acid 50% (paraffin)	19010802	1
GEHE	Salicylic acid 50% (paraffin)	19010901	1
GEHE	Salicylic acid 50% (paraffin)	19082601	1
Gehe	Salicylic acid 50% (paraffin)	19082801	1
Gehe	Salicylic acid 50% (paraffin)	19274001	1
Gehe	Salicylic acid 50% (paraffin)	20000459001	1
Gehe	Salicylic acid 50% (paraffin)	20000847003	1
Gehe	Salicylic acid 50% (paraffin)	20003023001	1
GEHE	Salicylic acid 50% (paraffin)	2A270217	1
GEHE	Salicylic acid 50% (paraffin)	3A050318	1
GEHE	Salicylic acid 50% (paraffin)	3A070417	1
Gehe	Salicylic acid 50% (paraffin)	4313M-07018	1
GEHE	Salicylic acid 50% (paraffin)	4A050318	1
Gehe	Salicylic acid 50% (paraffin)	6001023001	1
H. Lamotte/Gehe	Salicylic acid 50% (paraffin)	6004854001	1
H. Lamotte/Gehe	Salicylic acid 50% (paraffin)	6007886001	1
H. Lamotte/Gehe	Salicylic acid 50% (paraffin)	8004748001	1
H. Lamotte/Phönix	Salicylic acid 50% (paraffin)	6010101001	1
Henri Lamotte/Noweda	Salicylic acid 50% (paraffin)	6004854001	1
Henry Lamotte	Salicylic acid 50% (paraffin)	6020091001	1
Henry Lamotte / Anzag	Salicylic acid 50% (paraffin)	22(6020091001)	1
Henry Lamotte / Anzag	Salicylic acid 50% (paraffin)	220712(8009435001)	1
Henry Lamotte / Kehr	Salicylic acid 50% (paraffin)	6001023002	2
Henry Lamotte / Noweda	Salicylic acid 50% (paraffin)	6001023002	1
Henry Lamotte / Noweda	Salicylic acid 50% (paraffin)	6001862001	1
henry Lamotte / Noweda	Salicylic acid 50% (paraffin)	6004854001	1
henry Lamotte / Noweda	Salicylic acid 50% (paraffin)	6007886001	1
Henry Lamotte / Noweda	Salicylic acid 50% (paraffin)	6009168001	1
Henry Lamotte / Noweda	Salicylic acid 50% (paraffin)	6020091001	1
Henry Lamotte / Sana	Salicylic acid 50% (paraffin)	5809400	1
Henry Lamotte / Sanacorp	Salicylic acid 50% (paraffin)	8005713005	1
Henry Lamotte /Jenne	Salicylic acid 50% (paraffin)	19(8004748001)	1
Henry Lamotte /Jenne	Salicylic acid 50% (paraffin)	23(6020091001)	1
Henry Lamotte AHD 100g	Salicylic acid 50% (paraffin)	6020091001	1
Henry Lamotte Gehe	Salicylic acid 50% (paraffin)	6020091001	1
Henry Lamotte GmbH Bremen	Salicylic acid 50% (paraffin)	6020091001	1
Henry Lamotte GmbH/ Now...	Salicylic acid 50% (paraffin)	8004748001	4
Henry Lamotte GmbH	Salicylic acid 50% (paraffin)	6010004001	2
Henry Lamotte GmbH	Salicylic acid 50% (paraffin)	6020091001	1
Henry Lamotte GmbH	Salicylic acid 50% (paraffin)	8005713005	3
Henry Lamotte Noweda 6....	Salicylic acid 50% (paraffin)	8005713005	1
henry lamotte oils / Al...	Salicylic acid 50% (paraffin)	800478001	1
HENRY LAMOTTE OILS GMB	Salicylic acid 50% (paraffin)	8007615001	1
Henry Lamotte Oils GmbH...	Salicylic acid 50% (paraffin)	6004854001	1
Henry Lamotte Oils GmbH...	Salicylic acid 50% (paraffin)	6010101001	1
Henry Lamotte Oils GmbH...	Salicylic acid 50% (paraffin)	6007886001	1
Henry Lamotte Oils GmbH...	Salicylic acid 50% (paraffin)	6010102001	1
Henry Lamotte Oils GmbH...	Salicylic acid 50% (paraffin)	8005713005	1
Henry Lamotte Oils GmbH...	Salicylic acid 50% (paraffin)	6020091001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	8007615001	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	8005713005	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	6010101001	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	8004748001	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	6010101001	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	6004854001	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	8004748001	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	8005713005	7
Henry Lamotte Oils Gmbh…	Salicylic acid 50% (paraffin)	8005713005	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	8005713005	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	6001023002	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	6004854001	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	6009168001	1
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	6020091001	2
Henry Lamotte Oils GmbH…	Salicylic acid 50% (paraffin)	8007615001	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	4960200	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	5253300	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	5375300	2
HENRY LAMOTTE OILS Gmbh	Salicylic acid 50% (paraffin)	5375300	3
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	5448100	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	5763800	2
Henry Lamotte Oils Gmbh	Salicylic acid 50% (paraffin)	5809400	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	5809400	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	6001023001	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	6001023002	1
Henry Lamotte Oils GMBH	Salicylic acid 50% (paraffin)	6001862001/161014SV	1
Henry Lamotte Oils GMBH	Salicylic acid 50% (paraffin)	6001862001/170307SV	1
Henry Lamotte Oils Gmbh	Salicylic acid 50% (paraffin)	6001862002	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	6001862002	4
henry lamotte oils gmbh	Salicylic acid 50% (paraffin)	6004854001	2
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	6004854001	4
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	6007886001	1
Henry Lamotte Oils GMBH	Salicylic acid 50% (paraffin)	6007886001	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	6009168001	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	6010004001	2
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	6010101001	10
Henry Lamotte Oils GMBH	Salicylic acid 50% (paraffin)	6010101001	2
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	6020091001	5
HENRY LAMOTTE OILS GmbH	Salicylic acid 50% (paraffin)	6020091001	2
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	8004748001	7
HENRY LAMOTTE OILS GmbH	Salicylic acid 50% (paraffin)	8004748001	1
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	8005713005	5
Henry Lamotte Oils GmbH	Salicylic acid 50% (paraffin)	8007615001	3
HENRY LAMOTTE OILS GmbH	Salicylic acid 50% (paraffin)	8007615001	2
Henry Lamotte Oils/ Gehe	Salicylic acid 50% (paraffin)	6010101001	1
Henry Lamotte Oils/Ebert	Salicylic acid 50% (paraffin)	6010004001	2
Henry Lamotte Oils/Gehe	Salicylic acid 50% (paraffin)	6010004001	1
Henry Lamotte Oils/Noveda	Salicylic acid 50% (paraffin)	8004748001	2
Henry Lamotte Oils/Noweda	Salicylic acid 50% (paraffin)	6007886002	2
Henry Lamotte Oils/Sana…	Salicylic acid 50% (paraffin)	6007886002	1
Henry Lamotte Oils	Salicylic acid 50% (paraffin)	6001023002	1
Henry Lamotte Oils	Salicylic acid 50% (paraffin)	6001862002	3
Henry Lamotte Oils	Salicylic acid 50% (paraffin)	6009168001	1
Henry Lamotte Oils	Salicylic acid 50% (paraffin)	8004748001	2
Henry Lamotte Olis GMBH…	Salicylic acid 50% (paraffin)	80047488001	1
Henry Lamotte Olis GmbH…	Salicylic acid 50% (paraffin)	5763800	1
Henry Lamotte Olis GmbH…	Salicylic acid 50% (paraffin)	6001023001	1
Henry Lamotte Olis GmbH…	Salicylic acid 50% (paraffin)	6001862002	1
Henry Lamotte Olis GMBH	Salicylic acid 50% (paraffin)	6020091001	1
Henry Lamotte Olis GmbH	Salicylic acid 50% (paraffin)	8004748001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Phoenix	Salicylic acid 50% (paraffin)	8005713005	1
Henry Lamotte/ AHD	Salicylic acid 50% (paraffin)	6010101001	1
Henry Lamotte/ Alliance...	Salicylic acid 50% (paraffin)	6001862002	1
Henry Lamotte/ Alliance...	Salicylic acid 50% (paraffin)	8004748001	1
Henry Lamotte/ Anzag	Salicylic acid 50% (paraffin)	5065800	1
Henry Lamotte/ Fiebig	Salicylic acid 50% (paraffin)	8007615001	1
Henry Lamotte/ Gehe	Salicylic acid 50% (paraffin)	6010101001	1
Henry Lamotte/ Gehe	Salicylic acid 50% (paraffin)	8005713005	1
Henry Lamotte/ Noweda	Salicylic acid 50% (paraffin)	6001023001	1
Henry Lamotte/ Sanacorp	Salicylic acid 50% (paraffin)	6009168001	1
Henry Lamotte/AHD	Salicylic acid 50% (paraffin)	6020091001	1
Henry Lamotte/Anzag	Salicylic acid 50% (paraffin)	17(6009168001)	1
Henry Lamotte/Anzag	Salicylic acid 50% (paraffin)	5253300	1
Henry Lamotte/Anzag	Salicylic acid 50% (paraffin)	5448100	1
Henry Lamotte/Anzag	Salicylic acid 50% (paraffin)	6004854001	1
Henry Lamotte/Ebert	Salicylic acid 50% (paraffin)	6004854001	1
Henry Lamotte/Gehe	Salicylic acid 50% (paraffin)	8005713005	2
Henry Lamotte/Jenne	Salicylic acid 50% (paraffin)	16(6007886001)	1
Henry Lamotte/Kehr	Salicylic acid 50% (paraffin)	5809400	1
Henry Lamotte/Kehr	Salicylic acid 50% (paraffin)	6004854001	1
Henry Lamotte/L12	Salicylic acid 50% (paraffin)	3917822	1
Henry Lamotte/L12	Salicylic acid 50% (paraffin)	6001023002	1
Henry Lamotte/Noweda 02...	Salicylic acid 50% (paraffin)	8005713005	1
Henry Lamotte/Noweda	Salicylic acid 50% (paraffin)	6001862002	1
Henry Lamotte/Noweda	Salicylic acid 50% (paraffin)	6004854001	4
Henry Lamotte/Noweda	Salicylic acid 50% (paraffin)	6007886001	1
Henry Lamotte/Phoenix	Salicylic acid 50% (paraffin)	6001862001	1
Henry Lamotte/Phoenix	Salicylic acid 50% (paraffin)	6007886002	1
Henry Lamotte/Phoenix	Salicylic acid 50% (paraffin)	60101022001	1
Henry Lamotte/Phoenix	Salicylic acid 50% (paraffin)	6020091001	2
Henry Lamotte/Phoenix	Salicylic acid 50% (paraffin)	8004748001	2
Henry Lamotte/Phönix	Salicylic acid 50% (paraffin)	6020091001	1
Henry Lamotte/Phönix	Salicylic acid 50% (paraffin)	8004747001	1
Henry Lamotte/Phönix	Salicylic acid 50% (paraffin)	8004748001	2
Henry Lamotte/Phönix	Salicylic acid 50% (paraffin)	8005713005	1
Henry Lamotte/Phönix	Salicylic acid 50% (paraffin)	8009435001	1
Henry Lamotte/Sanacorp	Salicylic acid 50% (paraffin)	5809400	1
Henry Lamotte/Sanacorp	Salicylic acid 50% (paraffin)	6001023001	1
Henry Lamotte/Sanacorp	Salicylic acid 50% (paraffin)	6010101001	1
Henry Lamotte	Salicylic acid 50% (paraffin)	4960200	1
Henry Lamotte	Salicylic acid 50% (paraffin)	5253300	1
Henry Lamotte	Salicylic acid 50% (paraffin)	5375300	2
Henry Lamotte	Salicylic acid 50% (paraffin)	5448100	1
Henry Lamotte	Salicylic acid 50% (paraffin)	5763800	4
Henry Lamotte	Salicylic acid 50% (paraffin)	5809400	1
Henry Lamotte	Salicylic acid 50% (paraffin)	6001023001	1
Henry Lamotte	Salicylic acid 50% (paraffin)	6001023002	1
Henry Lamotte	Salicylic acid 50% (paraffin)	6001862002	1
Henry Lamotte	Salicylic acid 50% (paraffin)	6004854001	4
Henry Lamotte	Salicylic acid 50% (paraffin)	6007886001	1
Henry Lamotte	Salicylic acid 50% (paraffin)	6007886002	1
Henry Lamotte	Salicylic acid 50% (paraffin)	6009168001	1
Henry Lamotte	Salicylic acid 50% (paraffin)	6010101001	1
HENRY LAMOTTE	Salicylic acid 50% (paraffin)	6010101001	1
Henry Lamotte	Salicylic acid 50% (paraffin)	6020091001	8
HENRY LAMOTTE	Salicylic acid 50% (paraffin)	6020091001	2
henry Lamotte	Salicylic acid 50% (paraffin)	8004748001	1
Henry Lamotte	Salicylic acid 50% (paraffin)	8004748001	11
HENRY LAMOTTE	Salicylic acid 50% (paraffin)	8004748001	1
henry Lamotte	Salicylic acid 50% (paraffin)	8005713005	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte	Salicylic acid 50% (paraffin)	8005713005	10
HENRY LAMOTTE	Salicylic acid 50% (paraffin)	8005713005	2
Henry Lamotte	Salicylic acid 50% (paraffin)	800572130050	1
Henry Lamotte	Salicylic acid 50% (paraffin)	8007615001	5
Henry LamotteAlliance H...	Salicylic acid 50% (paraffin)	8005713005	1
HenryLamotte/Gehe	Salicylic acid 50% (paraffin)	6001862001	1
HenryLamotte/Gehe	Salicylic acid 50% (paraffin)	6007886002	1
HenryLamotte/noweda	Salicylic acid 50% (paraffin)	3716I-01046	1
HenryLamotte/noweda	Salicylic acid 50% (paraffin)	6001023001	2
HenryLamotte/Noweda	Salicylic acid 50% (paraffin)	6004854001	2
HenryLamotte	Salicylic acid 50% (paraffin)	5763800	1
HenryLamotte	Salicylic acid 50% (paraffin)	6001023001	1
HenryLamotte	Salicylic acid 50% (paraffin)	6010101001	1
Hochhaus-Apotheke	Salicylic acid 50% (paraffin)	16197302	1
Ichthyol Gesellschaft/C...	Salicylic acid 50% (paraffin)	18210903	1
Jenne	Salicylic acid 50% (paraffin)	21001617002	1
Kehr/Henry Lamotte	Salicylic acid 50% (paraffin)	5809400	1
Kehr	Salicylic acid 50% (paraffin)	6007886002	1
L12/Henry Lamotte	Salicylic acid 50% (paraffin)	5809400	1
L12	Salicylic acid 50% (paraffin)	17105801	1
L12	Salicylic acid 50% (paraffin)	18034402	2
L12	Salicylic acid 50% (paraffin)	6001862001	1
Lamotte / Phönix	Salicylic acid 50% (paraffin)	8004748001	1
lamotte phönix	Salicylic acid 50% (paraffin)	6009168001	1
Lamotte / AHC	Salicylic acid 50% (paraffin)	6004854001	1
Lamotte / AHC	Salicylic acid 50% (paraffin)	8004748001	2
Lamotte / Phoenix	Salicylic acid 50% (paraffin)	6009168001	2
Lamotte / Phoenix	Salicylic acid 50% (paraffin)	6020091001	4
Lamotte / Phoenix	Salicylic acid 50% (paraffin)	8005713005	1
Lamotte / Phönix	Salicylic acid 50% (paraffin)	8005713005	1
Lamotte / Sanacorp	Salicylic acid 50% (paraffin)	5763800	1
Lamotte / Sanacorp	Salicylic acid 50% (paraffin)	6001862002	2
Lamotte / Sanacorp	Salicylic acid 50% (paraffin)	6007886001	2
Lamotte AHD 100 g	Salicylic acid 50% (paraffin)	8007615001	2
Lamotte, Bremen/ Phönix	Salicylic acid 50% (paraffin)	8005713005	1
Lamotte/ AHD	Salicylic acid 50% (paraffin)	6020091001	1
Lamotte/ Fiebig	Salicylic acid 50% (paraffin)	6020091001	1
Lamotte/ Jenne	Salicylic acid 50% (paraffin)	8005713005	2
Lamotte/ Noweda	Salicylic acid 50% (paraffin)	8005713005	1
Lamotte/ Sanacorp	Salicylic acid 50% (paraffin)	6004854001	2
Lamotte/ Sanacorp	Salicylic acid 50% (paraffin)	602009001	1
Lamotte/ Sanacorp	Salicylic acid 50% (paraffin)	8004748001	1
Lamotte/AHD	Salicylic acid 50% (paraffin)	6001862001	1
Lamotte/AHD	Salicylic acid 50% (paraffin)	6004854001	3
Lamotte/AHD	Salicylic acid 50% (paraffin)	6007886001	2
Lamotte/AHD	Salicylic acid 50% (paraffin)	6009168001	2
Lamotte/AHD	Salicylic acid 50% (paraffin)	6010101001	3
Lamotte/AHD	Salicylic acid 50% (paraffin)	8004748001	3
Lamotte/AHD	Salicylic acid 50% (paraffin)	8007615001	2
Lamotte/Alliance	Salicylic acid 50% (paraffin)	6007886001	2
Lamotte/alliance	Salicylic acid 50% (paraffin)	6007886002	1
Lamotte/Alliance	Salicylic acid 50% (paraffin)	6010101001	1
Lamotte/Alliance	Salicylic acid 50% (paraffin)	8005713005	1
Lamotte/Anzag	Salicylic acid 50% (paraffin)	5809400	1
Lamotte/Anzag	Salicylic acid 50% (paraffin)	60007886002	1
Lamotte/Anzag	Salicylic acid 50% (paraffin)	6007886002	3
Lamotte/Ebert	Salicylic acid 50% (paraffin)	6001862001	1
Lamotte/Fiebig	Salicylic acid 50% (paraffin)	6020091001	1
Lamotte/Fiebig	Salicylic acid 50% (paraffin)	8007615001	1
Lamotte/Gehe	Salicylic acid 50% (paraffin)	5763800	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Gehe	Salicylic acid 50% (paraffin)	6004854001	2
Lamotte/Gehe	Salicylic acid 50% (paraffin)	6007886001	1
Lamotte/Gehe	Salicylic acid 50% (paraffin)	6009168001	1
Lamotte/K	Salicylic acid 50% (paraffin)	6001023001	1
Lamotte/Kehr	Salicylic acid 50% (paraffin)	6004854001	1
Lamotte/Kehr	Salicylic acid 50% (paraffin)	6010101001	1
Lamotte/Kehr	Salicylic acid 50% (paraffin)	8004748001	2
Lamotte/Nowed	Salicylic acid 50% (paraffin)	6010101001	1
Lamotte/Noweda	Salicylic acid 50% (paraffin)	6004854001	2
Lamotte/Noweda	Salicylic acid 50% (paraffin)	6009168001	2
Lamotte/NOWEDA	Salicylic acid 50% (paraffin)	6009168001	1
Lamotte/Otto	Salicylic acid 50% (paraffin)	8004748001	1
Lamotte/PH	Salicylic acid 50% (paraffin)	6010101001	1
Lamotte/PH	Salicylic acid 50% (paraffin)	8005713005	1
Lamotte/Phoenix	Salicylic acid 50% (paraffin)	6009168001	1
Lamotte/Phoenix	Salicylic acid 50% (paraffin)	8004748001	1
Lamotte/Phoenix	Salicylic acid 50% (paraffin)	8005713005	1
Lamotte/Phönix	Salicylic acid 50% (paraffin)	6001023001	2
Lamotte/Phönix	Salicylic acid 50% (paraffin)	6001862002	1
Lamotte/Phönix	Salicylic acid 50% (paraffin)	6004854001	3
Lamotte/Phönix	Salicylic acid 50% (paraffin)	6007886001	2
Lamotte/Phönix	Salicylic acid 50% (paraffin)	6007886002	1
Lamotte/Phönix	Salicylic acid 50% (paraffin)	6009168001	1
lamotte/phönix	Salicylic acid 50% (paraffin)	6010101001	2
Lamotte/Phönix	Salicylic acid 50% (paraffin)	6010101001	1
Lamotte/Phönix	Salicylic acid 50% (paraffin)	8004748001	2
Lamotte/Phönix	Salicylic acid 50% (paraffin)	8007615001	1
Lamotte/PX	Salicylic acid 50% (paraffin)	5809400	1
Lamotte/Sana	Salicylic acid 50% (paraffin)	6020091001	1
Lamotte/Sanacorp(Grafi)	Salicylic acid 50% (paraffin)	5809400	1
Lamotte/Sanacorp	Salicylic acid 50% (paraffin)	19209302	1
Lamotte/Sanacorp	Salicylic acid 50% (paraffin)	5809400	1
Lamotte/Sanacorp	Salicylic acid 50% (paraffin)	6004854001	1
Lamotte/Sanacorp	Salicylic acid 50% (paraffin)	6009168001	1
LaMotte/Spangro	Salicylic acid 50% (paraffin)	6007886001	1
Lamotte/VDL	Salicylic acid 50% (paraffin)	5375300	1
Lamotte	Salicylic acid 50% (paraffin)	5065800	1
Lamotte	Salicylic acid 50% (paraffin)	5375300	1
Lamotte	Salicylic acid 50% (paraffin)	5763800	1
lamotte	Salicylic acid 50% (paraffin)	5809400	1
Lamotte	Salicylic acid 50% (paraffin)	5809400	1
Lamotte	Salicylic acid 50% (paraffin)	6001023001	8
Lamotte	Salicylic acid 50% (paraffin)	6001023002	3
Lamotte	Salicylic acid 50% (paraffin)	60011862002	1
Lamotte	Salicylic acid 50% (paraffin)	6001862001	2
Lamotte	Salicylic acid 50% (paraffin)	6001862002	9
Lamotte	Salicylic acid 50% (paraffin)	6004854001	2
Lamotte	Salicylic acid 50% (paraffin)	6007886001	2
Lamotte	Salicylic acid 50% (paraffin)	6007886002	1
Lamotte	Salicylic acid 50% (paraffin)	6009168001	1
Lamotte	Salicylic acid 50% (paraffin)	6020091001	1
Lamotte	Salicylic acid 50% (paraffin)	8004748001	4
Lamotte	Salicylic acid 50% (paraffin)	8005713005	3
Linden-Apo	Salicylic acid 50% (paraffin)	2615M-01046	1
Midas	Salicylic acid 50% (paraffin)	17105501	1
Midas	Salicylic acid 50% (paraffin)	17261301	1
Midas	Salicylic acid 50% (paraffin)	18034201	1
Midas	Salicylic acid 50% (paraffin)	18286301	1
Nachprüfung	Salicylic acid 50% (paraffin)	AP210203-01	1
Noweda / Lamotte Oil	Salicylic acid 50% (paraffin)	8005713005	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
noweda / lamotte	Salicylic acid 50% (paraffin)	5809400	1
Noweda 26.08.15	Salicylic acid 50% (paraffin)	15231801	1
Noweda Taucha	Salicylic acid 50% (paraffin)	7A160622	1
Noweda/Lamotte	Salicylic acid 50% (paraffin)	6004854001	1
Noweda	Salicylic acid 50% (paraffin)	12201901	1
Noweda	Salicylic acid 50% (paraffin)	16276101	1
Noweda	Salicylic acid 50% (paraffin)	17105501	1
Noweda	Salicylic acid 50% (paraffin)	17326201	3
Noweda	Salicylic acid 50% (paraffin)	18034301	1
Noweda	Salicylic acid 50% (paraffin)	18115002	1
Noweda	Salicylic acid 50% (paraffin)	19167201	2
Noweda	Salicylic acid 50% (paraffin)	19209302	1
Noweda	Salicylic acid 50% (paraffin)	19274001	1
Noweda	Salicylic acid 50% (paraffin)	20000895001	1
Noweda	Salicylic acid 50% (paraffin)	20001058001	1
Noweda	Salicylic acid 50% (paraffin)	20001325002	1
Noweda	Salicylic acid 50% (paraffin)	20001804002	1
Noweda	Salicylic acid 50% (paraffin)	20002467001	1
Noweda	Salicylic acid 50% (paraffin)	20003024002	1
Noweda	Salicylic acid 50% (paraffin)	20003516001	2
Noweda	Salicylic acid 50% (paraffin)	6001023002	1
Noweda	Salicylic acid 50% (paraffin)	6007886001	1
Noweda	Salicylic acid 50% (paraffin)	6A230418	1
Noweda	Salicylic acid 50% (paraffin)	8005713005	1
P. W. Beyvers GmbH	Salicylic acid 50% (paraffin)	17017301	1
Pala	Salicylic acid 50% (paraffin)	18034402	2
Pala	Salicylic acid 50% (paraffin)	19082801	1
Phoenix 08.08.2018 9,...	Salicylic acid 50% (paraffin)	17326201	1
Phoenix (PKH Halle)	Salicylic acid 50% (paraffin)	2A040313	1
Phoenix 02.04.2019 9,90EUR	Salicylic acid 50% (paraffin)	19010901	1
Phoenix 18.09.2017	Salicylic acid 50% (paraffin)	17105801	1
Phoenix/ Henry Lamotte	Salicylic acid 50% (paraffin)	6004854001	1
Phoenix	Salicylic acid 50% (paraffin)	15373101	1
Phoenix	Salicylic acid 50% (paraffin)	16A131217	1
Phoenix	Salicylic acid 50% (paraffin)	18114901	1
Phoenix	Salicylic acid 50% (paraffin)	19010901	1
Phoenix	Salicylic acid 50% (paraffin)	19082701	1
phoenix	Salicylic acid 50% (paraffin)	19082801	1
Phoenix	Salicylic acid 50% (paraffin)	19167201	1
Phoenix	Salicylic acid 50% (paraffin)	3090	1
Phoenix	Salicylic acid 50% (paraffin)	3381	1
Phoenix	Salicylic acid 50% (paraffin)	6007886001	1
Phoenix	Salicylic acid 50% (paraffin)	6007886002	1
Phoenix	Salicylic acid 50% (paraffin)	6010101001	1
Phoenix	Salicylic acid 50% (paraffin)	8004748001	1
Phoenix	Salicylic acid 50% (paraffin)	8009435001	1
Phönix Gotha	Salicylic acid 50% (paraffin)	13052401	1
Phönix Gotha	Salicylic acid 50% (paraffin)	14017601	1
Phönix Gotha	Salicylic acid 50% (paraffin)	19167201	1
Phönix	Salicylic acid 50% (paraffin)	11274301	1
Phönix	Salicylic acid 50% (paraffin)	12201801	1
Phönix	Salicylic acid 50% (paraffin)	17261401	1
PHÖNIX	Salicylic acid 50% (paraffin)	17326301	2
Phönix	Salicylic acid 50% (paraffin)	20000895001	1
PHÖNIX	Salicylic acid 50% (paraffin)	20000895001	1
Phönix	Salicylic acid 50% (paraffin)	21002420001	1
Phönix	Salicylic acid 50% (paraffin)	5375300	1
Phönix	Salicylic acid 50% (paraffin)	8007615001	3
PHÖNIX	Salicylic acid 50% (paraffin)	ChB20003781002	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
PhR Neidhardt	Salicylic acid 50% (paraffin)	17A131217	1
PKH / 11	Salicylic acid 50% (paraffin)	2A280116	1
PKH GmbH/ Alliance Heal...	Salicylic acid 50% (paraffin)	15A281118	1
PKH GmbH	Salicylic acid 50% (paraffin)	8A300819	1
PKH Halle/Noweda	Salicylic acid 50% (paraffin)	9A171213	1
PKH Halle/Phönix	Salicylic acid 50% (paraffin)	14A031115	1
Röntgen	Salicylic acid 50% (paraffin)	18286301	1
sanacorb	Salicylic acid 50% (paraffin)	16197401	2
Sanacorp, 22.09.2016	Salicylic acid 50% (paraffin)	16197401	1
SANACORP/ Lamotte	Salicylic acid 50% (paraffin)	8005713005	1
Sanacorp	Salicylic acid 50% (paraffin)	1305202	1
Sanacorp	Salicylic acid 50% (paraffin)	14108201	1
Sanacorp	Salicylic acid 50% (paraffin)	14354101	1
Sanacorp	Salicylic acid 50% (paraffin)	15247201	1
Sanacorp	Salicylic acid 50% (paraffin)	15373301	1
Sanacorp	Salicylic acid 50% (paraffin)	16121301	2
Sanacorp	Salicylic acid 50% (paraffin)	17145401	1
Sanacorp	Salicylic acid 50% (paraffin)	17172702	1
Sanacorp	Salicylic acid 50% (paraffin)	17261401	1
Sanacorp	Salicylic acid 50% (paraffin)	18034301	2
Sanacorp	Salicylic acid 50% (paraffin)	20001058001	2
Sanacorp	Salicylic acid 50% (paraffin)	20001803001	2
Sanacorp	Salicylic acid 50% (paraffin)	20002468001	1
Sanacorp	Salicylic acid 50% (paraffin)	5809400	1
Sanacorp	Salicylic acid 50% (paraffin)	6020091001	1
Sanacorp	Salicylic acid 50% (paraffin)	8004748001	2
Sanacorp	Salicylic acid 50% (paraffin)	8005713005	6
SanacorpWE:18.10.17 EK...	Salicylic acid 50% (paraffin)	17172702	1
WE:Sanacorp 29.10.2016 ...	Salicylic acid 50% (paraffin)	1612401	1
Wolf Apotheke	Salicylic acid 50% (paraffin)	18(6010101001)	1

- 295 060 spectra from 1324 *Apo-Ident* customers from a total of 52 690 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Salicylic acid 50% (paraffin)* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Salicylic acid 50% (paraffin)* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	400	0	68 099
Type B	0	600	0	110 713
Type C	0	2396	2	295 060

The substance/substance group *Salicylic acid 50% (paraffin)* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.5000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.9166 % (> 99.7915 %)

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Salicylic acid 50% (paraffin)* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Permethrin 25% solution	95.86	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Salicylic acid 50% (paraffin)* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30883	31903	1.72	132.18
30927	31727	5.77	141.86
31727	31727	0.00	139.48
31901	31901	0.00	128.04
31902	31902	0.00	133.60
31903	31903	0.00	129.99
32176	31727	4.79	142.08
32520	32520	0.00	126.42

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Salicylic acid concentrate 10%, white paraffin basis**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`32310-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Salicylic acid concentrate 10%, white paraffin basis; Unguentum Acidi salicylici 10% c. Vaselinum album

Special notes

When selecting the *Salicylic acid concentrate 10%, white paraffin basis* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Salicylic acid concentrate 10%, white paraffin basis	3	2	3

Second-stage model

For differentiation of the substance/substance group *Salicylic acid concentrate 10%, white paraffin basis* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Salicylic acid concentrate 10%, white paraffin basis*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Salicylic acid c...	20003377	35153	40	20201111*
Caelo	Salicylic acid c...	21002592	35608	50	20210816*
Caelo	Salicylic acid c...	21004058	35941	40	20220111*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 130 spectra of 3 reference samples from the substance/substance group *Salicylic acid concentrate 10%, white paraffin basis*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 369 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Salicylic acid concentrate 10%, white paraffin basis*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Salicylic acid concentrate 1...	153947	32310	40
Caelo	Salicylic acid concentrate 1...	22000796	36249	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 3 spectra from 3 *Apo-Ident* customers from 3 batches from the substance/substance group *Salicylic acid concentrate 10%, white paraffin basis*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Salicylic acid concentrate 1...	21002592001	1
Caelo	Salicylic acid concentrate 1...	21002592002	1
Caelo	Salicylic acid concentrate 1...	21004058001	1

- 297 455 spectra from 1324 *Apo-Ident* customers from a total of 52 984 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Salicylic acid concentrate 10%, white paraffin basis* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Salicylic acid concentrate 10%, white paraffin basis* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	130	0	68 369
Type B	0	80	0	111 233
Type C	0	3	0	297 455

The substance/substance group *Salicylic acid concentrate 10%, white paraffin basis* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.3846 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6904 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Salicylic acid concentrate 10%, white paraffin basis* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Metronidazole 25% in white petrolatum	20.99	–
Permethrin 25% solution	22.73	–
Shea butter, refined	34.89	–
Pasta Cordes®	44.90	–
Softisan® 378	48.86	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Salicylic acid concentrate 10%, white paraffin basis* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
35153	35153	0.00	58.01
35608	35608	0.00	61.78
35941	35941	0.00	63.34

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Salicylic acid concentrate 5%, white paraffin basis**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`32309-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Salicylic acid concentrate 5%, white paraffin basis; Unguentum Acidi salicylici 5% c. Vaselinum album

Special notes

When selecting the *Salicylic acid concentrate 5%, white paraffin basis* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Salicylic acid concentrate 5%, white paraffin basis	4	1	0

Second-stage model

For differentiation of the substance/substance group *Salicylic acid concentrate 5%, white paraffin basis* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Salicylic acid concentrate 5%, white paraffin basis*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Salicylic acid c...	191442	34800	40	20190529*
Caelo	Salicylic acid c...	20003375	35152	40	20201111*
Caelo	Salicylic acid c...	21003081	35810	50	20210922*
Caelo	Salicylic acid c...	22002118	36421	40	20220708*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 170 spectra of 4 reference samples from the substance/substance group *Salicylic acid concentrate 5%, white paraffin basis*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 329 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Salicylic acid concentrate 5%, white paraffin basis*.
- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Salicylic acid concentrate 5…	153946	32309	40

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 0 spectra from 0 *Apo-Ident* customers from 0 batches from the substance/substance group *Salicylic acid concentrate 5%, white paraffin basis*.
- Among them are spectra of independent samples from 0 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.
- 297 458 spectra from 1324 *Apo-Ident* customers from a total of 52 987 batches from a further 344 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Salicylic acid concentrate 5%, white paraffin basis* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Salicylic acid concentrate 5%, white paraffin basis* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	170	0	68 329
Type B	0	32	8	111 273
Type C	0	0	0	297 458

The substance/substance group *Salicylic acid concentrate 5%, white paraffin basis* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.4706 %)
Type B	100.0000 % (> 99.9680 %)	80.0000 % (> 72.5000 %)
Type C	100.0000 % (> 99.6899 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Salicylic acid concentrate 5%, white paraffin basis* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Softisan® 378	17.30	–
Shea butter, refined	17.80	–
Metronidazole 25% in white petrolatum	24.70	–
Permethrin 25% solution	24.82	–
Paraffin, yellow	25.11	–
Wool alcohol ointment DAB	25.34	–
Paraffin, white	26.96	–
Pasta Cordes®	32.74	–
Unguentum Cordes®	36.56	–
Wool alcohol ointment SR with white pa...	36.94	–
Eye ointment, emulsifying DAC	37.44	–
Eye paraffin	38.29	–
Hydrophilic ointment DAB	40.96	–
Wool alcohol ointment SR/DAC	41.53	–
Wool fat	44.94	–
Salicylic acid concentrate 10%, white ...	45.28	–
Macrogol 8 stereate type I	46.04	–
Emulsifying hydrophobic base gel DAC	49.77	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Salicylic acid concentrate 5%, white paraffin basis* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
34800	34800	0.00	30.39
35152	35152	0.00	28.16
35810	35810	0.00	34.44
36421	36421	0.00	29.07

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Sodium laureth sulfate solution 27%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30936-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Sodium laureth sulfate solution 27%; Sodium laureth sulphate solution 27%; Solutio natrii laurylaethersulfurici 27 %

Special notes

When selecting the *Sodium laureth sulfate solution 27%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Sodium laureth sulfate solution 27%	9	5	43

Second-stage model

For differentiation of the substance/substance group *Sodium laureth sulfate solution 27%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Sodium laureth sulfate solution 27%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Sodium laureth s...	12315211	30936	50	20121029
Caelo	Sodium laureth s...	13069915	31114	39	20130402
Caelo	Sodium laureth s...	14049902	31349	60	8930
Caelo	Sodium laureth s...	161968	32696	30	20161010*
Caelo	Sodium laureth s...	16196801	32818	30	20161010
Caelo	Sodium laureth s...	163071	33090	40	20161121*
Caelo	Sodium laureth s...	190124	34464	40	20190211*
Caelo	Sodium laureth s...	190656	34633	40	20190510*
Caelo	Sodium laureth s...	192336	34725	40	20190916*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 369 spectra of 9 reference samples from the substance/substance group *Sodium laureth sulfate solution 27%*. These samples are listed above in the *calibration samples* section. The reference samples come from 9 different batches.

- 68 130 spectra from a total of 1404 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 270 spectra of 8 reference samples from the substance/substance group *Sodium laureth sulfate solution 27%*.

- Among them are spectra of independent samples from 5 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Sodium laureth sulfate solut…	171210	33335	40
Caelo	Sodium laureth sulfate solut…	172233	33698	40
Caelo	Sodium laureth sulfate solut…	20001653002	35134	40
Caelo	Sodium laureth sulfate solut…	20004206	35253	40
Caelo	Sodium laureth sulfate solut…	21002403	35722	50
Caelo	Sodium laureth sulfate solut…	161968	32696†	10
Caelo	Sodium laureth sulfate solut…	16196801	32818†	10
Caelo	Sodium laureth sulfate solut…	172233	33883	40

- 111 043 spectra from a total of 2659 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 107 spectra from 44 *Apo-Ident* customers from 46 batches from the substance/substance group *Sodium laureth sulfate solution 27%*.

- Among them are spectra of independent samples from 43 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Sodium laureth sulfate solut…	11322611	1
Caelo	Sodium laureth sulfate solut…	12044307	1
Caelo	Sodium laureth sulfate solut…	12044308	4
Caelo	Sodium laureth sulfate solut…	12315203	1
Caelo	Sodium laureth sulfate solut…	12315211	1
Caelo	Sodium laureth sulfate solut…	12341104	1
Caelo	Sodium laureth sulfate solut…	13069903	1
Caelo	Sodium laureth sulfate solut…	13069905	1
Caelo	Sodium laureth sulfate solut…	13069911	1
Caelo	Sodium laureth sulfate solut…	13241001	1
Caelo	Sodium laureth sulfate solut…	13241004	1
Caelo	Sodium laureth sulfate solut…	13241101	1
Caelo	Sodium laureth sulfate solut…	14049902	1
Caelo	Sodium laureth sulfate solut…	14049904	1
Caelo	Sodium laureth sulfate solut…	14197915	6
Caelo	Sodium laureth sulfate solut…	14197916	1
Caelo	Sodium laureth sulfate solut…	14197920	1
Caelo	Sodium laureth sulfate solut…	14355304	2

continued on the next page

†These spectra were recorded from material of the same package as the corresponding calibration spectra (*Type A*). Hence, these spectra are not independent and are not of *Type B*.

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Sodium laureth sulfate solut…	14355308	1
Caelo	Sodium laureth sulfate solut…	14355310	1
Caelo	Sodium laureth sulfate solut…	14355314	8
Caelo	Sodium laureth sulfate solut…	14355315	1
Caelo	Sodium laureth sulfate solut…	15145004	1
Caelo	Sodium laureth sulfate solut…	15145010	1
Caelo	Sodium laureth sulfate solut…	15145017	5
Caelo	Sodium laureth sulfate solut…	16196801	2
Caelo	Sodium laureth sulfate solut…	16307104	1
Caelo	Sodium laureth sulfate solut…	16354801	1
Caelo	Sodium laureth sulfate solut…	17121002	1
Caelo	Sodium laureth sulfate solut…	17121004	7
Caelo	Sodium laureth sulfate solut…	17121005	1
Caelo	Sodium laureth sulfate solut…	17223302	4
Caelo	Sodium laureth sulfate solut…	17318601	1
Caelo	Sodium laureth sulfate solut…	18118901	4
Caelo	Sodium laureth sulfate solut…	18199701	9
Caelo	Sodium laureth sulfate solut…	1901240	1
Caelo	Sodium laureth sulfate solut…	19065601	2
Caelo	Sodium laureth sulfate solut…	19065604	2
Caelo	Sodium laureth sulfate solut…	19233602	3
Caelo	Sodium laureth sulfate solut…	20001653002	3
Caelo	Sodium laureth sulfate solut…	20002775001	2
Caelo	Sodium laureth sulfate solut…	21002403005	2
Caelo	Sodium laureth sulfate solut…	2613M-01907	1
Caesar & Loretz GmbH Hi…	Sodium laureth sulfate solut…	14049913	1
Caesar & Loretz GmbH, 4…	Sodium laureth sulfate solut…	12315211	1
Caesar & Loretz GmbH	Sodium laureth sulfate solut…	18199701	1
Caesar & Loretz GmbH	Sodium laureth sulfate solut…	18199705	1
Caesar & Loretz GmbH	Sodium laureth sulfate solut…	19012404	2
Caesar & Loretz GmbH	Sodium laureth sulfate solut…	19065604	1
Caesar & Loretz GmbH	Sodium laureth sulfate solut…	19233602	3
Caesar & Loretz GmbH	Sodium laureth sulfate solut…	20001653002	1
Caesar & Loretz GmbH	Sodium laureth sulfate solut…	20002775001	1
Caesar & Loretz GmbH	Sodium laureth sulfate solut…	21002403005	1
Phönix	Sodium laureth sulfate solut…	14355314	1
Sanacorp	Sodium laureth sulfate solut…	14049902	1

- 297 351 spectra from 1324 *Apo-Ident* customers from a total of 52 942 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Sodium laureth sulfate solution 27%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Sodium laureth sulfate solution 27%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	369	0	68 130
Type B	0	253	17	111 043
Type C	0	106	1	297 351

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The substance/substance group *Sodium laureth sulfate solution 27%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.3740 %)
Type B	100.0000 % (> 99.9678 %)	93.7037 % (> 92.5926 %)
Type C	100.0000 % (> 99.6876 %)	99.0654 % (> 96.2617 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Sodium laureth sulfate solution 27%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Non-ionic hydrous liniment SR/DAC (NRF…	19.26	–
Hydrated liniment SR/DAC (NRF p.40)	20.85	–
Hydrophilic cream, non-ionic SR (NRF p…	22.07	–
Hydrophilic cream, non-ionic without p…	28.06	–
Glycolic acid 70%	28.77	–
Anionic hydrophlic cream without prese…	30.63	–
Anionic hydrophilic cream SR (NRF p.27)	31.81	–
Wolff® base half-fat cream	48.50	–
Base cream, diluted	48.57	–
Gel Cordes®	50.16	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Sodium laureth sulfate solution 27%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30936	31349	2.85	26.96
31114	31349	4.44	25.46
31349	31349	0.00	23.79
32696	32696	0.00	20.13

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
32818	33090	2.34	21.33
33090	33090	0.00	21.73
34464	34464	0.00	20.21
34633	34633	0.00	19.85
34725	34725	0.00	23.13

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Sodium-(s)-lactate solution 50%**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30136-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Sodium-(s)-lactate solution 50%; Natrii (s)-lactatis solutio 50%

Special notes

When selecting the *Sodium-(s)-lactate solution 50%* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Sodium-(s)-lactate solution 50%	6	3	184

Second-stage model

For differentiation of the substance/substance group *Sodium-(S)-lactate solution 50%* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Sodium-(S)-lactate solution 50%*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Sodium-(s)-lacta...	12027310	30621	80	20120131
Caelo	Sodium-(s)-lacta...	14039503	31321	40	20140207
Caelo	Sodium-(s)-lacta...	16056201	32586	40	20160315
Caelo	Sodium-(s)-lacta...	16056201	32839	40	AR-17-FG-006366-01
Caelo	Sodium-(s)-lacta...	16056201	32917	40	20160315
Caelo	Sodium-(s)-lacta...	191667	34729	40	20190829*
Caelo	Sodium-(s)-lacta...	21003097	35824	50	20210923*
Caelo	Sodium-(s)-lacta...	21003096	35830	50	20210923*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 380 spectra of 8 reference samples from the substance/substance group *Sodium-(S)-lactate solution 50%*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 119 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Sodium-(S)-lactate solution 50%*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Sodium-(s)-lactate solution ...	170977	33319	40
Caelo	Sodium-(s)-lactate solution ...	173153	34231	40
Caelo	Sodium-(s)-lactate solution ...	20000467	34996	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 2054 spectra from 866 *Apo-Ident* customers from 191 batches from the substance/substance group *Sodium-(s)-lactate solution 50%*.

- Among them are spectra of independent samples from 184 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Sodium-(s)-lactate solution ...	14182904	2
AHD 19.02.15	Sodium-(s)-lactate solution ...	14353202	1
AHD	Sodium-(s)-lactate solution ...	191667007	7
AHD	Sodium-(s)-lactate solution ...	1916679002	1
Alliance H.	Sodium-(s)-lactate solution ...	18314501	1
Alliance health	Sodium-(s)-lactate solution ...	14353205	1
Alliance Healthcare	Sodium-(s)-lactate solution ...	18135702	1
Alliance	Sodium-(s)-lactate solution ...	191667006	1
Anzag 27.02.2013	Sodium-(s)-lactate solution ...	12294603	1
Anzag	Sodium-(s)-lactate solution ...	16056201	1
Anzag	Sodium-(s)-lactate solution ...	18135803	1
Anzag	Sodium-(s)-lactate solution ...	18314501	1
Anzag	Sodium-(s)-lactate solution ...	21003221008	1
Bombastus	Sodium-(s)-lactate solution ...	13111704	1
Bufa/Noweda	Sodium-(s)-lactate solution ...	1916670	1
Caelo	Sodium-(s)-lactate solution ...		3
Caelo	Sodium-(s)-lactate solution ...	10/AKD7	1
Caelo	Sodium-(s)-lactate solution ...	10094060	2
Caelo	Sodium-(s)-lactate solution ...	11/AKD16	1
Caelo	Sodium-(s)-lactate solution ...	11024001	1
Caelo	Sodium-(s)-lactate solution ...	11024009	6
Caelo	Sodium-(s)-lactate solution ...	11238701	4
Caelo	Sodium-(s)-lactate solution ...	11238706	2
Caelo	Sodium-(s)-lactate solution ...	11238707	2
Caelo	Sodium-(s)-lactate solution ...	11238712	2
Caelo	Sodium-(s)-lactate solution ...	12/18-M04	1
Caelo	Sodium-(s)-lactate solution ...	12027301	1
Caelo	Sodium-(s)-lactate solution ...	12027303	2
Caelo	Sodium-(s)-lactate solution ...	12027310	1
Caelo	Sodium-(s)-lactate solution ...	12180404	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Sodium-(s)-lactate solution ...	12180406	2
Caelo	Sodium-(s)-lactate solution ...	12180407	7
Caelo	Sodium-(s)-lactate solution ...	12180408	2
Caelo	Sodium-(s)-lactate solution ...	1218407	1
Caelo	Sodium-(s)-lactate solution ...	12294603	7
Caelo	Sodium-(s)-lactate solution ...	12294604	6
Caelo	Sodium-(s)-lactate solution ...	12294605	6
Caelo	Sodium-(s)-lactate solution ...	12294607	6
Caelo	Sodium-(s)-lactate solution ...	12294610	5
Caelo	Sodium-(s)-lactate solution ...	13111704	12
Caelo	Sodium-(s)-lactate solution ...	13111705	5
Caelo	Sodium-(s)-lactate solution ...	13111707	1
Caelo	Sodium-(s)-lactate solution ...	13267001	22
Caelo	Sodium-(s)-lactate solution ...	13267002	2
Caelo	Sodium-(s)-lactate solution ...	13267003	7
Caelo	Sodium-(s)-lactate solution ...	13267005	1
Caelo	Sodium-(s)-lactate solution ...	13267006	3
Caelo	Sodium-(s)-lactate solution ...	13267009	11
Caelo	Sodium-(s)-lactate solution ...	13330302	6
Caelo	Sodium-(s)-lactate solution ...	13330303	2
Caelo	Sodium-(s)-lactate solution ...	13330304	2
Caelo	Sodium-(s)-lactate solution ...	13330305	11
Caelo	Sodium-(s)-lactate solution ...	13330306	1
Caelo	Sodium-(s)-lactate solution ...	13330307	11
Caelo	Sodium-(s)-lactate solution ...	13330308	1
Caelo	Sodium-(s)-lactate solution ...	133305	1
Caelo	Sodium-(s)-lactate solution ...	14011301	1
Caelo	Sodium-(s)-lactate solution ...	14039503	15
Caelo	Sodium-(s)-lactate solution ...	14039507	3
Caelo	Sodium-(s)-lactate solution ...	14039508	1
Caelo	Sodium-(s)-lactate solution ...	14039511	4
Caelo	Sodium-(s)-lactate solution ...	1414Q03157	1
Caelo	Sodium-(s)-lactate solution ...	14182902	10
Caelo	Sodium-(s)-lactate solution ...	14182903	3
Caelo	Sodium-(s)-lactate solution ...	14182904	7
Caelo	Sodium-(s)-lactate solution ...	14271901	18
Caelo	Sodium-(s)-lactate solution ...	14271902	1
Caelo	Sodium-(s)-lactate solution ...	14271903	1
Caelo	Sodium-(s)-lactate solution ...	14271904	11
Caelo	Sodium-(s)-lactate solution ...	14271905	2
Caelo	Sodium-(s)-lactate solution ...	14271906	2
Caelo	Sodium-(s)-lactate solution ...	14271907	7
Caelo	Sodium-(s)-lactate solution ...	14271908	2
Caelo	Sodium-(s)-lactate solution ...	1435207	1
Caelo	Sodium-(s)-lactate solution ...	14353201	6
Caelo	Sodium-(s)-lactate solution ...	14353202	11
Caelo	Sodium-(s)-lactate solution ...	14353204	3
Caelo	Sodium-(s)-lactate solution ...	14353205	21
Caelo	Sodium-(s)-lactate solution ...	14353207	13
Caelo	Sodium-(s)-lactate solution ...	14353208	1
Caelo	Sodium-(s)-lactate solution ...	14353210	11
Caelo	Sodium-(s)-lactate solution ...	14A21-B10-295977	1
Caelo	Sodium-(s)-lactate solution ...	1513505	1
Caelo	Sodium-(s)-lactate solution ...	15135501	1
Caelo	Sodium-(s)-lactate solution ...	15135505	37
Caelo	Sodium-(s)-lactate solution ...	15135508	2
Caelo	Sodium-(s)-lactate solution ...	1525110	1
Caelo	Sodium-(s)-lactate solution ...	15251101	66
Caelo	Sodium-(s)-lactate solution ...	15251102	12
Caelo	Sodium-(s)-lactate solution ...	15375805	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Sodium-(s)-lactate solution …	15375806	30
Caelo	Sodium-(s)-lactate solution …	15375808	14
Caelo	Sodium-(s)-lactate solution …	1537806	1
Caelo	Sodium-(s)-lactate solution …	16056201	53
Caelo	Sodium-(s)-lactate solution …	16056201-20170704Ma1	1
Caelo	Sodium-(s)-lactate solution …	16056206	34
Caelo	Sodium-(s)-lactate solution …	16056207	6
Caelo	Sodium-(s)-lactate solution …	163210	1
Caelo	Sodium-(s)-lactate solution …	16321001	11
Caelo	Sodium-(s)-lactate solution …	16321002	23
Caelo	Sodium-(s)-lactate solution …	16321003	6
Caelo	Sodium-(s)-lactate solution …	16321004	1
Caelo	Sodium-(s)-lactate solution …	16321008	45
Caelo	Sodium-(s)-lactate solution …	16321009	5
Caelo	Sodium-(s)-lactate solution …	17097701	10
Caelo	Sodium-(s)-lactate solution …	17097704	75
Caelo	Sodium-(s)-lactate solution …	170977045365	1
Caelo	Sodium-(s)-lactate solution …	17097708	13
Caelo	Sodium-(s)-lactate solution …	17097709	52
Caelo	Sodium-(s)-lactate solution …	170977095567	1
Caelo	Sodium-(s)-lactate solution …	1731506	1
Caelo	Sodium-(s)-lactate solution …	17315301	73
Caelo	Sodium-(s)-lactate solution …	17315302	18
Caelo	Sodium-(s)-lactate solution …	17315306	96
Caelo	Sodium-(s)-lactate solution …	173153065758	1
Caelo	Sodium-(s)-lactate solution …	17315307	10
Caelo	Sodium-(s)-lactate solution …	17375301	1
Caelo	Sodium-(s)-lactate solution …	180135803	1
Caelo	Sodium-(s)-lactate solution …	181357002	1
Caelo	Sodium-(s)-lactate solution …	18135702	78
Caelo	Sodium-(s)-lactate solution …	18135702-N20190115Ma	1
Caelo	Sodium-(s)-lactate solution …	18135802	14
Caelo	Sodium-(s)-lactate solution …	18135803	64
Caelo	Sodium-(s)-lactate solution …	18135806	12
Caelo	Sodium-(s)-lactate solution …	1814501	1
Caelo	Sodium-(s)-lactate solution …	18173903	1
Caelo	Sodium-(s)-lactate solution …	183145001	5
Caelo	Sodium-(s)-lactate solution …	18314501	71
Caelo	Sodium-(s)-lactate solution …	18314505	41
Caelo	Sodium-(s)-lactate solution …	18314506	12
Caelo	Sodium-(s)-lactate solution …	18314507	50
Caelo	Sodium-(s)-lactate solution …	18314508	4
Caelo	Sodium-(s)-lactate solution …	1831455	1
Caelo	Sodium-(s)-lactate solution …	183145501	1
Caelo	Sodium-(s)-lactate solution …	1831505	1
Caelo	Sodium-(s)-lactate solution …	19135702	1
Caelo	Sodium-(s)-lactate solution …	1916670006	1
Caelo	Sodium-(s)-lactate solution …	191667001	13
Caelo	Sodium-(s)-lactate solution …	191667002	40
Caelo	Sodium-(s)-lactate solution …	191667002P-200407-5	1
Caelo	Sodium-(s)-lactate solution …	191667006	54
Caelo	Sodium-(s)-lactate solution …	191667007	20
Caelo	Sodium-(s)-lactate solution …	19167006	1
Caelo	Sodium-(s)-lactate solution …	19667001	1
Caelo	Sodium-(s)-lactate solution …	20000467002	36
Caelo	Sodium-(s)-lactate solution …	20000467004	42
Caelo	Sodium-(s)-lactate solution …	20000467005	6
Caelo	Sodium-(s)-lactate solution …	20000467006	13
Caelo	Sodium-(s)-lactate solution …	2000467002	1
Caelo	Sodium-(s)-lactate solution …	2000467004	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Sodium-(s)-lactate solution ...	2014U-03157	1
Caelo	Sodium-(s)-lactate solution ...	20310511-1	1
Caelo	Sodium-(s)-lactate solution ...	21000068002	20
Caelo	Sodium-(s)-lactate solution ...	21000068004	1
Caelo	Sodium-(s)-lactate solution ...	2100068002	1
Caelo	Sodium-(s)-lactate solution ...	2100322100002	1
Caelo	Sodium-(s)-lactate solution ...	21003221001	9
Caelo	Sodium-(s)-lactate solution ...	21003221002	6
Caelo	Sodium-(s)-lactate solution ...	21003221006	3
Caelo	Sodium-(s)-lactate solution ...	21003221008	3
Caelo	Sodium-(s)-lactate solution ...	2100322101	1
Caelo	Sodium-(s)-lactate solution ...	2119I-03157	1
Caelo	Sodium-(s)-lactate solution ...	2415I-03157	1
Caelo	Sodium-(s)-lactate solution ...	2516A-03157	1
Caelo	Sodium-(s)-lactate solution ...	2804	1
Caelo	Sodium-(s)-lactate solution ...	2822	1
Caelo	Sodium-(s)-lactate solution ...	2889	1
Caelo	Sodium-(s)-lactate solution ...	2918E-03157	1
Caelo	Sodium-(s)-lactate solution ...	3041410	1
Caelo	Sodium-(s)-lactate solution ...	3051805	1
Caelo	Sodium-(s)-lactate solution ...	31070124	1
Caelo	Sodium-(s)-lactate solution ...	3111Q-03157	1
Caelo	Sodium-(s)-lactate solution ...	3351	1
Caelo	Sodium-(s)-lactate solution ...	3429	1
Caelo	Sodium-(s)-lactate solution ...	5(17315301)	1
Caelo	Sodium-(s)-lactate solution ...	507213157	1
Caelo	Sodium-(s)-lactate solution ...	6(21000068002)	1
Caelo	Sodium-(s)-lactate solution ...	8705	1
Caelo	Sodium-(s)-lactate solution ...	N-260313-3	1
Caeol/Noweda	Sodium-(s)-lactate solution ...	18314507	1
Caeol	Sodium-(s)-lactate solution ...	18314507	2
Caerlo/Noweda	Sodium-(s)-lactate solution ...	21003221002	1
Caesar & Lorenz GmbH	Sodium-(s)-lactate solution ...	16056206	1
Caesar & Lorenz GmbH	Sodium-(s)-lactate solution ...	177097704	1
Caesar & Lorenz GmbH	Sodium-(s)-lactate solution ...	18314507	1
Caesar & Lorenz GmbH	Sodium-(s)-lactate solution ...	71014/1	1
Caesar & Loretz GmbH / ...	Sodium-(s)-lactate solution ...	16321008	1
Caesar & Loretz GmbH / ...	Sodium-(s)-lactate solution ...	21000068002	1
Caesar & Loretz GmbH / ...	Sodium-(s)-lactate solution ...	14271901	1
Caesar & Loretz GmbH / ...	Sodium-(s)-lactate solution ...	191667006	1
Caesar & Loretz GmbH / ...	Sodium-(s)-lactate solution ...	18314507	1
Caesar & Loretz GmbH / ...	Sodium-(s)-lactate solution ...	18135702	2
Caesar & Loretz GmbH / ...	Sodium-(s)-lactate solution ...	18314507	1
Caesar & Loretz GmbH/ F...	Sodium-(s)-lactate solution ...	18314505	1
Caesar & Loretz GmbH/ G...	Sodium-(s)-lactate solution ...	21000068002	1
Caesar & Loretz GmbH/ J...	Sodium-(s)-lactate solution ...	20000467004	1
Caesar & Loretz GmbH/ K...	Sodium-(s)-lactate solution ...	191667002	1
Caesar & Loretz GmbH/ K...	Sodium-(s)-lactate solution ...	191667006	1
Caesar & Loretz GmbH/ K...	Sodium-(s)-lactate solution ...	20000467002	1
Caesar & Loretz GmbH/ P...	Sodium-(s)-lactate solution ...	18135806	2
Caesar & Loretz GmbH/AEP	Sodium-(s)-lactate solution ...	18314501	1
Caesar & Loretz GmbH/AEP	Sodium-(s)-lactate solution ...	191667006	1
Caesar & Loretz GmbH/AHD	Sodium-(s)-lactate solution ...	18135803	1
Caesar & Loretz GmbH/AHD	Sodium-(s)-lactate solution ...	18314505	1
Caesar & Loretz GmbH/An...	Sodium-(s)-lactate solution ...	191667001	1
Caesar & Loretz GmbH/Fi...	Sodium-(s)-lactate solution ...	18314505	1
Caesar & Loretz GmbH/Gehe	Sodium-(s)-lactate solution ...	18314501	1
Caesar & Loretz GmbH/gehe	Sodium-(s)-lactate solution ...	191667002	1
Caesar & Loretz GmbH/Gehe	Sodium-(s)-lactate solution ...	191667006	1
Caesar & Loretz GmbH/Gehe	Sodium-(s)-lactate solution ...	21000068002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/GEHE	Sodium-(s)-lactate solution …	21003221006	1
Caesar & Loretz GmbH/Ge…	Sodium-(s)-lactate solution …	191667007	1
Caesar & Loretz GmbH/Je…	Sodium-(s)-lactate solution …	18135806	1
Caesar & Loretz GmbH/Je…	Sodium-(s)-lactate solution …	191667001	1
Caesar & Loretz GmbH/Je…	Sodium-(s)-lactate solution …	191667006	1
Caesar & Loretz GmbH/Je…	Sodium-(s)-lactate solution …	21000068002	1
Caesar & Loretz GmbH/Kehr	Sodium-(s)-lactate solution …	21000068002	1
Caesar & Loretz GmbH/Kr…	Sodium-(s)-lactate solution …	20000467004	2
Caesar & Loretz GmbH/Ph…	Sodium-(s)-lactate solution …	18135803	1
Caesar & Loretz GmbH/ph…	Sodium-(s)-lactate solution …	18314506	3
Caesar & Loretz GmbH/Ph…	Sodium-(s)-lactate solution …	21000068002	1
Caesar & Loretz GmbH/Ph…	Sodium-(s)-lactate solution …	21003221001	1
Caesar & Loretz GmbH/Px	Sodium-(s)-lactate solution …	18135803	1
Caesar & Loretz GmbH/Sa…	Sodium-(s)-lactate solution …	173153	1
Caesar & Loretz GmbH/Sa…	Sodium-(s)-lactate solution …	18314501	1
Caesar & Loretz GmbH/Sa…	Sodium-(s)-lactate solution …	191667002	1
Caesar & Loretz GmbH/Sa…	Sodium-(s)-lactate solution …	20000467006	1
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	14271901	1
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	14353205	1
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	17097704	1
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18135702	5
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18135802	3
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18135803	5
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18135806	5
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	183145001	1
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18314501	10
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18314502	1
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18314505	7
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18314506	3
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18314507	8
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18314508	4
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	18314509	1
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	191667001	2
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	191667002	12
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	191667005	1
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	191667006	8
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	191667007	7
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	20000467002	4
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	20000467004	6
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	20000467005	2
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	20000467006	8
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	21000068002	7
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	21003221001	4
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	21003221002	1
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	21003221006	2
Caesar & Loretz GmbH	Sodium-(s)-lactate solution …	21003221008	1
Caesar & Loretz Hilden	Sodium-(s)-lactate solution …	18135702	2
Caesar & Loretz Hilden	Sodium-(s)-lactate solution …	18314505	1
Caesar & Loretz Hilden	Sodium-(s)-lactate solution …	191667002	1
Caesar & Loretz/Gehe	Sodium-(s)-lactate solution …	18314505	1
Caesar & Loretz/Noweda	Sodium-(s)-lactate solution …	15375806	1
Caesar & Loretz/Sanacorp	Sodium-(s)-lactate solution …	15251101	1
Caesar & Loretz/Sanacorp	Sodium-(s)-lactate solution …	17097708	1
Caesar & Loretz	Sodium-(s)-lactate solution …	16056206	1
Caesar & Loretz	Sodium-(s)-lactate solution …	16321002	1
Caesar & Loretz	Sodium-(s)-lactate solution …	17315301	1
Caesar und Loretz GmbH	Sodium-(s)-lactate solution …	17315301	1
Caesar&Loretz GmbH/ San…	Sodium-(s)-lactate solution …	17097704	2
Caesar&Loretz GmbH	Sodium-(s)-lactate solution …	15375806	1
Caesar&loretz,Phoenix	Sodium-(s)-lactate solution …	14182902	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar&Loretz	Sodium-(s)-lactate solution ...	15251101	1
Caesar&LoretzGmbH, Phoe...	Sodium-(s)-lactate solution ...	18135803	1
Caesar/Lorenz	Sodium-(s)-lactate solution ...	12294610	1
Caleo/ Noweda	Sodium-(s)-lactate solution ...	17315306	1
Caleo/ Noweda	Sodium-(s)-lactate solution ...	18135803	1
Cealo / Otto Geilenkirc...	Sodium-(s)-lactate solution ...	18314505	2
Cealo/Phönix	Sodium-(s)-lactate solution ...	17315301	1
Cealo/Sanacorp	Sodium-(s)-lactate solution ...	18135803	1
Ebert 02.08.2016	Sodium-(s)-lactate solution ...	15375808	1
EuRho	Sodium-(s)-lactate solution ...	18314501	1
Euro OTC	Sodium-(s)-lactate solution ...		1
Euro OTC	Sodium-(s)-lactate solution ...	14039503	1
Euro OTC	Sodium-(s)-lactate solution ...	14271907	1
Euro OTC	Sodium-(s)-lactate solution ...	18135803	1
Fagron	Sodium-(s)-lactate solution ...	12J18-M04	6
Fagron	Sodium-(s)-lactate solution ...	1311002383	1
Fagron	Sodium-(s)-lactate solution ...	1317I-03157	1
Fagron	Sodium-(s)-lactate solution ...	14/13	1
Fagron	Sodium-(s)-lactate solution ...	14271901	1
Fagron	Sodium-(s)-lactate solution ...	14271907	1
Fagron	Sodium-(s)-lactate solution ...	1453202	1
Fagron	Sodium-(s)-lactate solution ...	14A21-810-295977	1
Fagron	Sodium-(s)-lactate solution ...	14A21-B10	4
Fagron	Sodium-(s)-lactate solution ...	14A21-B10-290492	2
Fagron	Sodium-(s)-lactate solution ...	14a21-b10-295977	1
Fagron	Sodium-(s)-lactate solution ...	17315301	1
Fagron	Sodium-(s)-lactate solution ...	K40875122	1
Fiebig	Sodium-(s)-lactate solution ...	17315302	2
Gehe 03.11.21 EK:11,58EUR	Sodium-(s)-lactate solution ...	211108NL	1
Gehe 12.1.15	Sodium-(s)-lactate solution ...	14271907	1
Gehe amax	Sodium-(s)-lactate solution ...	15375806	1
Gehe	Sodium-(s)-lactate solution ...	10094060	1
Gehe	Sodium-(s)-lactate solution ...	13267009	1
Gehe	Sodium-(s)-lactate solution ...	15375808	2
Gehe	Sodium-(s)-lactate solution ...	16056206	1
Gehe	Sodium-(s)-lactate solution ...	16321003	1
Gehe	Sodium-(s)-lactate solution ...	17097701	2
Gehe	Sodium-(s)-lactate solution ...	17097708	1
Gehe	Sodium-(s)-lactate solution ...	17097709	2
GEHE	Sodium-(s)-lactate solution ...	17315301	1
GEHE	Sodium-(s)-lactate solution ...	17315306	1
Gehe	Sodium-(s)-lactate solution ...	1813502	1
Gehe	Sodium-(s)-lactate solution ...	18135702	4
GEHE	Sodium-(s)-lactate solution ...	18135702	1
Gehe	Sodium-(s)-lactate solution ...	18135802	1
Gehe	Sodium-(s)-lactate solution ...	18135803	1
GEHE	Sodium-(s)-lactate solution ...	18135803	3
Gehe	Sodium-(s)-lactate solution ...	18314501	1
GEHE	Sodium-(s)-lactate solution ...	18314501	2
Gehe	Sodium-(s)-lactate solution ...	18314506	1
Gehe	Sodium-(s)-lactate solution ...	18314507	1
Gehe	Sodium-(s)-lactate solution ...	191667002	1
Gehe	Sodium-(s)-lactate solution ...	20000467005	2
Henry Lamotte Oils GmbH...	Sodium-(s)-lactate solution ...	16056206	1
Henry Lamotte Oils GmbH	Sodium-(s)-lactate solution ...	16321001	1
Jenne	Sodium-(s)-lactate solution ...	191667007	1
Jenne	Sodium-(s)-lactate solution ...	21000068002	1
Kehr/Sanacorp	Sodium-(s)-lactate solution ...	17315301	1
Kehr	Sodium-(s)-lactate solution ...	17097709	1
Klenk	Sodium-(s)-lactate solution ...	13267001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Klenk	Sodium-(s)-lactate solution ...	18135702	1
L30	Sodium-(s)-lactate solution ...	17315301	1
Lamotte/Phönix	Sodium-(s)-lactate solution ...	16056201	1
Lamotte/Sanacorp	Sodium-(s)-lactate solution ...	17315301	1
Noweda 18.05.2015	Sodium-(s)-lactate solution ...	14353205	1
Noweda	Sodium-(s)-lactate solution ...	12294604	1
Noweda	Sodium-(s)-lactate solution ...	13267001	1
Noweda	Sodium-(s)-lactate solution ...	17097704	2
Noweda	Sodium-(s)-lactate solution ...	17097709	1
Noweda	Sodium-(s)-lactate solution ...	17315301	1
Noweda	Sodium-(s)-lactate solution ...	18135806	1
Noweda	Sodium-(s)-lactate solution ...	18314501	1
Noweda	Sodium-(s)-lactate solution ...	20000467002	1
Noweda	Sodium-(s)-lactate solution ...	20000467006	1
Otto Fischar	Sodium-(s)-lactate solution ...	16056201	1
Pharmachem/AHD	Sodium-(s)-lactate solution ...	17097704	1
phoenix	Sodium-(s)-lactate solution ...	14271901	2
phoenix	Sodium-(s)-lactate solution ...	14271907	1
Phoenix	Sodium-(s)-lactate solution ...	14353210	1
phoenix	Sodium-(s)-lactate solution ...	15251101	2
Phoenix	Sodium-(s)-lactate solution ...	15251101	1
Phoenix	Sodium-(s)-lactate solution ...	16056201	1
Phoenix	Sodium-(s)-lactate solution ...	17097704	1
Phoenix	Sodium-(s)-lactate solution ...	17315306	1
Phoenix	Sodium-(s)-lactate solution ...	17315307	1
Phoenix	Sodium-(s)-lactate solution ...	18135803	1
Phoenix	Sodium-(s)-lactate solution ...	18314501	1
Phoenix	Sodium-(s)-lactate solution ...	3110	1
Phoenix	Sodium-(s)-lactate solution ...	3240	1
Phönix Gotha	Sodium-(s)-lactate solution ...	K40875122	1
Phönix, 20.09.2013	Sodium-(s)-lactate solution ...	13111705	1
Phönix, Caesar&Loretz G...	Sodium-(s)-lactate solution ...	18314506	1
phönix	Sodium-(s)-lactate solution ...	12180404/8	1
Phönix	Sodium-(s)-lactate solution ...	12180407	1
Phönix	Sodium-(s)-lactate solution ...	14271901	1
Phonix	Sodium-(s)-lactate solution ...	17097701	1
Phönix	Sodium-(s)-lactate solution ...	17097704	2
Phönix	Sodium-(s)-lactate solution ...	17315301	1
Phönix	Sodium-(s)-lactate solution ...	191667006	2
Phönix	Sodium-(s)-lactate solution ...	20000467004	1
phönix	Sodium-(s)-lactate solution ...	9/AKD56	1
PKH Halle	Sodium-(s)-lactate solution ...	17315306	1
Sana	Sodium-(s)-lactate solution ...	20000467002	1
Sanacorp/Caesar & Loret...	Sodium-(s)-lactate solution ...	18135803	1
Sanacorp	Sodium-(s)-lactate solution ...	11/AKD13	1
Sanacorp	Sodium-(s)-lactate solution ...	12180407	1
Sanacorp	Sodium-(s)-lactate solution ...	14039508	1
Sanacorp	Sodium-(s)-lactate solution ...	14182902	1
Sanacorp	Sodium-(s)-lactate solution ...	14271902	1
Sanacorp	Sodium-(s)-lactate solution ...	14353210	1
Sanacorp	Sodium-(s)-lactate solution ...	15375806	1
Sanacorp	Sodium-(s)-lactate solution ...	16056206	1
Sanacorp	Sodium-(s)-lactate solution ...	17097708	1
Sanacorp	Sodium-(s)-lactate solution ...	17315301	1
Sanacorp	Sodium-(s)-lactate solution ...	18135702	1
Sanacorp	Sodium-(s)-lactate solution ...	18135802	1
Sanacorp	Sodium-(s)-lactate solution ...	183145001	2
Sanacorp	Sodium-(s)-lactate solution ...	18314501	1
Sanacorp	Sodium-(s)-lactate solution ...	191667001	1
Sanacorp	Sodium-(s)-lactate solution ...	191667007	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Sodium-(s)-lactate solution ...	21003221001	1
Sanacorp	Sodium-(s)-lactate solution ...	21003221002	1

- 295 404 spectra from 1324 *Apo-Ident* customers from a total of 52 801 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Sodium-(s)-lactate solution 50%* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Sodium-(s)-lactate solution 50%* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	380	0	68 119
Type B	0	120	0	111 193
Type C	0	2051	3	295 404

The substance/substance group *Sodium-(s)-lactate solution 50%* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.4211 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.8539 % (> 99.7079 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Sodium-(s)-lactate solution 50%* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Lotio Cordes®	35.04	–
Liquorice juice purified, diluted	36.79	–
Hydrated liniment SR/DAC (NRF p.40)	43.67	–
Condurango wine	46.51	–
Glycolic acid 70%	51.39	–

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Sodium-(S)-lactate solution 50%* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30621	32839	2.97	35.78
31321	32839	2.10	37.47
32586	34729	7.29	46.23
32839	32839	0.00	37.52
32917	32839	2.52	35.04
34729	34729	0.00	40.83
35824	35824	0.00	37.93
35830	35830	0.00	36.10

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Soft ointment**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30896-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Soft ointment; Unguentum molle

Special notes

When selecting the *Soft ointment* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Soft ointment	9	36	513

Second-stage model

For differentiation of the substance/substance group *Soft ointment* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Soft ointment*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Soft ointment	12353301	30896	80	20121218
Caelo	Soft ointment	14080501	31452	40	AR-15-FG-000142-01
Caelo	Soft ointment	153768	31984	60	20151103*
Caelo	Soft ointment	160833	32097	40	20160322*
Caelo	Soft ointment	163134	32871	40	20161116*
Caelo	Soft ointment	21000780	35342	40	20210310*
Caelo	Soft ointment	21000781	35343	40	20210310*
Henry Lamotte	Soft ointment	5215100	30924	50	20111111
Henry Lamotte	Soft ointment	8005213003	34687	40	20190318

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 430 spectra of 9 reference samples from the substance/substance group *Soft ointment*. These samples are listed above in the *calibration samples* section. The reference samples come from 9 different batches.
- 68 069 spectra from a total of 1404 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 1650 spectra of 40 reference samples from the substance/substance group *Soft ointment*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 36 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Soft ointment	21005256	36212	40
Caelo	Soft ointment	153770	31985	60
Caelo	Soft ointment	153772	31987	60
Caelo	Soft ointment	160830	32094	40
Caelo	Soft ointment	160831	32095	30
Caelo	Soft ointment	160832	32096	40
Caelo	Soft ointment	161463	32406	40
Caelo	Soft ointment	161464	32407	40
Caelo	Soft ointment	162452	32496	40
Caelo	Soft ointment	162453	32497	40
Caelo	Soft ointment	162454	32498	40
Caelo	Soft ointment	162455	32499	40
Caelo	Soft ointment	171969	33560	40
Caelo	Soft ointment	171971	33561	40
Caelo	Soft ointment	171972	33562	40
Caelo	Soft ointment	172631	33748	40
Caelo	Soft ointment	172632	33749	40
Caelo	Soft ointment	180021	34012	40
Caelo	Soft ointment	182012	34258	40
Caelo	Soft ointment	182511	34356	40
Caelo	Soft ointment	191915	34784	40
Caelo	Soft ointment	190824	34785	40
Caelo	Soft ointment	20001408	34964	40
Caelo	Soft ointment	21000779	35341	40
Caelo	Soft ointment	21000782	35344	40
Caelo	Soft ointment	21000783	35345	40
Caelo	Soft ointment	21002255	35863	50
Caelo	Soft ointment	21002256	35864	50
Caelo	Soft ointment	21002258	35865	50
Caelo	Soft ointment	21002259	35866	50
Caelo	Soft ointment	21002260	35867	50
Caelo	Soft ointment	21003560	35921	40
Caelo	Soft ointment	21003561	35922	10
Caelo	Soft ointment	21003797	35923	10
Caelo	Soft ointment	22001384	36414	40
Caelo	Soft ointment	22001708	36415	10
Caelo	Soft ointment	153768	31983	60
Caelo	Soft ointment	153770	31986	60
Caelo	Soft ointment	153772	31988	60
Caelo	Soft ointment	172632	33750	40

- 109 663 spectra from a total of 2629 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 5306 spectra from 975 *Apo-Ident* customers from 529 batches from the substance/substance group *Soft ointment*.

- Among them are spectra of independent samples from 512 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Soft ointment	14007601	1
	Soft ointment	15059301	1
	Soft ointment	16G18-T02-035248	1
AEP/Caaelo/19.06.20	Soft ointment	19305101	1
AEP	Soft ointment	19191501	1
AHC/Lamotte	Soft ointment	8002875005	1
AHC	Soft ointment	19305101	1
AHD 02.09.14 EK 5,03	Soft ointment	5691800	1
AHD 17.11.14 EK 5,51	Soft ointment	13I24-T01-006925	1
ahd/lamotte	Soft ointment	5789000	1
AHD	Soft ointment	17076601	1
AHDE 03.06.2015	Soft ointment	14375602	2
Ahde 20.11.17	Soft ointment	17076401	1
AHL	Soft ointment	6001368001	2
AHL	Soft ointment	8002320004	1
ALH/ Henry	Soft ointment	8002875006	1
Allianc 03.02.15	Soft ointment	14375601	1
Alliance Healthcare Hen...	Soft ointment	8004399002	1
Alliance Healthcare/Hed...	Soft ointment	281897	1
Alliance Healthcare	Soft ointment	14080201	1
Alliance Healthcare	Soft ointment	18251101	2
Alliance Healthcare	Soft ointment	20001409001	1
Alliance Healthcare	Soft ointment	298070	1
Alliance	Soft ointment	18251101	1
Allianz Healthcare 11.0...	Soft ointment	14375602	1
Allianz Healthcare	Soft ointment	19082302	1
Allianz Healthcare	Soft ointment	19191602	1
Allianz Healthcare	Soft ointment	19305101	1
Alte Apotheke	Soft ointment	16146103	1
Anzag 18.04.14 EK:3,87	Soft ointment	1324-T02-006929	1
Anzag 23.01.2013	Soft ointment	12353301	1
Anzag 27.6.17	Soft ointment	16313401	1
Anzag 31.01.13 ek: 5,10EUR	Soft ointment	12353201	1
Anzag ek:5,12EUR 19.09.12	Soft ointment	12091402	1
Anzag	Soft ointment	15377101	1
Anzag	Soft ointment	16A21-T05-029597	1
Anzag	Soft ointment	17A03-T01-039997	1
Anzag	Soft ointment	18000135	1
Anzag	Soft ointment	18002039	1
Anzag	Soft ointment	267553	1
Anzag	Soft ointment	269470	1
Anzag;21.03.15;3,53EUR	Soft ointment	14375601	1
Anzag;27.10.14;3,28EUR	Soft ointment	14202301	1
ApoAmKlini	Soft ointment	1118Q-02542	2
apomix	Soft ointment	16146401	1
BASF AG	Soft ointment	291333	1
Beiersdorf/Phoenix	Soft ointment	16313401	1
Beiersdorf	Soft ointment	16146301	1
Berkel AHK	Soft ointment	13387402	1
Berkel AHK	Soft ointment	14007601	1
Berkel AHK	Soft ointment	14202001	1
Berkel AHK	Soft ointment	14202201	2
Bomastus	Soft ointment	291333	1
Bombast	Soft ointment	21003962	1
Bombastus	Soft ointment	15377001	1
Bombastus	Soft ointment	16083001	1
Bombastus	Soft ointment	16083101	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Soft ointment	16146301	1
Bombastus	Soft ointment	17000369	4
Bombastus	Soft ointment	17000370	7
Bombastus	Soft ointment	18000134	6
Bombastus	Soft ointment	18000135	3
Bombastus	Soft ointment	18000136	3
Bombastus	Soft ointment	18002038	8
Bombastus	Soft ointment	18002039	4
Bombastus	Soft ointment	18002040	5
Bombastus	Soft ointment	18002978	7
Bombastus	Soft ointment	18004473	2
Bombastus	Soft ointment	18004474	1
Bombastus	Soft ointment	18004475	12
Bombastus	Soft ointment	18006880	5
Bombastus	Soft ointment	18006881	2
Bombastus	Soft ointment	18006882	8
Bombastus	Soft ointment	18163001	2
Bombastus	Soft ointment	19002112	5
Bombastus	Soft ointment	19002113	4
Bombastus	Soft ointment	19002114	8
Bombastus	Soft ointment	19002576	3
Bombastus	Soft ointment	19003312	1
Bombastus	Soft ointment	19003313	7
Bombastus	Soft ointment	19005876	2
Bombastus	Soft ointment	19005877	4
Bombastus	Soft ointment	19005878	5
Bombastus	Soft ointment	19305101	1
Bombastus	Soft ointment	20001428	5
Bombastus	Soft ointment	20002930	6
Bombastus	Soft ointment	20004418	2
Bombastus	Soft ointment	20004419	4
Bombastus	Soft ointment	2004418	1
Bombastus	Soft ointment	21000402	1
Bombastus	Soft ointment	21002015	2
Bombastus	Soft ointment	21002016	2
Bombastus	Soft ointment	21003961	1
Bombastus	Soft ointment	21003962	1
Bombastus	Soft ointment	254399	1
Bombastus	Soft ointment	261106	1
Bombastus	Soft ointment	262274	1
Bombastus	Soft ointment	269468	1
Bombastus	Soft ointment	269469	1
Bombastus	Soft ointment	271430	1
Bombastus	Soft ointment	275422	4
Bombastus	Soft ointment	275424	1
Bombastus	Soft ointment	276854	1
Bombastus	Soft ointment	278047	1
Bombastus	Soft ointment	278048	2
Bombastus	Soft ointment	280166	2
Bombastus	Soft ointment	281897	1
Bombastus	Soft ointment	284056	1
Bombastus	Soft ointment	284057	1
Bombastus	Soft ointment	286012	7
Bombastus	Soft ointment	288013	4
Bombastus	Soft ointment	288702	1
Bombastus	Soft ointment	288704	7
Bombastus	Soft ointment	291333	3
Bombastus	Soft ointment	293336	3
Bombastus	Soft ointment	295313	4
Bombastus	Soft ointment	297077	9

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Soft ointment	298069	1
Bombastus	Soft ointment	298070	3
Bombastus	Soft ointment	299869	9
Bombastus	Soft ointment	300642	1
Bombastus	Soft ointment	302326	1
Bombastus	Soft ointment	302327	6
Bombastus	Soft ointment	304546	1
Bombastus	Soft ointment	304548	7
Bombastus	Soft ointment	305449	7
Bombastus	Soft ointment	305450	5
Bombastus	Soft ointment	305451	4
Bombastus	Soft ointment	308038	2
Bombastus	Soft ointment	308039	4
Bombastus	Soft ointment	308040	5
Bombastus	Soft ointment	309726	2
Bombastus	Soft ointment	309727	8
Bombastus	Soft ointment	3099727	1
Bombastus	Soft ointment	5317100	1
Bombastus	Soft ointment	60089901	1
Bombastus	Soft ointment	6862381	2
Bombastus	Soft ointment	8002875005	1
Caela	Soft ointment	15376801	1
Caeleo/ Krieger	Soft ointment	182021301	1
Caelo	Soft ointment		5
Caelo	Soft ointment	10(18002303)	1
Caelo	Soft ointment	100/AKD7	1
Caelo	Soft ointment	101/AKD12	1
Caelo	Soft ointment	101/AKD13	1
Caelo	Soft ointment	10101801	1
Caelo	Soft ointment	10111201	1
Caelo	Soft ointment	10377201	1
Caelo	Soft ointment	1097697	2
Caelo	Soft ointment	1097763	2
Caelo	Soft ointment	11111	1
Caelo	Soft ointment	11132901	1
Caelo	Soft ointment	11256302	1
Caelo	Soft ointment	11256701	5
Caelo	Soft ointment	11282101	2
Caelo	Soft ointment	11282102	2
Caelo	Soft ointment	11282201	7
Caelo	Soft ointment	11282301	2
Caelo	Soft ointment	118282301	1
Caelo	Soft ointment	12(20003575001)	1
Caelo	Soft ointment	12045401	1
Caelo	Soft ointment	12045501	2
Caelo	Soft ointment	12045601	1
Caelo	Soft ointment	12045701	5
Caelo	Soft ointment	12045702	5
Caelo	Soft ointment	12091303	3
Caelo	Soft ointment	12091401	1
Caelo	Soft ointment	12091402	6
Caelo	Soft ointment	12091403	1
Caelo	Soft ointment	12194401	3
Caelo	Soft ointment	12194501	7
Caelo	Soft ointment	12194502	4
Caelo	Soft ointment	12194601	13
Caelo	Soft ointment	12194701	1
Caelo	Soft ointment	12353201	15
Caelo	Soft ointment	12353301	9
Caelo	Soft ointment	12353302	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Soft ointment	12353401	10
Caelo	Soft ointment	1253201	1
Caelo	Soft ointment	1294502	1
Caelo	Soft ointment	13053601	14
Caelo	Soft ointment	13053602	6
Caelo	Soft ointment	13053701	1
Caelo	Soft ointment	13053801	20
Caelo	Soft ointment	13053901	7
Caelo	Soft ointment	1314I-02542	1
Caelo	Soft ointment	1314I2542	1
Caelo	Soft ointment	1319201	1
Caelo	Soft ointment	13192501	24
Caelo	Soft ointment	13192502	2
Caelo	Soft ointment	13192601	37
Caelo	Soft ointment	13192701	6
Caelo	Soft ointment	13192801	2
Caelo	Soft ointment	13192901	19
Caelo	Soft ointment	13192902	3
Caelo	Soft ointment	1324-T01-006925	1
Caelo	Soft ointment	13375402	11
Caelo	Soft ointment	13375501	14
Caelo	Soft ointment	13375503	2
Caelo	Soft ointment	13387402	19
Caelo	Soft ointment	13387403	3
Caelo	Soft ointment	14007301	24
Caelo	Soft ointment	14007302	2
Caelo	Soft ointment	14007402	3
Caelo	Soft ointment	14007501	12
Caelo	Soft ointment	14007601	31
Caelo	Soft ointment	1402201	1
Caelo	Soft ointment	14080101	1
Caelo	Soft ointment	14080201	15
Caelo	Soft ointment	14080301	5
Caelo	Soft ointment	14080501	9
Caelo	Soft ointment	14201801	3
Caelo	Soft ointment	14201901	7
Caelo	Soft ointment	14202001	17
Caelo	Soft ointment	14202011	1
Caelo	Soft ointment	1420220	1
Caelo	Soft ointment	14202201	24
Caelo	Soft ointment	14202301	38
Caelo	Soft ointment	14202302	8
Caelo	Soft ointment	1422001	1
Caelo	Soft ointment	14375601	19
Caelo	Soft ointment	14375602	29
Caelo	Soft ointment	14375603	1
Caelo	Soft ointment	14375801	9
Caelo	Soft ointment	14375901	10
Caelo	Soft ointment	1437591	1
Caelo	Soft ointment	150539301	1
Caelo	Soft ointment	15059301	23
Caelo	Soft ointment	15059401	14
Caelo	Soft ointment	15059402	2
Caelo	Soft ointment	15059501	1
Caelo	Soft ointment	15059601	6
Caelo	Soft ointment	15092014C	1
Caelo	Soft ointment	15204401	46
Caelo	Soft ointment	15204402	4
Caelo	Soft ointment	15204501	27
Caelo	Soft ointment	15204602	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Soft ointment	15204701	7
Caelo	Soft ointment	15204801	5
Caelo	Soft ointment	15376801	32
Caelo	Soft ointment	15376901	13
Caelo	Soft ointment	15377001	32
Caelo	Soft ointment	1537701	2
Caelo	Soft ointment	15377101	63
Caelo	Soft ointment	15377102	1
Caelo	Soft ointment	15e14-t01-022366	1
Caelo	Soft ointment	15E14-T02-022369	1
Caelo	Soft ointment	15l08t02025891	1
Caelo	Soft ointment	16024401	1
Caelo	Soft ointment	1603001	1
Caelo	Soft ointment	16045301	1
Caelo	Soft ointment	160620UM	1
Caelo	Soft ointment	160830	1
Caelo	Soft ointment	16083001	45
Caelo	Soft ointment	16083002	40
Caelo	Soft ointment	16083003	2
Caelo	Soft ointment	16083101	39
Caelo	Soft ointment	16083301	9
Caelo	Soft ointment	161111UM/16146103	1
Caelo	Soft ointment	16146103	9
Caelo	Soft ointment	1614620	1
Caelo	Soft ointment	16146201	10
Caelo	Soft ointment	16146301	24
Caelo	Soft ointment	16146302	5
Caelo	Soft ointment	16146401	11
Caelo	Soft ointment	161465	1
Caelo	Soft ointment	16146502	35
Caelo	Soft ointment	161465025263	1
Caelo	Soft ointment	16146503	3
Caelo	Soft ointment	1624501	1
Caelo	Soft ointment	16245201	50
Caelo	Soft ointment	16245202	7
Caelo	Soft ointment	16245301	51
Caelo	Soft ointment	16245401	37
Caelo	Soft ointment	16245402	7
Caelo	Soft ointment	16245502	3
Caelo	Soft ointment	16245502-20170818Ma7	1
Caelo	Soft ointment	16313401	45
Caelo	Soft ointment	16313402	4
Caelo	Soft ointment	16313501	53
Caelo	Soft ointment	1631351	1
Caelo	Soft ointment	16A21T05029597	1
Caelo	Soft ointment	16A21-T05-029597	1
Caelo	Soft ointment	16F03-T02-033989	2
Caelo	Soft ointment	16G18-T02-035248	1
Caelo	Soft ointment	170318183	1
Caelo	Soft ointment	170509UM/16245202	1
Caelo	Soft ointment	1706401	1
Caelo	Soft ointment	17064402	1
Caelo	Soft ointment	17076051	1
Caelo	Soft ointment	17076301	17
Caelo	Soft ointment	170764	1
Caelo	Soft ointment	17076401	89
Caelo	Soft ointment	17076401/5440	1
Caelo	Soft ointment	170764015337	1
Caelo	Soft ointment	17076402	2
Caelo	Soft ointment	17076501	53

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Soft ointment	17076601	67
Caelo	Soft ointment	17076701	8
Caelo	Soft ointment	17076801	10
Caelo	Soft ointment	17076801-20171106Ma6	1
Caelo	Soft ointment	17076901	13
Caelo	Soft ointment	170769901	1
Caelo	Soft ointment	170926UM/17076301	1
Caelo	Soft ointment	17104902	1
Caelo	Soft ointment	17196901	4
Caelo	Soft ointment	17197101	13
Caelo	Soft ointment	17197102	17
Caelo	Soft ointment	17197103	5
Caelo	Soft ointment	17197103-20180112Ma6	1
Caelo	Soft ointment	17197201	15
Caelo	Soft ointment	17203101	1
Caelo	Soft ointment	17250908	1
Caelo	Soft ointment	1726201	1
Caelo	Soft ointment	17263101	72
Caelo	Soft ointment	17263201	99
Caelo	Soft ointment	172632015583	1
Caelo	Soft ointment	17263202	18
Caelo	Soft ointment	17263301	3
Caelo	Soft ointment	17263302	9
Caelo	Soft ointment	17263302-20180404Ma8	1
Caelo	Soft ointment	17A03-T01-039997	1
Caelo	Soft ointment	17H28-T03-047827	2
Caelo	Soft ointment	180002401	2
Caelo	Soft ointment	18001701	11
Caelo	Soft ointment	18001801	13
Caelo	Soft ointment	18001901	12
Caelo	Soft ointment	18001901-W20190115Ma	1
Caelo	Soft ointment	18002001	18
Caelo	Soft ointment	18002101	15
Caelo	Soft ointment	18002201	3
Caelo	Soft ointment	18002302	26
Caelo	Soft ointment	18002303	13
Caelo	Soft ointment	18002320	1
Caelo	Soft ointment	18002401	90
Caelo	Soft ointment	18002501	70
Caelo	Soft ointment	1800251	1
Caelo	Soft ointment	180320UM/17263302	1
Caelo	Soft ointment	18051101	1
Caelo	Soft ointment	18061806	1
Caelo	Soft ointment	181016187	1
Caelo	Soft ointment	181102183	1
Caelo	Soft ointment	18121206	1
Caelo	Soft ointment	18140501	14
Caelo	Soft ointment	18140502	9
Caelo	Soft ointment	18140503	1
Caelo	Soft ointment	1814501	1
Caelo	Soft ointment	18152901	38
Caelo	Soft ointment	18162901	23
Caelo	Soft ointment	18163001	26
Caelo	Soft ointment	182011201	1
Caelo	Soft ointment	18201201	81
Caelo	Soft ointment	18201204	1
Caelo	Soft ointment	18201301	71
Caelo	Soft ointment	18201401	2
Caelo	Soft ointment	18201402	85
Caelo	Soft ointment	182014202	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Soft ointment	1821301	1
Caelo	Soft ointment	18251101	91
Caelo	Soft ointment	18251102	4
Caelo	Soft ointment	18251202	6
Caelo	Soft ointment	18251301	41
Caelo	Soft ointment	18251302	3
Caelo	Soft ointment	18521301	1
Caelo	Soft ointment	18E07-T09-055703	1
Caelo	Soft ointment	19000426001	7
Caelo	Soft ointment	1900044001	1
Caelo	Soft ointment	19000444001	10
Caelo	Soft ointment	19000445001	11
Caelo	Soft ointment	19000446001	34
Caelo	Soft ointment	1900046001	2
Caelo	Soft ointment	1900446001	2
Caelo	Soft ointment	19014902	1
Caelo	Soft ointment	19015001	13
Caelo	Soft ointment	19015020	1
Caelo	Soft ointment	19015101	39
Caelo	Soft ointment	19015102	10
Caelo	Soft ointment	190152002	2
Caelo	Soft ointment	19015202	58
Caelo	Soft ointment	1905202	1
Caelo	Soft ointment	19082301	23
Caelo	Soft ointment	19082302	95
Caelo	Soft ointment	19082401	57
Caelo	Soft ointment	19082501	13
Caelo	Soft ointment	1912A-02542	1
Caelo	Soft ointment	19190701	1
Caelo	Soft ointment	19191501	43
Caelo	Soft ointment	19191601	6
Caelo	Soft ointment	19191602	68
Caelo	Soft ointment	19191603	1
Caelo	Soft ointment	19191702	8
Caelo	Soft ointment	19191801	8
Caelo	Soft ointment	1919602	2
Caelo	Soft ointment	192936001	49
Caelo	Soft ointment	19305101	85
Caelo	Soft ointment	1982401	1
Caelo	Soft ointment	19B14T07064291	1
Caelo	Soft ointment	200001408001	1
Caelo	Soft ointment	200002174001	1
Caelo	Soft ointment	200003575001	1
Caelo	Soft ointment	20001408001	24
Caelo	Soft ointment	20001409001	52
Caelo	Soft ointment	20001409001/4720	2
Caelo	Soft ointment	20001409901	1
Caelo	Soft ointment	2000149001	4
Caelo	Soft ointment	20001641001	3
Caelo	Soft ointment	20001642001	5
Caelo	Soft ointment	200016641001	1
Caelo	Soft ointment	200021	1
Caelo	Soft ointment	20002174001	23
Caelo	Soft ointment	20002175001	12
Caelo	Soft ointment	20002175002	27
Caelo	Soft ointment	2000217502	1
Caelo	Soft ointment	20002176002	7
Caelo	Soft ointment	20002930	1
Caelo	Soft ointment	20003574002	30
Caelo	Soft ointment	20003575001	34

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Soft ointment	2000357501	1
Caelo	Soft ointment	20003576001	6
Caelo	Soft ointment	20011702	1
Caelo	Soft ointment	2001409001	3
Caelo	Soft ointment	2002175002	1
Caelo	Soft ointment	20170815-02542	1
Caelo	Soft ointment	20230712-4	1
Caelo	Soft ointment	21000779001	18
Caelo	Soft ointment	2100077901	1
Caelo	Soft ointment	21000780002	2
Caelo	Soft ointment	21000781001	41
Caelo	Soft ointment	21000782001	17
Caelo	Soft ointment	21000783001	5
Caelo	Soft ointment	21002255001	6
Caelo	Soft ointment	21002258001	5
Caelo	Soft ointment	21002259001	1
Caelo	Soft ointment	21002260002	18
Caelo	Soft ointment	2100226002	1
Caelo	Soft ointment	21003560001	7
Caelo	Soft ointment	2100779001	1
Caelo	Soft ointment	2100781001	2
Caelo	Soft ointment	210826	1
Caelo	Soft ointment	23061403	1
Caelo	Soft ointment	23101705	1
Caelo	Soft ointment	2513A-02542	1
Caelo	Soft ointment	26011904	1
Caelo	Soft ointment	2739	1
Caelo	Soft ointment	2820	1
Caelo	Soft ointment	284057	1
Caelo	Soft ointment	286011	1
Caelo	Soft ointment	29091804	1
Caelo	Soft ointment	299869	1
Caelo	Soft ointment	31031503	1
Caelo	Soft ointment	3213E2542	1
Caelo	Soft ointment	5011504	1
Caelo	Soft ointment	5081405	1
Caelo	Soft ointment	51123/1Sie	1
Caelo	Soft ointment	5448300	1
Caelo	Soft ointment	5789000	1
Caelo	Soft ointment	612212542	1
Caelo	Soft ointment	7051510	1
Caelo	Soft ointment	7071202	1
Caelo	Soft ointment	7076501	1
Caelo	Soft ointment	8002875005	1
Caelo	Soft ointment	8012014C	1
Caelo	Soft ointment	8012015C	1
Caelo	Soft ointment	8201402	1
Caelo	Soft ointment	92810389	1
Caelo	Soft ointment	Caelo	1
Caelo	Soft ointment	I3192502	1
Caelo	Soft ointment	pzn01097763	1
Caelo	Soft ointment	VFM002-1C	1
Caeolo/Ahd	Soft ointment	18201301	1
Caeolo/Gehe	Soft ointment	17263201	2
Caeolo/Phönix	Soft ointment	17076401	1
Caeolo/Sanacorp	Soft ointment	18163001	1
Caeolo/Sanacorp	Soft ointment	18251101	1
Caeöo/Noweda	Soft ointment	17076401	1
Caesar & Lorenz GmbH	Soft ointment	15376801	1
Caesar & Lorenz GmbH	Soft ointment	18002302	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Lorenz GmbH	Soft ointment	19191602	1
Caesar & Loretz GmbH / ...	Soft ointment	15204401	1
Caesar & Loretz GmbH / ...	Soft ointment	19082401	1
Caesar & Loretz GmbH / ...	Soft ointment	19191602	1
Caesar & Loretz GmbH / ...	Soft ointment	19082302	1
Caesar & Loretz GmbH / ...	Soft ointment	19015202	2
Caesar & Loretz GmbH / ...	Soft ointment	19191801	1
Caesar & Loretz GmbH / ...	Soft ointment	20001409001	1
Caesar & Loretz GmbH / ...	Soft ointment	19015202	1
Caesar & Loretz GmbH / ...	Soft ointment	20001409001	2
Caesar & Loretz GmbH / ...	Soft ointment	18201201	1
Caesar & Loretz GmbH / ...	Soft ointment	18201301	1
Caesar & Loretz GmbH / ...	Soft ointment	18251301	1
Caesar & Loretz GmbH / ...	Soft ointment	19082401	3
Caesar & Loretz GmbH /n...	Soft ointment	19305101	1
Caesar & Loretz GmbH, 4...	Soft ointment	13053601	1
Caesar & Loretz GmbH, P...	Soft ointment	18002501	1
Caesar & Loretz GmbH, P...	Soft ointment	19305101	1
Caesar & Loretz GmbH,Gehe	Soft ointment	20002174001	1
Caesar & Loretz GmbH/ A...	Soft ointment	18251301	1
Caesar & Loretz GmbH/ G...	Soft ointment	19000426001	1
Caesar & Loretz GmbH/ G...	Soft ointment	19000445001	2
Caesar & Loretz GmbH/ G...	Soft ointment	20001409001	1
Caesar & Loretz GmbH/ G...	Soft ointment	20003574002	1
Caesar & Loretz GmbH/ G...	Soft ointment	20003575001	1
Caesar & Loretz GmbH/ G...	Soft ointment	20003576001	1
Caesar & Loretz GmbH/ N...	Soft ointment	19082302	1
Caesar & Loretz GmbH/ N...	Soft ointment	20001409001	1
Caesar & Loretz GmbH/ P...	Soft ointment	19082301	1
Caesar & Loretz GmbH/ P...	Soft ointment	19305101	1
Caesar & Loretz GmbH/ P...	Soft ointment	6082302	1
Caesar & Loretz GmbH/ S...	Soft ointment	19000446001	1
Caesar & Loretz GmbH/AEP	Soft ointment	21000781001	2
Caesar & Loretz GmbH/AEP	Soft ointment	21002260002	1
Caesar & Loretz GmbH/Al...	Soft ointment	19082302	1
Caesar & Loretz GmbH/Fi...	Soft ointment	192936001	1
Caesar & Loretz GmbH/Fi...	Soft ointment	19082401	1
Caesar & Loretz GmbH/Fi...	Soft ointment	18251301	2
Caesar & Loretz GmbH/Fi...	Soft ointment	20002175002	1
Caesar & Loretz GmbH/Gehe	Soft ointment	18251101	1
Caesar & Loretz GmbH/Gehe	Soft ointment	19000444001	1
Caesar & Loretz GmbH/Gehe	Soft ointment	19015001	3
Caesar & Loretz GmbH/Gehe	Soft ointment	19191801	3
Caesar & Loretz GmbH/Gehe	Soft ointment	19305101	1
Caesar & Loretz GmbH/Gehe	Soft ointment	21002255001	1
Caesar & Loretz GmbH/Ge...	Soft ointment	19015202	1
Caesar & Loretz GmbH/Ge...	Soft ointment	19191501	1
Caesar & Loretz GmbH/Je...	Soft ointment	19082302	1
Caesar & Loretz GmbH/Je...	Soft ointment	19082401	1
Caesar & Loretz GmbH/Je...	Soft ointment	19191501	1
Caesar & Loretz GmbH/Je...	Soft ointment	192936001	4
Caesar & Loretz GmbH/Je...	Soft ointment	20001409001	1
Caesar & Loretz GmbH/Je...	Soft ointment	20003575001	2
Caesar & Loretz GmbH/Je...	Soft ointment	21000781001	1
Caesar & Loretz GmbH/Je...	Soft ointment	21002260002	1
Caesar & Loretz GmbH/Kehr	Soft ointment	19082301	1
Caesar & Loretz GmbH/No...	Soft ointment	19000445001	1
Caesar & Loretz GmbH/No...	Soft ointment	19015202	2
Caesar & Loretz GmbH/No...	Soft ointment	19082401	1
Caesar & Loretz GmbH/No...	Soft ointment	19305101	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/No…	Soft ointment	20001409001	4
Caesar & Loretz GmbH/No…	Soft ointment	21002260002	2
Caesar & Loretz GmbH/No…	Soft ointment	20001642001	2
Caesar & Loretz GmbH/Ph…	Soft ointment	20003574002	1
Caesar & Loretz GmbH/Ph…	Soft ointment	191916	1
Caesar & Loretz GmbH/Ph…	Soft ointment	19191602	1
Caesar & Loretz GmbH/ph…	Soft ointment	20003575001	1
Caesar & Loretz GmbH/Ph…	Soft ointment	21000779001	1
Caesar & Loretz GmbH/Ph…	Soft ointment	21002260002	2
Caesar & Loretz GmbH/Ph…	Soft ointment	21003560001	1
Caesar & Loretz GmbH/Ph…	Soft ointment	19015001	1
Caesar & Loretz GmbH/Ph…	Soft ointment	19082401	1
Caesar & Loretz GmbH/Ph…	Soft ointment	19191501	2
Caesar & Loretz GmbH/Ph…	Soft ointment	192936001	1
Caesar & Loretz GmbH/Ph…	Soft ointment	19305101	2
Caesar & Loretz GmbH/Ph…	Soft ointment	20001409001	2
Caesar & Loretz GmbH/Ph…	Soft ointment	20003574002	4
Caesar & Loretz GmbH/Ph…	Soft ointment	20003575001	1
Caesar & Loretz GmbH/Ph…	Soft ointment	21000781001	3
Caesar & Loretz GmbH/Ph…	Soft ointment	21000782001	1
Caesar & Loretz GmbH/Ph…	Soft ointment	21002258001	1
Caesar & Loretz GmbH/Ph…	Soft ointment	21002260002	1
Caesar & Loretz GmbH/Ph…	Soft ointment	21003560001	2
Caesar & Loretz GmbH/Sana	Soft ointment	20002175001	1
Caesar & Loretz GmbH/Sana	Soft ointment	21002260002	2
Caesar & Loretz GmbH/Sa…	Soft ointment	19082301	1
Caesar & Loretz GmbH/Sa…	Soft ointment	19305101	2
Caesar & Loretz GmbH/Sa…	Soft ointment	19082302	1
Caesar & Loretz GmbH/Sa…	Soft ointment	20001409	1
Caesar & Loretz GmbH/Sa…	Soft ointment	20002174001	1
Caesar & Loretz GmbH/Sa…	Soft ointment	20002175001	1
Caesar & Loretz GmbH/Sa…	Soft ointment	20002175002	1
Caesar & Loretz GmbH	Soft ointment	18002401	1
Caesar & Loretz GmbH	Soft ointment	18152901	1
Caesar & Loretz GmbH	Soft ointment	18162901	1
Caesar & Loretz GmbH	Soft ointment	18163001	4
Caesar & Loretz GmbH	Soft ointment	18201201	1
Caesar & Loretz GmbH	Soft ointment	18201301	6
Caesar & Loretz GmbH	Soft ointment	18201402	3
Caesar & Loretz GmbH	Soft ointment	182511	1
Caesar & Loretz GmbH	Soft ointment	18251101	15
Caesar & Loretz GmbH	Soft ointment	18251202	2
Caesar & Loretz GmbH	Soft ointment	18251301	7
Caesar & Loretz GmbH	Soft ointment	18251302	2
Caesar & Loretz GmbH	Soft ointment	19000426001	5
Caesar & Loretz GmbH	Soft ointment	19000444001	7
Caesar & Loretz GmbH	Soft ointment	19000445001	1
Caesar & Loretz GmbH	Soft ointment	19000446001	8
Caesar & Loretz GmbH	Soft ointment	19015001	2
Caesar & Loretz GmbH	Soft ointment	19015101	12
Caesar & Loretz GmbH	Soft ointment	19015102	5
Caesar & Loretz GmbH	Soft ointment	19015202	17
Caesar & Loretz GmbH	Soft ointment	19082301	9
Caesar & Loretz GmbH	Soft ointment	19082302	31
Caesar & Loretz GmbH	Soft ointment	19082401	14
Caesar & Loretz GmbH	Soft ointment	19082501	2
Caesar & Loretz GmbH	Soft ointment	19191501	17
Caesar & Loretz GmbH	Soft ointment	19191601	8
Caesar & Loretz GmbH	Soft ointment	19191602	25
Caesar & Loretz GmbH	Soft ointment	19191603	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Soft ointment	19191801	3
Caesar & Loretz GmbH	Soft ointment	192936001	20
Caesar & Loretz GmbH	Soft ointment	19305101	28
Caesar & Loretz GmbH	Soft ointment	20001408001	12
Caesar & Loretz GmbH	Soft ointment	20001409001	29
Caesar & Loretz GmbH	Soft ointment	20001641001	2
Caesar & Loretz GmbH	Soft ointment	20001642001	1
Caesar & Loretz GmbH	Soft ointment	20002174001	10
CAESAR & LORETZ GMBH	Soft ointment	20002174001	1
Caesar & Loretz GmbH	Soft ointment	20002175001	4
Caesar & Loretz GmbH	Soft ointment	20002175002	15
Caesar & Loretz GmbH	Soft ointment	20003574002	18
Caesar & Loretz GmbH	Soft ointment	20003575001	10
Caesar & Loretz GmbH	Soft ointment	20003575011	1
Caesar & Loretz GmbH	Soft ointment	20003576001	2
Caesar & Loretz GmbH	Soft ointment	21000779001	6
Caesar & Loretz GmbH	Soft ointment	21000780002	1
Caesar & Loretz GmbH	Soft ointment	21000781001	19
Caesar & Loretz GmbH	Soft ointment	21000782001	6
Caesar & Loretz GmbH	Soft ointment	21002255001	6
Caesar & Loretz GmbH	Soft ointment	21002258001	5
Caesar & Loretz GmbH	Soft ointment	21002260002	10
Caesar & Loretz GmbH	Soft ointment	21003560001	6
Caesar & Loretz GmbH7Ge...	Soft ointment	19191601	1
Caesar & Loretz Hilden/...	Soft ointment	18251202	1
Caesar & Loretz Hilden	Soft ointment	18201201	1
Caesar & Loretz Hilden	Soft ointment	19000444001	1
Caesar & Loretz Hilden	Soft ointment	20001408001	1
Caesar & Loretz	Soft ointment	16245201	1
Caesar & Loretz	Soft ointment	19305101	1
Caesar & Loretz	Soft ointment	20003574002	1
Caesar &Loretz GmbH	Soft ointment	14080501	1
Caesar u Loretz	Soft ointment	13053601	1
Caesar und Loretz GmbH	Soft ointment	18201402	1
Caesar und Loretz GmbH	Soft ointment	19082302	1
Caesar und Loretz	Soft ointment	19191501	1
caesar&loretz GmbH,Phönix	Soft ointment	12194502	1
caesar&loretz GmbH,Phönix	Soft ointment	15959301	1
Caesar&Loretz GmbH/Sana...	Soft ointment	14375602	1
Caesar&loretz,Phoenix	Soft ointment	12045401	1
Caesar&loretz,Phoenix	Soft ointment	12045501	1
Caesar&loretz,Phoenix	Soft ointment	12091303	1
Caesar&loretz,Phoenix	Soft ointment	12194502	1
CaesaruLorenz/Ebert	Soft ointment	15059401	2
Caleo/ Noweda	Soft ointment	18001801	1
Caleo/Fiebig	Soft ointment	18002303	1
Carlo/Phönix/5,40	Soft ointment	19082302	1
Cealo / Anzag	Soft ointment	220322(21002258001)	1
Cealo / Otto Geilenkirc...	Soft ointment	19082401	3
Cealo / Otto Geilenkirc...	Soft ointment	19082501	1
Cealo/Gehe	Soft ointment	18163001	1
Cealo/Gehe	Soft ointment	19000446001	2
Cealo/Jenne	Soft ointment	220824	1
Cealo/Noweda	Soft ointment	16313501	2
Cealo/Sanacorp	Soft ointment	15059301	1
Cealo	Soft ointment	17076401	1
Cealo	Soft ointment	19000444001	1
Devesa	Soft ointment	16083001	1
Ebert & Jacobi 19.07...	Soft ointment	16083101	1
Ebert & Jacobi	Soft ointment	18002302	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ebert & Jacobi	Soft ointment	18162901	1
Ebert & Jacobi	Soft ointment	18163001	2
Ebert & Jacobi	Soft ointment	18201402	1
Euro OTC	Soft ointment	13192902	1
Euro OTC	Soft ointment	14080201	1
Euro OTC	Soft ointment	14375602	1
Euro OTC	Soft ointment	16083101	1
Euro OTC	Soft ointment	16313401	1
Euro OTC	Soft ointment	16313501	4
Euro OTC	Soft ointment	17076601	1
Euro OTC	Soft ointment	18001701	1
Euro OTC	Soft ointment	18163001	1
Euro OTC	Soft ointment	19015202	5
Euro/ Phönix	Soft ointment	4517A-02542	1
euro//Noweda	Soft ointment	18001901	1
Euro/Phönix	Soft ointment	17076501	1
Fagron	Soft ointment	12E23-T01	1
Fagron	Soft ointment	12G09-T02	1
Fagron	Soft ointment	1324-t03-006933	1
Fagron	Soft ointment	13387402	1
Fagron	Soft ointment	13A08-T12-000186	1
Fagron	Soft ointment	13A08-T13-000189	1
Fagron	Soft ointment	13C04-T04-0002	1
Fagron	Soft ointment	13C04-T04-001709	3
Fagron	Soft ointment	13C04-T04-001710	2
Fagron	Soft ointment	13C04-T05	1
Fagron	Soft ointment	13E13-T12-003670	3
Fagron	Soft ointment	13E13-T14-003679	1
Fagron	Soft ointment	13I24-T01-006925	2
Fagron	Soft ointment	13I24-T02-006930	1
Fagron	Soft ointment	13I24-T03-006933	1
Fagron	Soft ointment	13I24-T04-006936	1
Fagron	Soft ointment	13l24-T01-006925	1
Fagron	Soft ointment	14201901	1
Fagron	Soft ointment	14202301	1
Fagron	Soft ointment	14E16-T03-012547	1
Fagron	Soft ointment	14e16-t03-012548	1
Fagron	Soft ointment	14E16-T03-012548	1
Fagron	Soft ointment	15059601	1
Fagron	Soft ointment	15377001	1
Fagron	Soft ointment	15A30	1
Fagron	Soft ointment	15A30-T02-018955	5
Fagron	Soft ointment	15E14-T02-022369	2
Fagron	Soft ointment	15f24-t16-023904	1
Fagron	Soft ointment	15F24T16023904	1
Fagron	Soft ointment	15F24-T16-023904	6
Fagron	Soft ointment	15I08-T01-0205888	1
Fagron	Soft ointment	15I08-T01-025888	1
Fagron	Soft ointment	15I08-T02-025891	1
Fagron	Soft ointment	16245401	1
Fagron	Soft ointment	16a21-t05-029597	1
Fagron	Soft ointment	16A21-T05-029597	14
Fagron	Soft ointment	16A21-T06-029597	1
Fagron	Soft ointment	16F03-T01033986	1
Fagron	Soft ointment	16F03-T01-033986	2
Fagron	Soft ointment	16F03-T02-033989	1
Fagron	Soft ointment	16F03-T03-033992	4
Fagron	Soft ointment	16G18-T02-035247	3
Fagron	Soft ointment	16G18-T02-035248	7
Fagron	Soft ointment	16G18-T02-035249	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Soft ointment	16G18-T03-035249	1
Fagron	Soft ointment	17076401	1
Fagron	Soft ointment	17076501	1
Fagron	Soft ointment	17263101	2
Fagron	Soft ointment	17A03-T01_039997	1
Fagron	Soft ointment	17A03-T01-039997	8
Fagron	Soft ointment	17A03-T01-039998	3
Fagron	Soft ointment	17H28-T03-047827	5
Fagron	Soft ointment	18002001	1
Fagron	Soft ointment	18e07t09055703	1
Fagron	Soft ointment	18E07T09055703	2
Fagron	Soft ointment	18E07-T09-055703	15
Fagron	Soft ointment	18E07-T09-0557703	1
Fagron	Soft ointment	19B14-t07-064291	1
Fagron	Soft ointment	19B14-T07-064291	24
Fagron	Soft ointment	19J09	1
Fagron	Soft ointment	19J09-T08-072597	20
Fagron	Soft ointment	19J-09-T08-072597	1
Fagron	Soft ointment	19JogTo8-o72596	1
Fagron	Soft ointment	19Jog-To8-o72596	1
Fagron	Soft ointment	2004-T02-082540	1
Fagron	Soft ointment	20C19-T11-077799	1
Fagron	Soft ointment	20c19-T11-077800	1
Fagron	Soft ointment	20C19-T11-077800	8
Fagron	Soft ointment	20I04-T02-082540	1
Fagron	Soft ointment	2514M-02542	1
Fagron	Soft ointment	299868	1
Fagron	Soft ointment	4113A-02542	1
Fagron	Soft ointment	5869200	1
Fagron	Soft ointment	701878-0002	1
Fagron	Soft ointment	T02-0825400	3
Fagron	Soft ointment	T0208254000	1
Fagron	Soft ointment	T11-0777909	1
Fagron	Soft ointment	T11-0778000	1
Fagron	Soft ointment	T25-0864308	2
Fargon/ Phönix	Soft ointment	16A21-t05-029597	1
Fargon/ Phönix	Soft ointment	17A03-T01-039997	6
fargon/Sanacorp	Soft ointment	12353301	1
Fargon	Soft ointment	16G18-T02-035247	1
Fargon	Soft ointment	20C19T11077800	1
Fargron/ Noweda	Soft ointment	15A30-T02-018955	2
Fiebig 32.01.13 ek:4,84EUR	Soft ointment	5317100	1
Fiebig	Soft ointment	16245201	1
Fiebig	Soft ointment	16313401	1
Fiebig	Soft ointment	17197201	1
Fiebig	Soft ointment	17263201	2
Fiebig	Soft ointment	18162901	1
Fiebig	Soft ointment	18201301	2
Fiebig	Soft ointment	18201402	1
Fiebig	Soft ointment	18251101	3
Finze	Soft ointment	5215100	1
Frau Brinn-Holtz	Soft ointment	1577001	1
gehe 04.12.13	Soft ointment	13192601	1
Gehe am 04.02.2014	Soft ointment	13387402	1
Gehe am 25.02.14	Soft ointment	13375402	1
Gehe/04.12.14	Soft ointment	12353301	1
Gehe	Soft ointment	14202301	1
Gehe	Soft ointment	14375901	1
Gehe	Soft ointment	15204401	1
Gehe	Soft ointment	15376901	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Soft ointment	16083002	1
Gehe	Soft ointment	16083301	1
Gehe	Soft ointment	16146103	1
Gehe	Soft ointment	16146302	1
Gehe	Soft ointment	16146401	1
Gehe	Soft ointment	16245201	1
Gehe	Soft ointment	16245202	1
Gehe	Soft ointment	16313402	2
GEHE	Soft ointment	16313501	1
Gehe	Soft ointment	17076401	1
Gehe	Soft ointment	17076402	1
Gehe	Soft ointment	17076901	1
GEHE	Soft ointment	17197102	1
Gehe	Soft ointment	1726301	1
GEHE	Soft ointment	17263101	1
Gehe	Soft ointment	180020001	1
gehe	Soft ointment	18002302	1
Gehe	Soft ointment	18002302	1
GEHE	Soft ointment	18002501	1
GEHE	Soft ointment	18152901	2
Gehe	Soft ointment	18201402	1
Gehe	Soft ointment	19000426001	1
Gehe	Soft ointment	19015101	1
Gehe	Soft ointment	200002176002	1
Gehe	Soft ointment	20c19t11077800	1
Gehe	Soft ointment	21005256	1
Gehe	Soft ointment	305449	1
Gehe	Soft ointment	5375800	1
Geilenkirchen	Soft ointment	19162901	1
GUMO	Soft ointment	21002260002	1
Gutenberg-Apotheke	Soft ointment	5600500	3
H.Lamotte / Anzag	Soft ointment	5317100	1
H.Lamotte	Soft ointment	8004399002	1
Hedinger/Gehe	Soft ointment	18140501	1
Henra Lamotte	Soft ointment	5321600	1
Henry Lam./ Sanacorp	Soft ointment	5215100	1
Henry Lamotte Oils / Gehe	Soft ointment	8002320003	1
Henry Lamotte Oils GmbH...	Soft ointment	8002320003	2
Henry Lamotte Oils GmbH...	Soft ointment	8004399002	1
Henry Lamotte Oils Gmbh...	Soft ointment	5448300	1
Henry Lamotte Oils Gmbh...	Soft ointment	5496100	2
Henry Lamotte oils GmbH...	Soft ointment	5448300	1
Henry Lamotte oils GmbH...	Soft ointment	5691000	1
Henry Lamotte oils gmbh...	Soft ointment	8004399002	1
Henry Lamotte Oils GmbH...	Soft ointment	8004399002	1
Henry Lamotte Oils GmbH	Soft ointment	5317100	3
Henry Lamotte oils GmbH	Soft ointment	5321600	2
Henry Lamotte Oils GmbH	Soft ointment	5496100	1
Henry Lamotte Oils GMBH	Soft ointment	5496100	1
Henry Lamotte Oils GmbH	Soft ointment	5600500	2
Henry Lamotte Oils GmbH	Soft ointment	5691800	1
Henry Lamotte Oils GmbH	Soft ointment	5789000	2
Henry Lamotte Oils GmbH	Soft ointment	6001368015	1
HENRY LAMOTTE OILS GmbH	Soft ointment	6001368015	2
Henry Lamotte Oils GmbH	Soft ointment	8002320003	2
Henry lamotte Oils GmbH	Soft ointment	802875005	1
Henry Lamotte Oils/ Gehe	Soft ointment	61580	1
Henry Lamotte Oils	Soft ointment	5317100	1
Henry Lamotte Olis GmbH...	Soft ointment	5789000	3
Henry Lamotte Olis GmbH...	Soft ointment	6001368015	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte,Anzag	Soft ointment	5189900	2
Henry Lamotte,Phönix	Soft ointment	5067500	1
Henry Lamotte/ AHD	Soft ointment	8002320003	1
Henry Lamotte/Anzag	Soft ointment	5448300	1
Henry Lamotte/Anzag	Soft ointment	6001368001	1
Henry Lamotte/Anzag	Soft ointment	6001368015	1
Henry Lamotte/GEHE	Soft ointment	5215100	1
Henry Lamotte/GEHE	Soft ointment	5317100	1
Henry Lamotte/GEHE	Soft ointment	5375800	1
Henry Lamotte/Geilenkir...	Soft ointment	8002320003	1
Henry Lamotte/Sanacorp	Soft ointment	18251101	1
Henry Lamotte	Soft ointment	16245401	1
Henry Lamotte	Soft ointment	5067500	1
Henry Lamotte	Soft ointment	5317100	1
Henry Lamotte	Soft ointment	5789000	2
Henry Lamotte	Soft ointment	6001368001	1
Henry Lamotte	Soft ointment	6001368015	4
Henry Lamotte	Soft ointment	8002320004	1
Henry Lamotte	Soft ointment	8002875005	2
HenryLamotte/Phoenix	Soft ointment	5189900	1
Heyl/Noweda	Soft ointment	17197101	1
Ichthyol-Gesellschaft C...	Soft ointment	15059401	1
Ichtyol-Gesellschaft	Soft ointment	16245201	1
InfectoPharm/Noweda	Soft ointment	15377001	1
Kehr/Henry Lamotte	Soft ointment	8004399002	1
Kehr	Soft ointment	17076501	1
Kehr	Soft ointment	18002302	1
Kehr	Soft ointment	18140501	1
Kehr	Soft ointment	18162901	1
Klosterring	Soft ointment	18251101	2
Krieger am 16.08.2018	Soft ointment	18002401	1
Krieger/ Henry Lamotte	Soft ointment	8002320003	1
Lamotte / Anzag	Soft ointment	8004399003	1
Lamotte /Noweda	Soft ointment	8002875005	2
Lamotte GmbH	Soft ointment	8002320003	1
Lamotte/ Anzag	Soft ointment	5375800	1
Lamotte/ Anzag	Soft ointment	5496100	1
lamotte/AHD/23.03.20	Soft ointment	8005213003	1
Lamotte/AHD	Soft ointment	8007236008	1
Lamotte/Alliance	Soft ointment	5691000	1
Lamotte/Alliance	Soft ointment	8002875005	1
lamotte/anzag	Soft ointment	5265300	2
Lamotte/ANZAG	Soft ointment	8004399002	5
Lamotte/Anzag	Soft ointment	8005213006	1
Lamotte/Kehr	Soft ointment	5789000	1
Lamotte/Kehr	Soft ointment	5869200	1
Lamotte/Kehr	Soft ointment	6001368001	1
Lamotte/Kehr	Soft ointment	6001368015	2
Lamotte/Kehr	Soft ointment	8002320004	1
lamotte/Kehr	Soft ointment	8002875005	1
Lamotte/Krieger/20.05.2...	Soft ointment	5496100	1
Lamotte/Noweda	Soft ointment	8002320004	2
Lamotte/Noweda	Soft ointment	8002875006	5
Lamotte/Noweda	Soft ointment	80028755006	1
Lamotte/Noweda	Soft ointment	8004399003	4
Lamotte/Noweda	Soft ointment	8005213006	2
Lamotte/Phoenix	Soft ointment	18201201	1
Lamotte/Sana	Soft ointment	8004399002	1
Lamotte/Sanacorp	Soft ointment	8002875005	3
Lamotte/Sanacorp	Soft ointment	8005213003	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte	Soft ointment	5215100	1
Lamotte	Soft ointment	5375800	1
Lamotte	Soft ointment	5448300	1
Lamotte	Soft ointment	5789000	3
Lamotte	Soft ointment	8002875005	1
lamotte7anzag	Soft ointment	5294600	1
Midas	Soft ointment	17076401	1
Midas	Soft ointment	17197201	1
Midas	Soft ointment	18002001	1
Noveda	Soft ointment	19015001	1
Noweda 01.04.2022	Soft ointment	21002258001	1
Noweda	Soft ointment	11133001	1
Noweda	Soft ointment	11256701	1
Noweda	Soft ointment	14007601	1
Noweda	Soft ointment	15059301	1
Noweda	Soft ointment	15376901	2
Noweda	Soft ointment	15377001	2
Noweda	Soft ointment	16245202	1
Noweda	Soft ointment	16313402	1
Noweda	Soft ointment	17076401	1
Noweda	Soft ointment	17263201	1
Noweda	Soft ointment	17263202	2
Noweda	Soft ointment	18001901	1
Noweda	Soft ointment	18002040	1
Noweda	Soft ointment	18002101	1
Noweda	Soft ointment	18004473	1
Noweda	Soft ointment	18251202	1
Noweda	Soft ointment	19002114	1
Noweda	Soft ointment	19015102	1
Noweda	Soft ointment	19082302	4
Noweda	Soft ointment	19082401	1
Noweda	Soft ointment	19082501	1
Noweda	Soft ointment	192936001	1
Noweda	Soft ointment	19305101	2
Noweda	Soft ointment	20001409001	1
Noweda	Soft ointment	20001428	1
Noweda	Soft ointment	20002175002	1
Noweda	Soft ointment	20003574002	1
Noweda	Soft ointment	20I04-T02-082540	1
Noweda	Soft ointment	21000781001	1
Noweda	Soft ointment	60089901	1
Noweda	Soft ointment	8002875005	3
Pharmachem/Phoenix	Soft ointment	305451	1
Phoenix 08.08.2018 6,39EUR	Soft ointment	18000136	1
PHOENIX 10.03.2014	Soft ointment	14007302	1
Phoenix 19.06.2017 6,21EUR	Soft ointment	17A03-T01-039997	1
Phoenix/Cealo	Soft ointment	17263201	1
Phoenix	Soft ointment	12045701	1
Phoenix	Soft ointment	13192601	1
Phoenix	Soft ointment	13387403	1
Phoenix	Soft ointment	14007601	1
Phoenix	Soft ointment	16083002	1
Phoenix	Soft ointment	16313501	1
phoenix	Soft ointment	17076401	1
Phoenix	Soft ointment	17197102	1
Phoenix	Soft ointment	17263201	1
Phoenix	Soft ointment	19015202	2
Phoenix	Soft ointment	19082301	1
Phoenix	Soft ointment	19082401	2
Phoenix	Soft ointment	20001409001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Soft ointment	20003574002	1
Phoenix	Soft ointment	21000779001	1
Phoenix	Soft ointment	21000781001	2
phoenix	Soft ointment	297077	1
Phoenix	Soft ointment	3084	1
Phönix Gotha	Soft ointment	271425	1
Phönix Gotha	Soft ointment	278046	1
Phönix Gotha	Soft ointment	286010	1
Phönix Gotha	Soft ointment	291331	1
Phönix	Soft ointment	11256301	1
phönix	Soft ointment	12194701	1
Phönix	Soft ointment	13053801	1
Phönix	Soft ointment	13192901	1
Phönix	Soft ointment	14264301	1
phönix	Soft ointment	16083001	1
phönix	Soft ointment	16083002	1
Phönix	Soft ointment	16245201	1
Phönix	Soft ointment	17000370	1
phönix	Soft ointment	17076401	1
Phönix	Soft ointment	17076401	1
Phönix	Soft ointment	17197101	1
Phönix	Soft ointment	17197201	1
Phönix	Soft ointment	18002401	1
Phönix	Soft ointment	18201301	1
Phönix	Soft ointment	18201402	1
Phönix	Soft ointment	19015202	1
Phönix	Soft ointment	19191602	2
Phönix	Soft ointment	19305101	1
Phönix	Soft ointment	20001409001	2
Phönix	Soft ointment	20003575001	1
Phönix	Soft ointment	21003560001	1
Phönix	Soft ointment	3154	1
Px/Phoenix	Soft ointment	18002501	1
Sana 18.12.14 EK 5,39	Soft ointment	14202201	1
sanacoro	Soft ointment	15376801	1
Sanacorp 19.01.15 EK 5,39	Soft ointment	14202001	1
Sanacorp Noweda	Soft ointment	20001409001	1
Sanacorp	Soft ointment	100/AKD10	1
Sanacorp	Soft ointment	12194501	1
Sanacorp	Soft ointment	13192701	1
Sanacorp	Soft ointment	13192901	1
Sanacorp	Soft ointment	13375402	1
Sanacorp	Soft ointment	14080301	2
sanacorp	Soft ointment	14202301	1
Sanacorp	Soft ointment	14202302	1
Sanacorp	Soft ointment	14375801	2
Sanacorp	Soft ointment	15059301	1
Sanacorp	Soft ointment	15376801	1
Sanacorp	Soft ointment	16245201	1
Sanacorp	Soft ointment	16313501	1
Sanacorp	Soft ointment	17076401	3
Sanacorp	Soft ointment	17076501	1
Sanacorp	Soft ointment	17076801	1
Sanacorp	Soft ointment	17197102	1
Sanacorp	Soft ointment	17263201	2
Sanacorp	Soft ointment	17H28-T03-047827	8
Sanacorp	Soft ointment	18002302	1
Sanacorp	Soft ointment	18002501	2
Sanacorp	Soft ointment	18152901	2
Sanacorp	Soft ointment	18162901	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Soft ointment	18163001	1
Sanacorp	Soft ointment	18201402	3
Sanacorp	Soft ointment	18251101	1
Sanacorp	Soft ointment	18251301	2
Sanacorp	Soft ointment	19015202	2
Sanacorp	Soft ointment	19082401	4
Sanacorp	Soft ointment	19191501	1
Sanacorp	Soft ointment	19191601	1
Sanacorp	Soft ointment	192936001	3
Sanacorp	Soft ointment	19305101	2
Sanacorp	Soft ointment	94/AKD1	1
Sanacorp	Soft ointment	96/AKD3	1
Sanacorp	Soft ointment	97/AKD4	1
SanacorpWE:28.01.2017 ...	Soft ointment	16245201	1
Spangropharm	Soft ointment	20001409001	1
THC Rezeptur-Set	Soft ointment	17076401	1
VDL	Soft ointment	14202301	1
Wolf-Apotheke	Soft ointment	16083101	1

- 292 152 spectra from 1324 *Apo-Ident* customers from a total of 52 474 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Soft ointment* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Soft ointment* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	430	0	68 069
Type B	0	1650	0	109 663
Type C	0	5207	99	292 152

The substance/substance group *Soft ointment* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.6047 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.6364 %)
Type C	100.0000 % (> 99.6875 %)	98.1342 % (> 98.0776 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Soft ointment* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Macrogols 300	43.33	–
Lanolin DAB	49.30	–
Macrogol ointment	54.88	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Soft ointment* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30896	31984	5.23	92.45
30924	31984	7.33	99.81
31452	31452	0.00	90.91
31984	31984	0.00	92.49
32097	32097	0.00	89.22
32871	32871	0.00	92.07
34687	31984	4.61	89.08
35342	35342	0.00	91.97
35343	35343	0.00	92.73

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Softisan® 378 / Wool fat**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30743-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Softisan® 378 / Wool fat; Adeps lanae; Softisan® 378; Wool fat

Special notes

When selecting the *Softisan® 378 / Wool fat* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Softisan® 378 / Wool fat	16	16	865

Second-stage model

For differentiation of the substance/substance group *Softisan® 378 / Wool fat* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Softisan® 378 / Wool fat*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Softisan® 378	13370104	31472	40	20131119
Caelo	Softisan® 378	14301114	32298	40	20141118
Fagron	Softisan® 378	12K27-N05	30887	60	20121204
Fagron	Softisan® 378	13D26-N12	31117	40	1407632
Fagron	Softisan® 378	15G20-B10-326361	32964	40	1704407
Fagron	Softisan® 378	20F25-F02-371909	35145	40	20200713
Caelo	Wool fat	12122403	30743	40	20120514
Caelo	Wool fat	14086904	31479	40	20140321
Caelo	Wool fat	15050902	31742	60	20150223
Caelo	Wool fat	15198802	31952	60	20150625
Euro OTC	Wool fat	1403023-01	31533	60	AR-14-FG-012696-01
Euro OTC	Wool fat	1502024-01	31743	60	AR-16-FG-003762-01
Euro OTC	Wool fat	1601040	31847	60	20160127*
Euro OTC	Wool fat	2201039	36044	40	20220209*
Henry Lamotte	Wool fat	5320900	30925	40	20120608
Henry Lamotte	Wool fat	8003158002	33939	40	20170628

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 760 spectra of 16 reference samples from the substance/substance group *Softisan® 378 / Wool fat*. These samples are listed above in the *calibration samples* section. The reference samples come from 16 different batches.

- 67 739 spectra from a total of 1397 batches from further 227 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Type B spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 730 spectra of 18 reference samples from the substance/substance group *Softisan® 378 / Wool fat*.
- Among them are spectra of independent samples from 16 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Softisan® 378	162686	33078	40
Caelo	Softisan® 378	191862005	35130	40
Caelo	Softisan® 378	21000299007	35816	50
Bombastus	Wool fat	21004702	36187	40
Caelo	Wool fat	152923	31998	40
Caelo	Wool fat	16221907	33111	40
Caelo	Wool fat	173075	34017	40
Euro OTC	Wool fat	1607001	32459	40
Euro OTC	Wool fat	1701051	33245	40
Euro OTC	Wool fat	1807008-01	34212	40
Euro OTC	Wool fat	1907027	34660	40
Euro OTC	Wool fat	2003065	34835	40
Euro OTC	Wool fat	2008027	35082	40
Euro OTC	Wool fat	2101040	35248	40
Euro OTC	Wool fat	2205030	36386	40
Euro OTC	Wool fat	2208006	36564	40
Caelo	Softisan® 378	14301114	32299	40
Caelo	Softisan® 378	162686	33101	40

- 110 583 spectra from a total of 2649 batches from further 349 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 7367 spectra from 1104 *Apo-Ident* customers from 884 batches from the substance/substance group *Softisan® 378 / Wool fat*.
- Among them are spectra of independent samples from 862 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Wool fat	17307506	1
11.05.20/AHD/Bionorica	Softisan® 378	132321	1
24.01.20/Gehe/Bionorica	Softisan® 378	130243	1
Aallianc. Healthc. /Bio...	Softisan® 378	113358	4
Aallianc. Healthc. /Bio...	Softisan® 378	9999113358	1
ACM	Wool fat	KNC1879J13	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
AEP	Wool fat	18314704	2
AHC	Wool fat	1000010937	1
AHC	Wool fat	1000012826	4
AHD 29.01.15 EK 7,67	Wool fat	14238006	1
AHD	Wool fat	14238002	2
AHD	Softisan® 378	17I07-B01-338745	1
AHD	Softisan® 378	17I07-B01-340337	1
AHD	Softisan® 378	17J06-B01-349162	1
AHD	Wool fat	18224303	1
AHD	Softisan® 378	18G30-B05-355402	1
AHD	Softisan® 378	18G-B05-358235	1
AHD	Softisan® 378	701203-0001	1
AHD;15.12.14;4,82EUR	Wool fat	14238002	2
AHD;9.7.15; 4,78EUR	Wool fat	15050902	1
AHDE 19,05,.2015	Wool fat	14238002	1
Allianc. Health. / Bion...	Softisan® 378	109704	2
Allianc. Health. / Bion...	Softisan® 378	118060	3
Allianc. Health. / Bion...	Softisan® 378	130243	1
Allianc. Health. / THC ...	Softisan® 378	92456	1
Alliance Health.14.08.2...	Softisan® 378		1
Alliance Healthcare	Softisan® 378	103897	1
Alliance Healthcare	Softisan® 378	109704	2
Alliance Healthcare	Softisan® 378	113358	4
Alliance Healthcare	Wool fat	12224404	1
Alliance Healthcare	Wool fat	13039403	1
Alliance Healthcare	Softisan® 378	132321	2
Alliance Healthcare	Wool fat	17248106	1
Alliance Healthcare	Wool fat	17307507	1
Alliance Healthcare	Wool fat	19100504	1
Alliance Healthcare	Wool fat	19100506	1
Alliance healthcare	Wool fat	5528000	1
Alliance Healthcare	Wool fat	8004748003	2
Alliance/	Wool fat	1000010937	2
Alliance/Henry Lamotte	Wool fat	100001826	1
Alliance/Henry Lamotte	Wool fat	8004748002	1
Alliance/Lamotte 05.03...	Wool fat	8004134002	1
Alliance/Lamotte 22.10...	Wool fat	8004748003	1
Alliance	Softisan® 378	145521	1
Allianz Healthcare 22.0...	Wool fat	14238008	1
Alte Apotheke	Wool fat	16221904	1
Anzag , Stuttgart	Softisan® 378	118060	1
Anzag 25.02.13 ek: 14,44EUR	Wool fat	5264700	1
Anzag/13.02.2013	Wool fat	12122403	1
Anzag/Beiersdorf	Wool fat	15050902	1
Anzag	Wool fat	1000015311	2
Anzag	Wool fat	1000016943	1
Anzag	Wool fat	100015311	1
Anzag	Wool fat	15050903	1
Anzag	Wool fat	15050906	1
Anzag	Wool fat	15198804	1
Anzag	Wool fat	16003905	1
Anzag	Wool fat	16044302	1
Anzag	Wool fat	19100504	1
Anzag	Wool fat	5375400	2
Anzag	Wool fat	8002112003	1
Anzag	Wool fat	8002320010	1
Anzag	Wool fat	8002760003	1
Anzag	Wool fat	8003158003	3
Apo Ident/ Noweda	Wool fat	18139302	2
apomix	Wool fat	17248103	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Wool fat	311019	1
apomix	Softisan® 378	98561	7
Aponorm	Wool fat	17307502	1
Bergchemie	Wool fat	14086904	1
Berkel AHK	Wool fat	14086905	1
Bionorica / Alliance He...	Softisan® 378	109779	3
Bionorica / Alliance	Softisan® 378	103897	1
Bionorica / Alliance	Softisan® 378	107075	1
Bionorica / Alliance	Softisan® 378	113358	1
Bionorica / Alliance	Softisan® 378	132321	1
Bionorica / Alliance	Softisan® 378	133396	1
Bionorica / Fiebig	Softisan® 378	133396	3
Bionorica / Phönix	Softisan® 378	130243	1
Bionorica / Phönix	Softisan® 378	137208	1
Bionorica Ethics / Alli...	Softisan® 378	118060	3
Bionorica Ethics / Alli...	Softisan® 378	130243	1
Bionorica ethics / Kehr	Softisan® 378	118060	2
Bionorica ethics / VDL	Softisan® 378	107075	1
Bionorica ethics /AHD	Softisan® 378	113358	1
Bionorica ethics /Sanac...	Softisan® 378	130243	1
Bionorica Ethics/ Allia...	Softisan® 378	132321	1
Bionorica ethics/ Allia...	Softisan® 378	113358	1
Bionorica ethics/ Fiebig	Softisan® 378	103897	4
Bionorica Ethics/ Noweda	Softisan® 378	98561	1
Bionorica Ethics/ Ph	Softisan® 378	113358	4
Bionorica ethics/Allian...	Softisan® 378	118060	1
Bionorica ethics/Allian...	Wool fat	8004134015	1
Bionorica ethics/GEHE	Softisan® 378	113358	1
Bionorica ethics/Gehe	Softisan® 378	118060	1
Bionorica ethics/Gehe	Softisan® 378	130243	1
Bionorica ethics/Gehe	Softisan® 378	133396	1
Bionorica ethics/Gehe	Softisan® 378	138485	1
Bionorica ethics/Gehe	Softisan® 378	3115001	1
Bionorica ethics/Holder...	Softisan® 378	132321	1
Bionorica ethics/Noweda	Softisan® 378	107075	1
Bionorica Ethics/Noweda	Softisan® 378	130243	2
Bionorica ethics/Phoenix	Softisan® 378	130243	1
Bionorica Ethics/Phoenix	Softisan® 378	133396	1
Bionorica ethics/Phoenix	Softisan® 378	138485	4
Bionorica Ethics/Phönix	Softisan® 378	113358	2
Bionorica ethics/Phönix	Softisan® 378	118060	1
Bionorica ethics/Phönix	Softisan® 378	130243	2
Bionorica ethics/Phönix	Softisan® 378	133396	1
Bionorica Ethics/Sanacorp	Softisan® 378	113358	1
Bionorica ethics	Softisan® 378	1070075	1
Bionorica ethics	Softisan® 378	109779	1
Bionorica Ethics	Softisan® 378	109779	1
Bionorica ethics	Softisan® 378	113358	2
Bionorica ethics	Softisan® 378	118060	6
Bionorica Ethics	Softisan® 378	118060	2
Bionorica ethics	Softisan® 378	130243	6
Bionorica Ethics	Softisan® 378	130243	1
Bionorica ethics	Softisan® 378	132321	2
Bionorica ethics	Softisan® 378	133396	1
Bionorica ethics	Softisan® 378	138485	3
Bionorica Ethics	Softisan® 378	145521	2
Bionorica ethics	Softisan® 378	95076	1
Bionorica SE Neumarkt	Softisan® 378	132321	1
Bionorica SE Neumarkt	Softisan® 378	133396	1
Bionorica SE/Sanacorp	Softisan® 378	118060	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica SE	Softisan® 378	107075	1
Bionorica SE	Softisan® 378	113358	2
Bionorica SE	Softisan® 378	130243	1
Bionorica SE	Softisan® 378	1526729	1
Bionorica/ AHD	Softisan® 378	130243	2
Bionorica/ Alliance	Softisan® 378	132321	1
Bionorica/ Allianve	Softisan® 378	118060	2
Bionorica/ Noweda	Softisan® 378	113358	1
Bionorica/ Noweda	Softisan® 378	118060	1
Bionorica/ Sanacorp	Softisan® 378	118060	1
Bionorica/ Sanacorp	Softisan® 378	151571	1
Bionorica/AHD/10.05.19	Softisan® 378	118060	2
Bionorica/AHD	Softisan® 378	130243	1
Bionorica/Alliance Health	Softisan® 378	118060	1
Bionorica/Alliance Health	Softisan® 378	1300243	1
Bionorica/Alliance	Softisan® 378	109779	1
Bionorica/Alliance	Softisan® 378	118060	2
Bionorica/Anzag	Softisan® 378	118060	4
Bionorica/Anzag	Softisan® 378	130243	3
Bionorica/Anzag	Softisan® 378	132321	1
Bionorica/Anzag	Softisan® 378	133396	1
Bionorica/Anzag	Softisan® 378	138485	1
Bionorica/Direkt	Softisan® 378	113358	2
Bionorica/Ebert	Softisan® 378	113358	1
Bionorica/Fiebig	Softisan® 378	109778	1
Bionorica/Fiebig	Softisan® 378	109779	3
Bionorica/Fiebig	Softisan® 378	113358	2
Bionorica/Fiebig	Softisan® 378	130243	1
Bionorica/Fiebig	Softisan® 378	138485	3
Bionorica/Gehe	Softisan® 378	107075	1
Bionorica/Gehe	Softisan® 378	118060	1
Bionorica/Gehe	Softisan® 378	138485	1
Bionorica/Gehe	Softisan® 378	75850	3
Bionorica/Kehr	Softisan® 378	103897	1
Bionorica/Kehr	Softisan® 378	107075	1
Bionorica/Krieger	Softisan® 378	109779	1
Bionorica/Noweda	Softisan® 378	103897	2
Bionorica/Noweda	Softisan® 378	118060	1
Bionorica/Noweda	Wool fat	129878	1
Bionorica/Noweda	Softisan® 378	98561	1
Bionorica/Phoenix	Softisan® 378	107075	1
Bionorica/Phoenix	Softisan® 378	11806	1
Bionorica/Phoenix	Softisan® 378	118060	1
Bionorica/Phoenix	Softisan® 378	130243	1
Bionorica/Phoenix	Softisan® 378	133396	1
Bionorica/phoenix	Softisan® 378	318E-02911	1
Bionorica/Phönix	Softisan® 378	112894	1
Bionorica/Phönix	Softisan® 378	113358	1
Bionorica/Phönix	Softisan® 378	95076	1
Bionorica/Sanacorp	Softisan® 378	113358	1
Bionorica/Sanacorp	Softisan® 378	118060	1
bionorica/sanacorp	Softisan® 378	130243	2
Bionorica/Sanacorp	Softisan® 378	133396	1
Bionorica	Softisan® 378	107075	4
Bionorica	Softisan® 378	109778	4
Bionorica	Softisan® 378	109779	9
Bionorica	Softisan® 378	113358	20
Bionorica	Softisan® 378	118060	16
Bionorica	Softisan® 378	130243	10
Bionorica	Softisan® 378	132321	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica	Softisan® 378	133396	1
Bionorica	Softisan® 378	138485	4
Bionorica	Softisan® 378	156729	2
Bionorica	Softisan® 378	keinevorhanden	1
BionoricaEthics / GEHE	Softisan® 378	130243	1
BionoricaEthics / Phöni...	Softisan® 378	133396	1
Bionoricaethics/Anzag	Softisan® 378	133396	2
Bionoricaethics/Gehe	Softisan® 378	118060	1
Bionoroca/Noweda	Softisan® 378	138485	1
Bionoroca/Noweda	Softisan® 378	20F25-F02	2
Bionoroca/Noweda	Softisan® 378	F02-3733408	1
Bobastus/Noweda	Wool fat	279840	1
Bomastus direkt	Wool fat	60081303	1
Bombastos	Wool fat	305553	1
Bombastus	Wool fat	14147902	1
Bombastus	Wool fat	16221907	1
Bombastus	Wool fat	16345104	1
Bombastus	Wool fat	17000437	6
Bombastus	Wool fat	17002018	1
Bombastus	Wool fat	17002020	2
Bombastus	Wool fat	17248107	1
Bombastus	Wool fat	17307503	1
Bombastus	Softisan® 378	17816-806-331749	1
Bombastus	Softisan® 378	17B16-B06-331749	1
Bombastus	Wool fat	180003425	1
Bombastus	Wool fat	18002043	5
Bombastus	Wool fat	18002044	3
Bombastus	Wool fat	18003425	2
Bombastus	Wool fat	18003426	10
Bombastus	Wool fat	18005684	6
Bombastus	Wool fat	18029902	1
Bombastus	Wool fat	19002210	8
Bombastus	Wool fat	19005540	1
Bombastus	Wool fat	19005541	3
Bombastus	Wool fat	19006596	2
Bombastus	Wool fat	20001036	2
Bombastus	Wool fat	20002146	2
Bombastus	Wool fat	20003386	2
Bombastus	Wool fat	2003386	1
Bombastus	Wool fat	21002381	1
Bombastus	Wool fat	254683	1
Bombastus	Wool fat	260535	1
Bombastus	Wool fat	267377	2
Bombastus	Wool fat	268668	2
Bombastus	Wool fat	271419	2
Bombastus	Wool fat	272421	1
Bombastus	Wool fat	272422	1
Bombastus	Wool fat	273197	1
Bombastus	Wool fat	275701	3
Bombastus	Wool fat	275888	2
Bombastus	Wool fat	275889	3
Bombastus	Wool fat	277470	1
Bombastus	Wool fat	279840	1
Bombastus	Wool fat	280167	2
Bombastus	Wool fat	281849	1
Bombastus	Wool fat	281850	3
Bombastus	Wool fat	283526	3
Bombastus	Wool fat	286361	1
Bombastus	Wool fat	286362	3
Bombastus	Wool fat	288711	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool fat	288712	4
Bombastus	Wool fat	290878	1
Bombastus	Wool fat	290972	1
Bombastus	Wool fat	291336	2
Bombastus	Wool fat	291339	1
Bombastus	Wool fat	294438	3
Bombastus	Wool fat	295371	1
Bombastus	Wool fat	296321	4
Bombastus	Wool fat	297572	2
Bombastus	Wool fat	299568	1
Bombastus	Wool fat	299653	3
Bombastus	Wool fat	301843	1
Bombastus	Wool fat	301844	2
Bombastus	Softisan® 378	302709	1
Bombastus	Wool fat	303926	3
Bombastus	Wool fat	303927	1
Bombastus	Wool fat	303928	9
Bombastus	Wool fat	303929	1
Bombastus	Wool fat	305552	5
Bombastus	Wool fat	305553	8
Bombastus	Wool fat	308893	3
Bombastus	Wool fat	308894	3
Bombastus	Wool fat	311019	2
Bombastus	Wool fat	5763900	1
Bombastus	Wool fat	60081303	1
C.P.M Contract Pharma G...	Softisan® 378	113358	3
Caelo	Wool fat		5
Caelo	Wool fat	1000	1
Caelo	Softisan® 378	10310003	1
Caelo	Softisan® 378	10310008	1
Caelo	Softisan® 378	103897	8
Caelo	Softisan® 378	107075	2
Caelo	Softisan® 378	1081408	1
Caelo	Wool fat	1094641	2
Caelo	Wool fat	11031302	1
Caelo	Wool fat	11041312036703	1
Caelo	Wool fat	11097402	1
Caelo	Softisan® 378	11121304	1
Caelo	Wool fat	11203902	2
Caelo	Wool fat	11203903	1
Caelo	Wool fat	11261102	1
Caelo	Wool fat	11261103	1
Caelo	Wool fat	11261106	2
Caelo	Softisan® 378	113358	1
Caelo	Softisan® 378	11359302	1
Caelo	Wool fat	1167701	1
Caelo	Softisan® 378	118060	6
Caelo	Wool fat	12006702	1
Caelo	Wool fat	12015603	6
Caelo	Wool fat	12015604	3
Caelo	Wool fat	12015605	5
Caelo	Wool fat	12036702	4
Caelo	Wool fat	12036703	7
Caelo	Wool fat	12036704	6
Caelo	Softisan® 378	12051807	1
Caelo	Wool fat	1206702	1
Caelo	Wool fat	1206703	1
Caelo	Wool fat	12074501	2
Caelo	Wool fat	12074502	4
Caelo	Wool fat	12091301	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool fat	1212204	1
Caelo	Wool fat	12122403	10
Caelo	Wool fat	12122404	17
Caelo	Wool fat	12122406	7
Caelo	Wool fat	1213E-01056	1
Caelo	Wool fat	12224402	1
Caelo	Wool fat	12224403	4
Caelo	Wool fat	12224404	18
Caelo	Wool fat	12224405	15
Caelo	Wool fat	1231802	1
Caelo	Wool fat	12321801	2
Caelo	Wool fat	12321802	9
Caelo	Wool fat	12321803	12
Caelo	Wool fat	12321805	9
Caelo	Wool fat	12321807	2
Caelo	Wool fat	1267201	2
Caelo	Wool fat	13011801	1
Caelo	Softisan® 378	13012703	1
Caelo	Softisan® 378	13012704	1
Caelo	Softisan® 378	13012707	5
Caelo	Wool fat	1303403	1
Caelo	Wool fat	13039402	15
Caelo	Wool fat	13039403	27
Caelo	Wool fat	13039405	10
Caelo	Wool fat	13081206	1
Caelo	Wool fat	1309211056	1
Caelo	Wool fat	1309405	1
Caelo	Wool fat	13094902	2
Caelo	Wool fat	13094903	13
Caelo	Wool fat	13094904	1
Caelo	Wool fat	13094905	18
Caelo	Wool fat	1321305	1
Caelo	Wool fat	1321307	1
Caelo	Wool fat	1321308	1
Caelo	Wool fat	13213104	17
Caelo	Wool fat	13213105	8
Caelo	Wool fat	13213106	16
Caelo	Wool fat	13213107	19
Caelo	Wool fat	13213108	19
Caelo	Wool fat	132131104	1
Caelo	Wool fat	13303208	1
Caelo	Wool fat	13306203	12
Caelo	Wool fat	13306204	7
Caelo	Wool fat	13306205	8
Caelo	Wool fat	13306206	21
Caelo	Wool fat	13306207	17
Caelo	Wool fat	13306208	15
Caelo	Wool fat	133062707	1
Caelo	Wool fat	1336205	1
Caelo	Softisan® 378	13370102	2
Caelo	Softisan® 378	13370104	3
Caelo	Softisan® 378	13370112	1
Caelo	Wool fat	13389202	1
Caelo	Wool fat	13398201	15
Caelo	Wool fat	13398202	8
Caelo	Wool fat	13398291	1
Caelo	Softisan® 378	13H22-N01	1
Caelo	Wool fat	14022014A	1
Caelo	Wool fat	140713c	1
Caelo	Wool fat	14086902	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool fat	14086903	19
Caelo	Wool fat	14086904	13
Caelo	Wool fat	14086905	18
Caelo	Wool fat	14086906	21
Caelo	Wool fat	14086907	8
Caelo	Softisan® 378	14101712	1
Caelo	Softisan® 378	14111312	1
Caelo	Wool fat	14111402	1
Caelo	Wool fat	14121204	1
Caelo	Wool fat	14147901	14
Caelo	Wool fat	14147902	22
Caelo	Wool fat	14147903	20
Caelo	Wool fat	14147905	1
Caelo	Wool fat	1423006	1
Caelo	Wool fat	14238001	2
Caelo	Wool fat	14238002	11
Caelo	Wool fat	14238003	11
Caelo	Wool fat	14238004	15
Caelo	Wool fat	14238005	8
Caelo	Wool fat	14238006	17
Caelo	Wool fat	14238007	8
Caelo	Wool fat	14238008	23
Caelo	Wool fat	14238009	19
Caelo	Wool fat	14238010	6
Caelo	Wool fat	142383	1
Caelo	Softisan® 378	14301103	2
Caelo	Softisan® 378	14301104	2
Caelo	Softisan® 378	14301112	1
Caelo	Softisan® 378	14301113	1
Caelo	Wool fat	14304501	24
Caelo	Wool fat	14304502	17
Caelo	Wool fat	14304504	8
Caelo	Wool fat	1434502	1
Caelo	Softisan® 378	14F11B04	1
Caelo	Wool fat	15031401	1
Caelo	Wool fat	15041306	1
Caelo	Wool fat	1505090	1
Caelo	Wool fat	15050902	11
Caelo	Wool fat	15050903	17
Caelo	Wool fat	15050904	16
Caelo	Wool fat	15050906	18
Caelo	Wool fat	1505906	1
Caelo	Wool fat	15071705	1
Caelo	Wool fat	151458402	1
Caelo	Wool fat	15158401	31
Caelo	Wool fat	15158402	50
Caelo	Wool fat	15158404	1
Caelo	Wool fat	15158405	26
Caelo	Wool fat	1518401	1
Caelo	Wool fat	1518405	2
Caelo	Wool fat	15198802	24
Caelo	Wool fat	15198803	27
Caelo	Wool fat	15198804	22
Caelo	Wool fat	15292309	5
Caelo	Wool fat	15292311	5
Caelo	Wool fat	15292313	1
Caelo	Wool fat	15292316	20
Caelo	Wool fat	15421401	1
Caelo	Softisan® 378	15G20-B10-310231	1
Caelo	Softisan® 378	15G20-B10-311893	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Softisan® 378	15G20-B10-316518	2
Caelo	Softisan® 378	15G20B10320309	1
Caelo	Softisan® 378	15gb10326361	1
Caelo	Wool fat	160003901	1
Caelo	Wool fat	16003901	38
Caelo	Wool fat	16003902	40
Caelo	Wool fat	16003905	22
Caelo	Softisan® 378	16010402	2
Caelo	Softisan® 378	16010408	1
Caelo	Softisan® 378	16010417	1
Caelo	Softisan® 378	16021507	1
Caelo	Wool fat	1603211056	1
Caelo	Wool fat	1604303	1
Caelo	Wool fat	16044302	64
Caelo	Wool fat	16044303	33
Caelo	Wool fat	16044304	1
Caelo	Wool fat	16044306	9
Caelo	Wool fat	16051701	1
Caelo	Wool fat	16102013D	1
Caelo	Wool fat	16121308	1
Caelo	Wool fat	1613001	1
Caelo	Wool fat	1613006	1
Caelo	Wool fat	161630	1
Caelo	Wool fat	16163001	30
Caelo	Wool fat	16163002	26
Caelo	Wool fat	16163005	1
Caelo	Wool fat	16163006	33
Caelo	Wool fat	16221902	28
Caelo	Wool fat	16221903	28
Caelo	Wool fat	16221904	46
Caelo	Wool fat	16221905	16
Caelo	Wool fat	16221906	16
Caelo	Wool fat	16221907	68
Caelo	Wool fat	16221907/1160117	1
Caelo	Wool fat	16267201	64
Caelo	Wool fat	16267203	2
Caelo	Wool fat	16267204	16
Caelo	Softisan® 378	16268605	2
Caelo	Softisan® 378	16268606	3
Caelo	Softisan® 378	16268611	4
Caelo	Wool fat	16328201	1
Caelo	Wool fat	16345104	97
Caelo	Wool fat	163451045377	1
Caelo	Wool fat	16345106	13
Caelo	Wool fat	16345107	24
Caelo	Wool fat	16345108	1
Caelo	Wool fat	164(17307505)	1
Caelo	Wool fat	165(17307505)	1
Caelo	Wool fat	166(18029903)	1
Caelo	Wool fat	167(18139302)	1
Caelo	Wool fat	168(18224304)	1
Caelo	Wool fat	169(18314702)	1
Caelo	Softisan® 378	17/06-B01-350967	1
Caelo	Wool fat	170(18314702)	1
Caelo	Wool fat	17000437	1
Caelo	Wool fat	1701051-01	1
Caelo	Wool fat	17037503	1
Caelo	Wool fat	17111802	1
Caelo	Wool fat	17129301	1
Caelo	Wool fat	1713	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool fat	171339301	2
Caelo	Wool fat	1713901	2
Caelo	Wool fat	1713903	2
Caelo	Wool fat	17139301	59
Caelo	Wool fat	17139301-20171106Ma4	1
Caelo	Wool fat	17139302	14
Caelo	Wool fat	17139303	61
Caelo	Wool fat	1713931	1
Caelo	Wool fat	1716701	1
Caelo	Wool fat	171677001	1
Caelo	Wool fat	17167701	31
Caelo	Wool fat	17167702	13
Caelo	Wool fat	17167704	22
Caelo	Wool fat	171677045622	1
Caelo	Softisan® 378	17247103	1
Caelo	Softisan® 378	17247107	2
Caelo	Softisan® 378	17247109	2
Caelo	Softisan® 378	17247112	1
Caelo	Softisan® 378	17247114	1
Caelo	Wool fat	17248102	1
Caelo	Wool fat	17248103	72
Caelo	Wool fat	17248104	41
Caelo	Wool fat	17248105	21
Caelo	Wool fat	17248106	11
Caelo	Wool fat	17248107	30
Caelo	Wool fat	17248109	1
Caelo	Wool fat	172488107	1
Caelo	Wool fat	17278103	1
Caelo	Wool fat	17284103	1
Caelo	Wool fat	173057506	1
Caelo	Wool fat	1730750	1
Caelo	Wool fat	17307501	18
Caelo	Wool fat	17307502	31
Caelo	Wool fat	173075025782	1
Caelo	Wool fat	17307503	33
Caelo	Wool fat	17307505	20
Caelo	Wool fat	17307506	58
Caelo	Wool fat	17307507	71
Caelo	Wool fat	17307508	32
Caelo	Wool fat	1730757	1
Caelo	Wool fat	17307902	1
Caelo	Wool fat	17307906	1
Caelo	Wool fat	1739301	2
Caelo	Wool fat	17428107	1
Caelo	Wool fat	175(20000968007)	1
Caelo	Wool fat	176(20001836006)	1
Caelo	Wool fat	1767704	1
Caelo	Wool fat	177(20003738005)	1
Caelo	Softisan® 378	17I07-B01	1
Caelo	Softisan® 378	17I07-B01-340337	1
Caelo	Softisan® 378	17J06-B01-348073	1
Caelo	Softisan® 378	17J06-B01-349162	1
Caelo	Wool fat	180029902	1
Caelo	Wool fat	18003426	1
Caelo	Softisan® 378	18011302	1
Caelo	Wool fat	18021502	1
Caelo	Wool fat	18029901	11
Caelo	Wool fat	18029902	34
Caelo	Wool fat	18029903	3
Caelo	Wool fat	18029905	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool fat	18029908	1
Caelo	Wool fat	18041503	1
Caelo	Wool fat	18049003	1
Caelo	Softisan® 378	18062005	1
Caelo	Wool fat	180808184	1
Caelo	Wool fat	181139305	1
Caelo	Wool fat	18131302	1
Caelo	Wool fat	18133902	1
Caelo	Wool fat	18139202	1
Caelo	Wool fat	181393007	1
Caelo	Wool fat	18139302	36
Caelo	Wool fat	18139303	25
Caelo	Wool fat	18139304	29
Caelo	Wool fat	18139305	39
Caelo	Wool fat	18139306	33
Caelo	Wool fat	18139306-W20181115Ma	1
Caelo	Wool fat	18139307	30
Caelo	Wool fat	18139308	38
Caelo	Softisan® 378	18146401	13
Caelo	Softisan® 378	18146404	1
Caelo	Softisan® 378	18146406	4
Caelo	Softisan® 378	18146408	4
Caelo	Softisan® 378	18146409	9
Caelo	Wool fat	18168701	1
Caelo	Softisan® 378	18179716	1
Caelo	Wool fat	18224204	1
Caelo	Wool fat	182243006	1
Caelo	Wool fat	18224301	40
Caelo	Wool fat	18224302	75
Caelo	Wool fat	18224304	25
Caelo	Wool fat	18224305	69
Caelo	Wool fat	18224306	18
Caelo	Wool fat	18262601	1
Caelo	Wool fat	18314702	13
Caelo	Wool fat	18314703	29
Caelo	Wool fat	18314704	18
Caelo	Wool fat	19000845001	53
Caelo	Wool fat	19000845002	20
Caelo	Wool fat	19000845003	1
Caelo	Wool fat	19000845004	26
Caelo	Wool fat	19000845007	1
Caelo	Wool fat	1900084501	1
Caelo	Wool fat	190008545001	1
Caelo	Wool fat	190008845001	1
Caelo	Wool fat	19021801	1
Caelo	Softisan® 378	19021811	1
Caelo	Wool fat	19043401	13
Caelo	Wool fat	19043402	11
Caelo	Wool fat	19043405	27
Caelo	Wool fat	190550306	1
Caelo	Softisan® 378	190556106	1
Caelo	Softisan® 378	190560102	1
Caelo	Softisan® 378	19056102	18
Caelo	Softisan® 378	19056106	20
Caelo	Softisan® 378	19056108	5
Caelo	Softisan® 378	19056196	1
Caelo	Wool fat	191005004	1
Caelo	Wool fat	19100501	1
Caelo	Wool fat	19100502	60
Caelo	Wool fat	19100504	67

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool fat	19100504P-190923-2	1
Caelo	Wool fat	19100504P-191004-4	1
Caelo	Wool fat	19100504P-191022-3	1
Caelo	Wool fat	19100505	27
Caelo	Wool fat	19100506	45
Caelo	Wool fat	19100506P-191227-2	1
Caelo	Wool fat	19100507	21
Caelo	Wool fat	19100508	9
Caelo	Wool fat	19139305	1
Caelo	Wool fat	1914M1056	1
Caelo	Wool fat	19165701P-200319-6	1
Caelo	Wool fat	1917460	1
Caelo	Wool fat	191746005	1
Caelo	Wool fat	19174601	1
Caelo	Wool fat	19174603	16
Caelo	Wool fat	19174604	35
Caelo	Wool fat	19174605	54
Caelo	Wool fat	191774605	1
Caelo	Softisan® 378	191862002	18
Caelo	Softisan® 378	191862003	1
Caelo	Softisan® 378	191862005	14
Caelo	Softisan® 378	191862007	1
Caelo	Softisan® 378	1918622005	1
Caelo	Softisan® 378	1918862002	1
Caelo	Wool fat	192611001	1
Caelo	Wool fat	192611002	2
Caelo	Wool fat	192611003	28
Caelo	Wool fat	192611004	46
Caelo	Wool fat	192611004P-200507-5	1
Caelo	Wool fat	192611005	50
Caelo	Wool fat	19261105	2
Caelo	Wool fat	200001316003	1
Caelo	Wool fat	200001836004	1
Caelo	Wool fat	20000968001	49
Caelo	Wool fat	20000968002	14
Caelo	Wool fat	20000968004	22
Caelo	Wool fat	20000968006	1
Caelo	Wool fat	20000968007	21
Caelo	Wool fat	200018360002	1
Caelo	Wool fat	200018360004	1
Caelo	Wool fat	20001836001	22
Caelo	Wool fat	20001836002	30
Caelo	Wool fat	20001836004	34
Caelo	Wool fat	20001836005	25
Caelo	Wool fat	20001836006	14
Caelo	Softisan® 378	20001844001	9
Caelo	Softisan® 378	20001844003	19
Caelo	Softisan® 378	20001844006	8
Caelo	Wool fat	20002793001	16
Caelo	Wool fat	20002793002	10
Caelo	Wool fat	20002793003	4
Caelo	Wool fat	20003438002	1
Caelo	Wool fat	20003738002	27
Caelo	Wool fat	20003738004	11
Caelo	Wool fat	20003738005	11
Caelo	Wool fat	20003738006	29
Caelo	Wool fat	20003738007	26
Caelo	Wool fat	20003738008	6
Caelo	Wool fat	20003738009	1
Caelo	Wool fat	2000378002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool fat	2000378006	1
Caelo	Wool fat	2001836004	2
Caelo	Wool fat	2002793002	1
Caelo	Wool fat	2003738006	1
Caelo	Softisan® 378	20101804	1
Caelo	Wool fat	20160727Ma6	1
Caelo	Wool fat	2061509	1
Caelo	Softisan® 378	209602	1
Caelo	Softisan® 378	21000299002	16
Caelo	Softisan® 378	21000299007	4
Caelo	Softisan® 378	21000299010	1
Caelo	Softisan® 378	21000299013	1
Caelo	Softisan® 378	2100029910	1
Caelo	Wool fat	2100075004	1
Caelo	Wool fat	21000775004	1
Caelo	Wool fat	21000775005	2
Caelo	Wool fat	21000775007	6
Caelo	Wool fat	21000775008	16
Caelo	Wool fat	21000775009	17
Caelo	Wool fat	2100077503	1
Caelo	Wool fat	21002094002	6
Caelo	Wool fat	21002094004	1
Caelo	Wool fat	21002094005	1
Caelo	Wool fat	2100209404	1
Caelo	Wool fat	210031360005	1
Caelo	Wool fat	21003136002	1
Caelo	Wool fat	21003136005	2
Caelo	Wool fat	21003136006	2
Caelo	Wool fat	21003136009	2
Caelo	Softisan® 378	21031310	1
Caelo	Wool fat	21071502	1
Caelo	Softisan® 378	21071707	1
Caelo	Wool fat	210906(20003738008)	1
Caelo	Wool fat	2113U01056	1
Caelo	Softisan® 378	21C19-F03	1
Caelo	Wool fat	220301(21000775007)	1
Caelo	Softisan® 378	22062015B	1
Caelo	Wool fat	220622(21003136002)	1
Caelo	Wool fat	22091801	1
Caelo	Wool fat	23012015A	1
Caelo	Wool fat	23021709	1
Caelo	Wool fat	23041801	1
Caelo	Softisan® 378	23051811	1
Caelo	Wool fat	23091704	1
Caelo	Wool fat	23101703	1
Caelo	Wool fat	24051801	1
Caelo	Wool fat	24422111203903	1
Caelo	Softisan® 378	25041804	1
Caelo	Wool fat	2516A-01056	1
Caelo	Wool fat	26061205	1
Caelo	Wool fat	27091204	1
Caelo	Softisan® 378	27091306	1
Caelo	Wool fat	27211926115	1
Caelo	Wool fat	2751	1
Caelo	Softisan® 378	28031401	1
Caelo	Wool fat	2814U-01056	1
Caelo	Wool fat	2818	1
Caelo	Wool fat	286362	1
Caelo	Wool fat	29041407	1
Caelo	Wool fat	29061802	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool fat	291339	1
Caelo	Wool fat	294643	1
Caelo	Softisan® 378	3/2017	1
Caelo	Wool fat	30101311	1
Caelo	Softisan® 378	3071201	1
Caelo	Wool fat	308893	1
Caelo	Wool fat	31011302	1
Caelo	Wool fat	311201702	1
Caelo	Wool fat	3112U-01056	1
Caelo	Wool fat	316E-01056	1
Caelo	Wool fat	3246	1
Caelo	Wool fat	3320	1
Caelo	Wool fat	3513U-01056	1
Caelo	Wool fat	3x13398202	1
Caelo	Wool fat	4013Q1056	1
Caelo	Wool fat	4032015A	1
Caelo	Softisan® 378	4041501	1
Caelo	Wool fat	4061402	1
Caelo	Wool fat	4101404	1
Caelo	Wool fat	412062-1-P	1
Caelo	Wool fat	419A-01056	1
Caelo	Wool fat	46/AKD3	1
Caelo	Wool fat	4817A-01056	1
Caelo	Wool fat	5052014A	1
Caelo	Wool fat	5081406	1
Caelo	Wool fat	51198803	1
Caelo	Wool fat	5163200	1
Caelo	Wool fat	5211E-01056	1
Caelo	Wool fat	5212Q-01056	1
Caelo	Wool fat	5253400	1
Caelo	Wool fat	5264700	3
Caelo	Wool fat	5375400	2
Caelo	Wool fat	5520800	4
Caelo	Wool fat	5528000	1
Caelo	Wool fat	5650500	1
Caelo	Wool fat	5690800	1
Caelo	Wool fat	5727500	1
Caelo	Wool fat	5763900	2
Caelo	Softisan® 378	57657	1
Caelo	Wool fat	5860600	1
Caelo	Wool fat	6001861002	2
Caelo	Wool fat	6102014C	1
Caelo	Softisan® 378	610789	1
Caelo	Wool fat	6111212	1
Caelo	Wool fat	612211056	1
Caelo	Wool fat	6221903	1
Caelo	Wool fat	7051401	1
Caelo	Softisan® 378	73059	1
Caelo	Wool fat	75798803	1
Caelo	Wool fat	8002112001	1
Caelo	Wool fat	8002144001	4
Caelo	Wool fat	8002760001	2
Caelo	Wool fat	8002760002	6
Caelo	Wool fat	8003158001	2
Caelo	Wool fat	8003158002	2
Caelo	Wool fat	8003158003	5
Caelo	Wool fat	8004134001	1
Caelo	Wool fat	8004134002	1
Caelo	Wool fat	8004134003	7
Caelo	Wool fat	8004134015	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool fat	8004748002	3
Caelo	Wool fat	8011509	1
Caelo	Wool fat	8061304	1
Caelo	Wool fat	82325376	1
Caelo	Wool fat	83147041	1
Caelo	Wool fat	90008450021	1
Caelo	Wool fat	9011901	1
Caelo	Wool fat	9041706	1
Caelo	Softisan® 378	98561	1
Caelo	Wool fat	AKD17	1
Caelo	Wool fat	CHB19100506	1
Caesa / Alliance Health...	Wool fat	18139305	1
Caesa / Alliance Health...	Wool fat	20003738007	1
Caesar & Lorenz GmbH	Wool fat	19100504	1
Caesar & Loretz GmbH / ...	Wool fat	20003738004	1
Caesar & Loretz GmbH / ...	Wool fat	19000845001	1
Caesar & Loretz GmbH / ...	Wool fat	17139303	1
Caesar & Loretz GmbH / ...	Wool fat	18139306	1
Caesar & Loretz GmbH / ...	Wool fat	192611003	1
Caesar & Loretz GmbH / ...	Wool fat	20000968001	2
Caesar & Loretz GmbH / ...	Wool fat	19100504	1
Caesar & Loretz GmbH / ...	Wool fat	18224301	1
Caesar & Loretz GmbH Hi...	Wool fat	16163001	1
Caesar & Loretz GmbH, 4...	Wool fat	12036703	1
Caesar & Loretz GmbH, 4...	Wool fat	13039402	1
Caesar & Loretz GmbH, P...	Wool fat	20001836002	1
Caesar & Loretz GmbH/ A...	Wool fat	18224306	1
Caesar & Loretz GmbH/ A...	Wool fat	20000968001	1
Caesar & Loretz GmbH/ G...	Wool fat	19000845004	1
Caesar & Loretz GmbH/ G...	Softisan® 378	191862005	1
Caesar & Loretz GmbH/ G...	Wool fat	20001836001	1
Caesar & Loretz GmbH/ N...	Wool fat	192611003	1
Caesar & Loretz GmbH/ P...	Wool fat	19000845001	1
Caesar & Loretz GmbH/ P...	Wool fat	21000775009	1
Caesar & Loretz GmbH/ P...	Wool fat	21002094005	1
Caesar & Loretz GmbH/AEP	Wool fat	20002793001	1
Caesar & Loretz GmbH/AHD	Wool fat	18224305	1
Caesar & Loretz GmbH/An...	Wool fat	19043405	1
Caesar & Loretz GmbH/Fi...	Wool fat	18314704	1
Caesar & Loretz GmbH/Fi...	Wool fat	20001836005	1
Caesar & Loretz GmbH/Fi...	Wool fat	20002793002	1
Caesar & Loretz GmbH/Fi...	Wool fat	20003738007	1
Caesar & Loretz GmbH/Gehe	Wool fat	18224305	1
Caesar & Loretz GmbH/Gehe	Wool fat	18224306	1
Caesar & Loretz GmbH/Gehe	Wool fat	19000845001	2
Caesar & Loretz GmbH/Gehe	Wool fat	19000845002	1
Caesar & Loretz GmbH/Gehe	Wool fat	19043405	1
Caesar & Loretz GmbH/Gehe	Softisan® 378	19056106	1
Caesar & Loretz GmbH/Gehe	Wool fat	19100502	2
Caesar & Loretz GmbH/Gehe	Wool fat	19174604	2
Caesar & Loretz GmbH/Gehe	Wool fat	19174605	1
Caesar & Loretz GmbH/Gehe	Softisan® 378	191862002	1
Caesar & Loretz GmbH/Gehe	Softisan® 378	191862005	1
Caesar & Loretz GmbH/Gehe	Wool fat	192611004	1
Caesar & Loretz GmbH/GEHE	Wool fat	20001836004	2
Caesar & Loretz GmbH/Gehe	Wool fat	20001836006	1
Caesar & Loretz GmbH/Gehe	Softisan® 378	20001844006	2
Caesar & Loretz GmbH/Gehe	Wool fat	20002793002	1
Caesar & Loretz GmbH/GEHE	Wool fat	20003738006	1
Caesar & Loretz GmbH/Gehe	Wool fat	20003738007	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/GEHE	Softisan® 378	21000299010	1
Caesar & Loretz GmbH/Gehe	Wool fat	21000775003	1
Caesar & Loretz GmbH/Ge…	Wool fat	18314704	1
Caesar & Loretz GmbH/Ge…	Wool fat	19100507	1
Caesar & Loretz GmbH/Gö…	Wool fat	19100506	1
Caesar & Loretz GmbH/Je…	Wool fat	1000012825	1
Caesar & Loretz GmbH/Je…	Wool fat	18139304	1
Caesar & Loretz GmbH/Je…	Wool fat	19000845004	1
Caesar & Loretz GmbH/Je…	Wool fat	19174604	1
Caesar & Loretz GmbH/Je…	Wool fat	192611004	3
Caesar & Loretz GmbH/Je…	Wool fat	20002793002	2
Caesar & Loretz GmbH/Je…	Wool fat	20003738002	1
Caesar & Loretz GmbH/Je…	Wool fat	20003738006	1
Caesar & Loretz GmbH/Kr…	Wool fat	19100502	1
Caesar & Loretz GmbH/Kr…	Wool fat	19100507	1
Caesar & Loretz GmbH/Mi…	Wool fat	19100504	1
Caesar & Loretz GmbH/No…	Wool fat	18224306	1
Caesar & Loretz GmbH/No…	Wool fat	18314704	1
Caesar & Loretz GmbH/No…	Wool fat	19000845001	1
Caesar & Loretz GmbH/No…	Wool fat	19000845004	1
Caesar & Loretz GmbH/No…	Wool fat	19100502	2
Caesar & Loretz GmbH/No…	Wool fat	19100506	2
Caesar & Loretz GmbH/No…	Wool fat	19100507	1
Caesar & Loretz GmbH/No…	Wool fat	19174603	1
Caesar & Loretz GmbH/No…	Softisan® 378	1918620002	2
Caesar & Loretz GmbH/No…	Softisan® 378	191862002	2
Caesar & Loretz GmbH/No…	Wool fat	20000968001	1
Caesar & Loretz GmbH/No…	Wool fat	20001836002	2
Caesar & Loretz GmbH/No…	Wool fat	20002793001	1
Caesar & Loretz GmbH/No…	Wool fat	20003738002	1
Caesar & Loretz GmbH/Ph…	Wool fat	19100508	1
Caesar & Loretz GmbH/Ph…	Wool fat	20000968007	1
Caesar & Loretz GmbH/Ph…	Wool fat	20000968002	1
Caesar & Loretz GmbH/Ph…	Wool fat	20000968007	1
Caesar & Loretz GmbH/Ph…	Wool fat	20000968002	1
Caesar & Loretz GmbH/Ph…	Wool fat	21002094004	1
Caesar & Loretz GmbH/Ph…	Wool fat	20000968004	2
Caesar & Loretz GmbH/Ph…	Wool fat	20001836002	1
Caesar & Loretz GmbH/Ph…	Wool fat	20001836005	2
Caesar & Loretz GmbH/Ph…	Wool fat	20003738002	1
Caesar & Loretz GmbH/Ph…	Wool fat	20003738007	2
Caesar & Loretz GmbH/Sana	Wool fat	1900084501	1
Caesar & Loretz GmbH/Sa…	Wool fat	19174603	1
Caesar & Loretz GmbH/Sa…	Wool fat	20000968002	1
Caesar & Loretz GmbH/Sa…	Wool fat	20000968007	1
Caesar & Loretz GmbH/Sa…	Wool fat	20001836004	2
Caesar & Loretz GmbH/Sa…	Wool fat	20002793003	1
Caesar & Loretz GmbH/Sa…	Softisan® 378	21000299010	1
Caesar & Loretz GmbH	Wool fat	1000010939	3
Caesar & Loretz GmbH	Wool fat	12036703	1
Caesar & Loretz GmbH	Wool fat	12122403	1
Caesar & Loretz GmbH	Wool fat	13213104	1
Caesar & Loretz GmbH	Wool fat	13306205	1
Caesar & Loretz GmbH	Wool fat	14086903	1
Caesar & Loretz GmbH	Wool fat	14238002	1
Caesar & Loretz GmbH	Wool fat	14304501	1
Caesar & Loretz GmbH	Wool fat	15050902	1
Caesar & Loretz GmbH	Wool fat	15050903	1
Caesar & Loretz GmbH	Wool fat	16345106	1
Caesar & Loretz GmbH	Wool fat	17139301	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Wool fat	17248103	1
Caesar & Loretz GmbH	Wool fat	17248105	1
Caesar & Loretz GmbH	Wool fat	17307502	1
Caesar & Loretz GmbH	Wool fat	17307507	1
Caesar & Loretz GmbH	Wool fat	18029902	2
Caesar & Loretz GmbH	Wool fat	18139302	1
Caesar & Loretz GmbH	Wool fat	18139303	1
Caesar & Loretz GmbH	Wool fat	18139304	1
Caesar & Loretz GmbH	Wool fat	18139305	4
Caesar & Loretz GmbH	Wool fat	18139308	1
Caesar & Loretz GmbH	Wool fat	18224301	3
Caesar & Loretz GmbH	Wool fat	18224302	10
Caesar & Loretz GmbH	Wool fat	18224304	4
Caesar & Loretz GmbH	Wool fat	18224305	16
Caesar & Loretz GmbH	Wool fat	18224306	2
Caesar & Loretz GmbH	Wool fat	18314702	7
Caesar & Loretz GmbH	Wool fat	18314703	12
Caesar & Loretz GmbH	Wool fat	18314704	8
Caesar & Loretz GmbH	Wool fat	19000845001	26
Caesar & Loretz GmbH	Wool fat	19000845002	5
Caesar & Loretz GmbH	Wool fat	19000845003	1
Caesar & Loretz GmbH	Wool fat	19000845004	2
Caesar & Loretz GmbH	Wool fat	19043401	7
Caesar & Loretz GmbH	Wool fat	19043402	3
Caesar & Loretz GmbH	Wool fat	19043405	6
Caesar & Loretz GmbH	Wool fat	19043406	2
Caesar & Loretz GmbH	Softisan® 378	19056102	2
Caesar & Loretz GmbH	Softisan® 378	19056106	4
Caesar & Loretz GmbH	Softisan® 378	19056108	5
Caesar & Loretz GmbH	Wool fat	19100501	1
Caesar & Loretz GmbH	Wool fat	19100502	2
Caesar & Loretz GmbH	Wool fat	19100504	16
Caesar & Loretz GmbH	Wool fat	19100505	20
Caesar & Loretz GmbH	Wool fat	19100506	19
Caesar & Loretz GmbH	Wool fat	19100507	3
Caesar & Loretz GmbH	Wool fat	19100508	6
Caesar & Loretz GmbH	Wool fat	19174603	9
Caesar & Loretz GmbH	Wool fat	19174604	3
Caesar & Loretz GmbH	Wool fat	19174605	19
Caesar & Loretz GmbH	Softisan® 378	191862002	1
Caesar & Loretz GmbH	Softisan® 378	191862005	6
Caesar & Loretz GmbH	Softisan® 378	191862007	1
Caesar & Loretz GmbH	Wool fat	192611002	1
Caesar & Loretz GmbH	Wool fat	192611003	5
Caesar & Loretz GmbH	Wool fat	192611004	4
Caesar & Loretz GmbH	Wool fat	192611005	11
Caesar & Loretz GmbH	Softisan® 378	19A30-B04	3
Caesar & Loretz GmbH	Wool fat	20000968001	11
Caesar & Loretz GmbH	Wool fat	20000968002	4
Caesar & Loretz GmbH	Wool fat	20000968004	4
Caesar & Loretz GmbH	Wool fat	20000968007	4
Caesar & Loretz GmbH	Wool fat	20001836001	9
Caesar & Loretz GmbH	Wool fat	20001836002	16
Caesar & Loretz GmbH	Wool fat	20001836004	13
Caesar & Loretz GmbH	Wool fat	20001836005	5
Caesar & Loretz GmbH	Wool fat	20001836006	6
Caesar & Loretz GmbH	Softisan® 378	20001844003	1
Caesar & Loretz GmbH	Softisan® 378	20001844006	8
Caesar & Loretz GmbH	Softisan® 378	20001844010	1
Caesar & Loretz GmbH	Wool fat	20002793001	12

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Wool fat	20002793002	3
Caesar & Loretz GmbH	Wool fat	20002793003	3
Caesar & Loretz GmbH	Wool fat	20003738002	13
Caesar & Loretz GmbH	Wool fat	20003738004	2
Caesar & Loretz GmbH	Wool fat	20003738005	2
Caesar & Loretz GmbH	Wool fat	20003738006	20
Caesar & Loretz GmbH	Wool fat	20003738007	5
Caesar & Loretz GmbH	Wool fat	20003738008	2
Caesar & Loretz GmbH	Softisan® 378	21000299001	1
Caesar & Loretz GmbH	Softisan® 378	21000299002	3
Caesar & Loretz GmbH	Softisan® 378	21000299007	2
Caesar & Loretz GmbH	Softisan® 378	21000299010	4
Caesar & Loretz GmbH	Softisan® 378	21000299011	1
Caesar & Loretz GmbH	Softisan® 378	21000299013	1
Caesar & Loretz GmbH	Softisan® 378	21000299014	1
Caesar & Loretz GmbH	Wool fat	21000775004	1
Caesar & Loretz GmbH	Wool fat	21000775005	1
Caesar & Loretz GmbH	Wool fat	21000775007	1
CAESAR & LORETZ GMBH	Wool fat	21000775007	3
Caesar & Loretz GmbH	Wool fat	21000775008	4
Caesar & Loretz GmbH	Wool fat	21000775009	10
Caesar & Loretz GmbH	Wool fat	21002094002	3
Caesar & Loretz GmbH	Wool fat	21003136002	1
Caesar & Loretz GmbH	Wool fat	21003136003	4
Caesar & Loretz GmbH	Wool fat	21003136005	5
Caesar & Loretz GmbH	Wool fat	21003136009	1
CAESAR & LORETZ GMBH	Softisan® 378	22000655003	1
Caesar & Loretz GmbH	Softisan® 378	F01-3758208	1
CAESAR & LORETZ GMBH	Softisan® 378	F01-3758208	1
Caesar & Loretz Hilden	Wool fat	18224305	1
Caesar & Loretz/AHD	Wool fat	19000845001	2
Caesar & Loretz/Geilenk...	Wool fat	20001836004	1
Caesar & Loretz/Geilenk...	Wool fat	20002793001	1
Caesar & Loretz/Noweda	Wool fat	16345104	1
Caesar & Loretz	Wool fat	16221903	1
Caesar & Loretz	Wool fat	17307502	1
Caesar & Loretz	Wool fat	18139306	1
Caesar & Loretz	Wool fat	20002793001	1
Caesar L / Sanacorp	Softisan® 378	19056102	1
Caesar und Loretz GmbH	Wool fat	17167701	1
Caesar und Loretz GmbH	Wool fat	17307507	1
Caesar&Lorenz	Wool fat	20003738006	1
Caesar&Loretz GmbH,25.0...	Wool fat	16267201	2
Caesar&Loretz GmbH/Anzag	Wool fat	13213105	1
Caesar&Loretz GmbH/Fiebig	Wool fat	16345104	1
Caesar&Loretz GmbH/Gehe	Wool fat	19100506	1
Caesar&Loretz GmbH	Wool fat	16003901	1
Caesar&loretz,AHC	Wool fat	14238002	1
Caesar&Loretz/Alliance	Wool fat	17307507	1
Caesar&Loretz/Noweda	Wool fat	15198802	1
Caesar&Loretz	Wool fat	15050903	1
Caesar&Loretz	Wool fat	15198802	1
caesar	Wool fat	14304501	1
caesar	Wool fat	16044302	1
Caeser und Loretz GmbH	Wool fat	18314704	1
Caleo/ Noweda	Wool fat	17307507	1
Caleo/ Noweda	Wool fat	18029902	1
Caleo	Wool fat	15050903	1
Cealo Phönix	Wool fat	20003738005	1
Cealo/ AHD	Wool fat	18314703	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Cealo/Gehe	Wool fat	17248104	2
Cealo/Gehe	Wool fat	17307506	1
Cealo/Gehe	Wool fat	18029902	1
Cealo/Sanacorp	Wool fat	16221905	2
Cealo/Sanacorp	Wool fat	20003738002	2
cealo	Wool fat	18224302	3
cesar&lorentz/Phönix	Wool fat	12321805	1
chaelo/gehe	Wool fat	17248103	1
Chiesi	Wool fat	17139301	1
Cordes	Wool fat	11203908	1
Delta Apotheke	Wool fat	18139306	2
Delta	Softisan® 378	17J06-B01-525706	2
E Plus	Wool fat	17002020	1
Eigenproduktion	Wool fat	16003901	1
EuRho/Sanacorp	Wool fat	8003158001	1
EuRho	Wool fat	15198803	1
EuRho	Wool fat	18139305	1
Euro OTC	Wool fat		1
Euro OTC	Wool fat	1000010938	2
Euro OTC	Wool fat	10829902	1
Euro OTC	Wool fat	1305037-01	1
Euro OTC	Wool fat	13398201	1
Euro OTC	Wool fat	1403023-01	1
Euro OTC	Wool fat	14147902	1
Euro OTC	Wool fat	14238007	1
Euro OTC	Wool fat	1502024-01	2
Euro OTC	Wool fat	16003905	1
Euro OTC	Wool fat	1601040-01	2
Euro OTC	Wool fat	1607001-01	1
Euro OTC	Wool fat	16221903	3
Euro OTC	Wool fat	16345104	1
Euro OTC	Wool fat	16345107	1
Euro OTC	Wool fat	17002019	1
Euro OTC	Wool fat	1701051-01	2
Euro OTC	Wool fat	1701051-02	1
Euro OTC	Wool fat	1709021-01	1
Euro OTC	Wool fat	17248103	1
Euro OTC	Wool fat	17248107	1
Euro OTC	Wool fat	17307501	1
Euro OTC	Wool fat	1807008-01	2
Euro OTC	Wool fat	18224306	1
Euro OTC	Wool fat	1907027	1
Euro OTC	Wool fat	1907027-01	4
Euro OTC	Wool fat	2003065-01	3
Euro OTC	Wool fat	2008027-01	1
Euro OTC	Wool fat	2010016-01	1
Euro OTC	Wool fat	301843	1
Euro OTC	Wool fat	8003158001	1
Euro OTC	Wool fat	8004748002	1
Euro/Phönix	Softisan® 378	103897	1
EuRoh/ Gehe	Wool fat	18224302	1
Europharm / Gehe	Wool fat	18029901	1
Fagro	Softisan® 378	19A30-B04	4
Fagro	Softisan® 378	19K04-F06-367115	1
Fagro	Softisan® 378	F02-3719009	1
Fagro	Softisan® 378	F06-3671106	2
Fagron	Softisan® 378	102940	1
Fagron	Softisan® 378	10A30-B04-362347	1
Fagron	Softisan® 378	11520	2
Fagron	Wool fat	11L07-T01	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Softisan® 378	12/24-N01	1
Fagron	Wool fat	12H31-T01	1
Fagron	Softisan® 378	12I24-N01	1
Fagron	Wool fat	12K07-T51-00357	1
Fagron	Softisan® 378	12K27-N05	1
Fagron	Wool fat	13094903	1
Fagron	Softisan® 378	138485	2
Fagron	Softisan® 378	13B11-N01	1
Fagron	Softisan® 378	13D26-N02	1
Fagron	Softisan® 378	13D26-N12	9
Fagron	Softisan® 378	13H22-N01	5
Fagron	Softisan® 378	13H22-N01	1
Fagron	Wool fat	14086906	1
Fagron	Wool fat	14304502	1
Fagron	Softisan® 378	145521	1
Fagron	Wool fat	14B14-T03	1
Fagron	Softisan® 378	14F11-B04	3
Fagron	Softisan® 378	14F11B04-296083	1
Fagron	Softisan® 378	14F11-B04-296083	3
Fagron	Softisan® 378	14F11-B04-299298	8
Fagron	Wool fat	15050904	1
Fagron	Wool fat	15158402	2
Fagron	Wool fat	15B27-T27-023866	1
Fagron	Softisan® 378	15G20-10-316518	1
Fagron	Softisan® 378	15G20-B10	2
Fagron	Softisan® 378	15G20-B10_316518	1
Fagron	Softisan® 378	15G20-B10-310231	1
Fagron	Softisan® 378	15G20-B10-311893	2
Fagron	Softisan® 378	15G20-B10-316518	2
Fagron	Softisan® 378	15G20-B10-320309	1
Fagron	Softisan® 378	15G20-B10-525116	3
Fagron	Softisan® 378	15G20-B10-525272	1
Fagron	Softisan® 378	15G20-B10-525379	2
Fagron	Softisan® 378	17/07-B01-340337	1
Fagron	Softisan® 378	170828	1
Fagron	Wool fat	17248106	1
Fagron	Softisan® 378	17816-806	1
Fagron	Softisan® 378	17B16-B06	1
Fagron	Softisan® 378	17B16-B06-331749	2
Fagron	Softisan® 378	17B16-B06-333147	1
Fagron	Softisan® 378	17B16-B06-334707	3
Fagron	Softisan® 378	17B16-B06-525441	3
Fagron	Softisan® 378	17F15-B05	1
Fagron	Softisan® 378	17F15-B05-336058	4
Fagron	Softisan® 378	17F-15-B05-336058	1
Fagron	Softisan® 378	17F15-B05-336059	2
Fagron	Softisan® 378	17F15-B05-525528	1
Fagron	Softisan® 378	17I07-B01-338745	4
Fagron	Softisan® 378	17I07-B01-340337	1
Fagron	Softisan® 378	17I07-B01-525611	5
Fagron	Wool fat	17I08-T03-051241	1
Fagron	Softisan® 378	17J06-B01	1
Fagron	Softisan® 378	17J06-B01_342646	1
Fagron	Softisan® 378	17J06-B01-342646	4
Fagron	Softisan® 378	17J06-B01-346209	7
Fagron	Softisan® 378	17J06-B01-348073	4
Fagron	Softisan® 378	17J06B01349162	2
Fagron	Softisan® 378	17J06-B01-349162	7
Fagron	Softisan® 378	17J06B01350967	1
Fagron	Softisan® 378	17J06-B01-350967	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Softisan® 378	17J06-B01-525706	1
Fagron	Softisan® 378	17J06-B01-525718	7
Fagron	Softisan® 378	17J06-B01-525795	2
Fagron	Softisan® 378	17J06-B01-525822	1
Fagron	Softisan® 378	17I07-B01-340337	1
Fagron	Wool fat	18029902	1
Fagron	Wool fat	18139308	1
Fagron	Softisan® 378	1814640	1
Fagron	Wool fat	18224302	1
Fagron	Softisan® 378	18G30	1
Fagron	Softisan® 378	18G30-B05	4
Fagron	Softisan® 378	18G30-B05-352747	5
Fagron	Softisan® 378	18G30-B05-355402	5
Fagron	Softisan® 378	18G30-B05-356281	2
Fagron	Softisan® 378	18G30-B05-358235	7
Fagron	Softisan® 378	18G30-B05-3582535	1
Fagron	Softisan® 378	18G30-B05-525839	4
Fagron	Softisan® 378	18G30-B05-525949	1
Fagron	Softisan® 378	18G30-B05-52839	1
Fagron	Wool fat	18L21-T06-062805	1
Fagron	Wool fat	19000845001	1
Fagron	Softisan® 378	190230702	1
Fagron	Softisan® 378	190902908	1
Fagron	Softisan® 378	19430-B04-364125	1
Fagron	Softisan® 378	19A30-804-364125	2
Fagron	Softisan® 378	19A30-B04	4
Fagron	Softisan® 378	19A30-B04-36234	1
Fagron	Softisan® 378	19A30-B04-362346	11
Fagron	Softisan® 378	19A30B04-362347	1
Fagron	Softisan® 378	19A30-B04-362347	14
Fagron	Softisan® 378	19A30-B04-362348	1
Fagron	Softisan® 378	19A30-B04-362349	3
Fagron	Softisan® 378	19A30-B04-362349und-362346	1
Fagron	Softisan® 378	19A30-B04-364125	15
Fagron	Softisan® 378	19A-30-B04-364125	1
Fagron	Softisan® 378	19A30-B04526060	1
Fagron	Softisan® 378	19A30-B04-526060	2
Fagron	Softisan® 378	19A30-B04-526093	2
Fagron	Softisan® 378	19A30-B04-526134	1
Fagron	Softisan® 378	19D25-B04	2
Fagron	Softisan® 378	19K04-F06	6
Fagron	Softisan® 378	19K04-F06-367115	6
Fagron	Softisan® 378	19K04-F06-367116	4
Fagron	Softisan® 378	19K04-F06-367117	2
Fagron	Softisan® 378	19K04-F06-369505	2
Fagron	Softisan® 378	209602	4
Fagron	Softisan® 378	20F25-F02	7
Fagron	Softisan® 378	20F25-F02-371909	10
Fagron	Softisan® 378	20F25-F02-371910	1
Fagron	Softisan® 378	20F25-F02-373348	3
Fagron	Softisan® 378	20F25-F02-526335	1
Fagron	Softisan® 378	20F25-F02-526369	1
Fagron	Softisan® 378	20F25-F02-373348	1
Fagron	Softisan® 378	20J12-F01	2
Fagron	Softisan® 378	20J12-F01-374642	7
Fagron	Softisan® 378	21C19-F03	6
Fagron	Softisan® 378	21C19-F03-377530	1
Fagron	Softisan® 378	21C19-F03-377531	1
Fagron	Softisan® 378	21C19-F03-377532	4
Fagron	Softisan® 378	21I22-B02	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Softisan® 378	21J22-B10-219883	3
Fagron	Softisan® 378	2715E-02911	1
Fagron	Softisan® 378	2910	2
Fagron	Softisan® 378	20F25-F02-371909	2
Fagron	Softisan® 378	303624	2
Fagron	Softisan® 378	311662	2
Fagron	Softisan® 378	505717	3
Fagron	Softisan® 378	514E-02911	1
Fagron	Wool fat	5264700	1
Fagron	Wool fat	6001861002	1
Fagron	Softisan® 378	708826	1
Fagron	Wool fat	8002112002	1
Fagron	Wool fat	8004748002	1
Fagron	Softisan® 378	806859	3
Fagron	Softisan® 378	812878	6
Fagron	Softisan® 378	8927	1
Fagron	Softisan® 378	904887	1
Fagron	Softisan® 378	B04-3641205	1
Fagron	Softisan® 378	B07-2155303	1
Fagron	Softisan® 378	F02-3719009	1
Fagron	Softisan® 378	F03-3775300	1
Fagron	Softisan® 378	F03-3775302	2
Fagron	Softisan® 378	F06-3671108	1
Fagron	Wool fat	L04187	1
Fagron	Wool fat	L04369	1
Fargon	Softisan® 378	17I07-B01-338745	1
Fargon	Softisan® 378	17I07-B01-525611	1
Fargon	Softisan® 378	17I07-B01-525611	1
Fiebig/lamotte	Wool fat	8002760003	2
Fiebig/lamotte	Wool fat	8003158003	1
Fiebig	Wool fat	16003902	1
Fiebig	Wool fat	16345106	1
Fiebig	Wool fat	17167702	1
Fiebig	Wool fat	17248104	1
Fiebig	Wool fat	18139302	1
Fiebig	Wool fat	18139305	1
Fiebig	Wool fat	18224304	3
Fiebig	Wool fat	18314702	1
Fiebig	Wool fat	1839302	1
Fiebig	Wool fat	19000845001	1
Fiebig	Wool fat	8002760003	2
Finze	Wool fat	5264700	2
Fragon/Phoenix	Softisan® 378	F06-3671107	2
Fragon	Softisan® 378	17F15-B05-525528	1
Gatt-Koller	Wool fat	1803528	1
Gatt-Koller	Wool fat	1803868	1
Gatt-Koller	Wool fat	1804107	1
Gehe / Lamotte	Wool fat	8002760002	1
Gehe 02.05.19	Wool fat	18224306	1
GEHE 02.12.2014	Wool fat	5528000	1
Gehe 26.2.14	Wool fat	13306205	2
gehe henry	Wool fat	1000012824	1
Gehe Kassel 09.02.2015	Softisan® 378	75850	1
Gehe/ Lamotte	Wool fat	5375400	1
Gehe/Bionorica	Softisan® 378	118060	1
Gehe/Cealo	Wool fat	21003136005	1
Gehe/Henry Lamotte	Wool fat	8004748002	1
Gehe/L10	Wool fat	18314702	1
Gehe/Lamotte	Wool fat	8002112002	3
Gehe/Lamotte	Wool fat	8002760002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe/Lamotte	Wool fat	8003158002	1
Gehe	Wool fat	1000016943	1
Gehe	Wool fat	12036703	2
Gehe	Wool fat	12224404	1
Gehe	Wool fat	1230113	1
Gehe	Wool fat	13039403	1
Gehe	Softisan® 378	133396	2
Gehe	Softisan® 378	138485	1
GEHE	Wool fat	14086903	1
Gehe	Wool fat	14147901	1
Gehe	Wool fat	15050902	1
Gehe	Wool fat	15050903	1
Gehe	Softisan® 378	157870	1
Gehe	Wool fat	16003901	1
Gehe	Wool fat	16044306	1
Gehe	Wool fat	16163001	1
Gehe	Wool fat	16163006	1
GEHE	Wool fat	16163006	1
GEHE	Wool fat	16221902	1
GEHE	Wool fat	16221905	2
Gehe	Wool fat	16221906	1
Gehe	Wool fat	16221907	3
Gehe	Wool fat	16267201	1
Gehe	Wool fat	16345104	2
Gehe	Wool fat	16345107	1
Gehe	Wool fat	17139301	2
Gehe	Wool fat	17139303	1
Gehe	Wool fat	17167702	1
Gehe	Wool fat	17167704	1
Gehe	Wool fat	17248104	1
Gehe	Wool fat	17248105	1
Gehe	Wool fat	17307502	1
Gehe	Wool fat	17307505	1
Gehe	Wool fat	17307506	3
GEHE	Wool fat	17307508	1
GEHE	Softisan® 378	17B16-B06	1
GEHE	Wool fat	18029902	1
GEHE	Wool fat	18029903	1
Gehe	Wool fat	18139302	1
GEHE	Wool fat	18139302	1
Gehe	Wool fat	18139303	2
Gehe	Wool fat	18139305	2
Gehe	Wool fat	18139307	1
Gehe	Softisan® 378	18146401	1
Gehe	Wool fat	18224301	2
GEHE	Wool fat	18314702	1
Gehe	Wool fat	19000845001	2
Gehe	Wool fat	19000845002	1
GEHE	Wool fat	19043405	1
Gehe	Wool fat	19100504	1
GEHE	Wool fat	19100505	2
gehe	Wool fat	19100506	1
Gehe	Wool fat	19100507	1
Gehe	Wool fat	19174605	1
Gehe	Wool fat	192611004	4
Gehe	Wool fat	1928611004	1
Gehe	Wool fat	20001836001	2
Gehe	Wool fat	21000775007	2
Gehe	Wool fat	5375400	2
Gehe	Wool fat	5763900	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Wool fat	5787700	1
Gehe	Wool fat	5860600	1
Gehe	Wool fat	5908900	1
Gehe	Wool fat	5909000	1
Gehe	Wool fat	6001861002	2
Gehe	Wool fat	8002112002	4
Gehe	Wool fat	8002320010	3
Gehe	Softisan® 378	9477689	1
GUMO	Softisan® 378	132321	1
GUMO	Wool fat	19000845004	1
GUMO	Softisan® 378	21C19-F03	1
H. Lamotte/Alliance	Wool fat	1000016942	1
H. Lamotte	Wool fat	8003158002	1
Hedinger/4	Wool fat	18224304	1
Hedinger	Wool fat	11261105	2
Hedinger	Wool fat	17307508	1
Hennry Lamotte Oils Gmb...	Wool fat	1000012824	3
Hennry Lamotte Oils Gmb...	Wool fat	8004748003	1
Hennry Lamotte/Krieger	Wool fat	6001861002	2
Henri Lamotte /Krieger	Wool fat	8004748002	1
Henry Lamote Oils GmbH ...	Wool fat	8004134002	1
Henry Lamote Oils GmbH ...	Wool fat	8004748003	1
Henry Lamote Oils GmbH ...	Wool fat	1000010938	1
henry lamott/ Krieger	Wool fat	1000010939	1
henry lamott/ Krieger	Wool fat	8004748002	1
Henry Lamotte / 107	Wool fat	1000010938	1
Henry Lamotte / 2	Wool fat	1000012824	1
Henry Lamotte / AHD	Wool fat	1000010938	1
HENRY LAMOTTE / Anzag	Wool fat	1000012826	2
Henry Lamotte / Anzag	Wool fat	5650500	1
Henry Lamotte / Anzag	Wool fat	5690800	3
Henry Lamotte / Jenne	Wool fat	8004134002	1
Henry Lamotte / Jenne	Wool fat	8004134015	1
Henry Lamotte / Noweda	Wool fat	5909000	6
Henry Lamotte / Noweda	Wool fat	6001861002	2
Henry Lamotte / Noweda	Wool fat	8002112002	1
Henry Lamotte / Noweda	Wool fat	8003158002	1
Henry Lamotte / Noweda	Wool fat	8004134015	1
Henry Lamotte / Phoenix	Wool fat	5860600	2
Henry Lamotte / Phoenix	Wool fat	5909000	1
Henry Lamotte / Phoenix	Wool fat	6001861002	1
Henry Lamotte / Phoenix	Wool fat	8002112002	1
Henry Lamotte / Sanacorp	Wool fat	8003158001	1
Henry Lamotte / Sanacorp	Wool fat	8003158002	1
Henry Lamotte / Sanacorp	Wool fat	8004134001	1
HENRY LAMOTTE /Anzag	Wool fat	8003158003	1
HENRY LAMOTTE /Anzag	Wool fat	8004134003	3
HENRY LAMOTTE /Anzag	Wool fat	8004748004	2
Henry Lamotte /Noweda	Wool fat	8002112002	2
Henry Lamotte /Noweda	Wool fat	8004134015	3
Henry Lamotte /Phoenix	Wool fat	8003158002	1
HENRY LAMOTTE /Phönix	Wool fat	1000010937	2
Henry Lamotte GmbH	Wool fat	1000010938	3
Henry Lamotte GmbH	Wool fat	8002112002	1
Henry Lamotte GmbH	Wool fat	8002760002	1
Henry Lamotte GmbH	Wool fat	8003158002	4
Henry Lamotte GmbH	Wool fat	8004134002	3
Henry Lamotte GmbH	Wool fat	8004134015	1
Henry Lamotte Oils / Gehe	Wool fat	8002144001	1
Henry Lamotte Oils / GEHE	Wool fat	8004748004	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils / No...	Wool fat	5763900	1
Henry Lamotte Oils GmbH...	Wool fat	8002112002	1
Henry Lamotte Oils GmbH...	Wool fat	8002320010	1
Henry Lamotte Oils GmbH...	Wool fat	8003158002	1
Henry Lamotte Oils GmbH...	Wool fat	8004134002	2
Henry Lamotte Oils GmbH...	Wool fat	1000012824	1
Henry Lamotte Oils GmbH...	Wool fat	1000012824	1
Henry Lamotte Oils GmbH...	Wool fat	1000012824	1
Henry Lamotte Oils GmbH...	Wool fat		1
Henry Lamotte Oils GmbH...	Wool fat	180109AL/8003158003	1
Henry Lamotte Oils GmbH...	Wool fat	180320AL/8003158003	1
Henry Lamotte Oils GmbH...	Wool fat	8002144001	1
Henry Lamotte Oils GmbH...	Wool fat	8004134002	1
Henry Lamotte Oils GmbH...	Wool fat	8004134001	1
Henry Lamotte Oils Gmbh...	Wool fat	1000012824	1
Henry Lamotte Oils GmbH...	Wool fat	1000012824	2
Henry Lamotte Oils GmbH...	Wool fat	8004748002	1
Henry Lamotte Oils GMBH...	Wool fat	170303AL/800232001	1
Henry Lamotte Oils GmbH...	Wool fat	5528000	1
Henry Lamotte Oils GmbH...	Wool fat	8002144001	2
Henry Lamotte Oils GmbH...	Wool fat	8003158002	4
Henry Lamotte Oils GmbH...	Wool fat	1000010939	2
Henry Lamotte Oils GmbH...	Wool fat	8004134001	1
Henry Lamotte Oils GmbH...	Wool fat	8004134002	1
Henry Lamotte Oils GmbH...	Wool fat	8002144001	1
Henry Lamotte Oils GmbH...	Wool fat	8002760001	1
Henry Lamotte Oils GmbH...	Wool fat	8003158002	1
Henry Lamotte Oils GmbH...	Wool fat	8004748002	1
Henry Lamotte Oils GmbH...	Wool fat	1000016400	1
Henry Lamotte Oils Gmbh...	Wool fat	6001861001	1
Henry LAmotte Oils GmbH...	Wool fat	8002112002	1
Henry Lamotte Oils GmbH...	Wool fat	8002144001	1
Henry Lamotte Oils GmbH...	Wool fat	1000010939	1
Henry Lamotte Oils GmbH...	Wool fat	5908900	1
Henry Lamotte Oils GmbH...	Wool fat	8002144001	1
Henry Lamotte Oils GmbH...	Wool fat	8003158001	1
Henry Lamotte Oils GmbH...	Wool fat	5787700	3
Henry Lamotte Oils GmbH...	Wool fat	6001861002	5
Henry Lamotte Oils GmbH...	Wool fat	8002320010	1
Henry Lamotte Oils GmbH...	Wool fat	8003158002	4
Henry Lamotte Oils GmbH...	Wool fat	8004748003	2
Henry Lamotte Oils GmbH...	Wool fat	8004134002	4
Henry Lamotte Oils GmBh...	Wool fat	5520800	1
Henry Lamotte Oils GmbH...	Wool fat	8004748003	1
Henry Lamotte Oils GmbH	Wool fat		1
Henry Lamotte Oils Gmbh	Wool fat	1000010938	1
Henry Lamotte Oils GmbH	Wool fat	1000010938	4
Henry Lamotte Oils GMBH	Wool fat	1000010939	1
Henry Lamotte Oils Gmbh	Wool fat	1000012825	3
Henry Lamotte Oils GmbH	Wool fat	1000012825	3
Henry Lamotte Oils GmbH	Wool fat	100001285	1
Henry Lamotte Oils GmbH	Wool fat	1000015310	2
Henry Lamotte oils GmbH	Wool fat	1000016400	1
Henry Lamotte Oils Gmbh	Wool fat	1000016400	3
Henry Lamotte Oils GMBH	Wool fat	160915ALA	1
Henry Lamotte oils GmbH	Wool fat	17248106	1
Henry Lamotte Oils GmbH	Wool fat	5264700	1
Henry Lamotte Oils GmbH	Wool fat	5448200	2
Henry Lamotte Oils GmbH	Wool fat	5528000	2
Henry Lamotte Oils GmbH	Wool fat	5650500	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils GmbH	Wool fat	56908000	1
Henry Lamotte Oils GmbH	Wool fat	5763900	6
Henry Lamotte Oils GmbH	Wool fat	5860600	3
Henry Lamotte Oils GmbH	Wool fat	5908900	2
Henry Lamotte Oils Gmbh	Wool fat	5909000	1
Henry Lamotte Oils GmbH	Wool fat	5909000	1
Henry Lamotte Oils GmbH	Wool fat	5909100	1
Henry Lamotte Oils GmbH	Wool fat	6001861001	1
Henry Lamotte Oils GmbH	Wool fat	6001861002	3
Henry Lamotte Oils Gmbh	Wool fat	8002112002	2
Henry Lamotte Oils GmbH	Wool fat	8002112002	3
Henry Lamotte Oils GmbH	Wool fat	8002144001	2
Henry Lamotte Oils Gmbh	Wool fat	8002320010	2
Henry Lamotte Oils GmbH	Wool fat	8002320010	1
Henry Lamotte Oils GmbH	Wool fat	8002760001	4
Henry Lamotte Oils Gmbh	Wool fat	8002760002	1
Henry Lamotte Oils GmbH	Wool fat	8003158001	2
Henry Lamotte Oils Gmbh	Wool fat	8003158002	2
Henry Lamotte Oils GmbH	Wool fat	8003158002	3
Henry Lamotte Oils GmbH	Wool fat	8004134001	3
Henry Lamotte Oils Gmbh	Wool fat	8004134002	2
Henry Lamotte Oils Gmbh	Wool fat	8004134015	1
Henry Lamotte Oils GmbH	Wool fat	8004134015	3
Henry Lamotte Oils GmbH	Wool fat	8004748002	1
Henry Lamotte Oils Gmbh	Wool fat	8004748003	2
henry lamotte oils Gmh/N	Wool fat	5908900	1
Henry Lamotte Oils/ Gehe	Wool fat	5520800	2
Henry Lamotte Oils/ Gehe	Wool fat	8002760002	1
Henry Lamotte Oils/ Now...	Wool fat	8002144001	2
Henry Lamotte Oils/ Now...	Wool fat	8004748004	2
Henry Lamotte Oils/ San...	Wool fat	8002112002	1
Henry Lamotte Oils/Fiebig	Wool fat	8003158002	3
Henry Lamotte Oils/Fiebig	Wool fat	8004134002	1
Henry Lamotte Oils/Gehe	Wool fat	1000010939	1
Henry Lamotte Oils/Noweda	Wool fat	1000012826	4
Henry Lamotte Oils/Noweda	Wool fat	6001861002	1
Henry Lamotte Oils/Noweda	Wool fat	8002112002	1
Henry Lamotte Oils/Noweda	Wool fat	8004748003	1
Henry Lamotte Oils/Phönix	Wool fat	6001861001	1
Henry Lamotte Oils/Sana...	Wool fat	1000010937	2
Henry Lamotte Oils/Sana...	Wool fat	5320900	1
Henry Lamotte Oils/Sana...	Wool fat	8004134002	1
HENRY LAMOTTE OILS	Wool fat	10000010938	1
Henry Lamotte Oils	Wool fat	1000010937	1
Henry Lamotte Oils	Wool fat	1000010939	1
Henry Lamotte Oils	Wool fat	1000012824	2
HENRY LAMOTTE OILS	Wool fat	1000012825	3
Henry Lamotte Oils	Wool fat	1000012826	1
Henry Lamotte Oils	Wool fat	5198200	2
Henry Lamotte Oils	Wool fat	5253400	1
henry lamotte oils	Wool fat	5264700	1
Henry Lamotte Oils	Wool fat	5264700	1
Henry Lamotte Oils	Wool fat	5448200	3
Henry Lamotte Oils	Wool fat	5520800	1
Henry Lamotte Oils	Wool fat	5528000	1
Henry Lamotte Oils	Wool fat	5787700	1
henry lamotte oils	Wool fat	6001861002	1
Henry Lamotte Oils	Wool fat	6001861002	2
henry lamotte oils	Wool fat	6991861002	1
Henry Lamotte Oils	Wool fat	8002320010	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils	Wool fat	8003158001	1
Henry Lamotte Oils	Wool fat	8003158002	1
Henry Lamotte Oils	Wool fat	8004134001	1
Henry Lamotte Oils	Wool fat	8004748002	2
Henry Lamotte Oils	Wool fat	8004748004	1
Henry Lamotte Olis GmbH...	Wool fat	5528000	1
Henry Lamotte Olis GmbH...	Wool fat	5650500	1
Henry Lamotte Olis GmbH...	Wool fat	1000012824	3
Henry Lamotte Olis GmbH...	Wool fat	8004134001	1
Henry Lamotte Olis GmbH...	Wool fat	8004748002	2
Henry Lamotte Olis GmbH	Wool fat	8003158001	1
Henry Lamotte/ Alliance	Wool fat	1000015311	2
Henry Lamotte/ Alliance	Wool fat	8002320010	1
Henry Lamotte/ Anzag	Wool fat	8003158003	1
Henry Lamotte/ Gehe	Wool fat	5908900	1
Henry Lamotte/ Krieger	Wool fat	8002112002	1
Henry Lamotte/ Krieger	Wool fat	8002760002	1
Henry Lamotte/ Krieger	Wool fat	8003158002	1
Henry Lamotte/ Krieger	Wool fat	8004134002	1
Henry lamotte/ Noweda	Wool fat	1000015311	4
Henry Lamotte/ Noweda	Wool fat	8002320010	7
Henry Lamotte/ Noweda	Wool fat	8003158002	3
Henry Lamotte/ Noweda	Wool fat	80041340002	1
Henry Lamotte/ Phoenix	Wool fat	8002320010	1
henry lamotte/ Phöinix	Wool fat	1000012824	1
Henry Lamotte/ Phönix	Wool fat	1000010938	1
Henry Lamotte/ Phönix	Wool fat	6001861002	3
Henry Lamotte/ Phönix	Wool fat	8002112002	1
Henry Lamotte/ Phönix	Wool fat	8003158002	2
Henry Lamotte/ Phönix	Wool fat	8004134002	1
Henry Lamotte/ Sanacorp	Wool fat	1000010939	2
Henry Lamotte/ Sanacorp	Wool fat	1000012824	1
HENRY LAMOTTE/1	Wool fat	8004134001	1
HENRY LAMOTTE/1	Wool fat	80041748002	1
Henry Lamotte/AHD	Wool fat	10000100939	1
Henry Lamotte/AHD	Wool fat	1000010937	2
Henry Lamotte/AHD	Wool fat	1000010939	5
Henry Lamotte/AHD	Wool fat	17307502	2
Henry Lamotte/AHD	Wool fat	8004134001	1
Henry Lamotte/Alliance	Wool fat	1000010939	1
Henry Lamotte/Alliance	Wool fat	8002144002	1
Henry Lamotte/Alliance	Wool fat	8002320011	1
Henry Lamotte/Alliance	Wool fat	8002760001	1
Henry Lamotte/Anzag	Wool fat	1000015310	2
Henry Lamotte/Anzag	Wool fat	2908900	1
Henry Lamotte/Anzag	Wool fat	5908900	1
Henry Lamotte/Anzag	Wool fat	6001861001	1
Henry Lamotte/Anzag	Wool fat	8002112001	3
Henry Lamotte/Anzag	Wool fat	8002144001	1
Henry Lamotte/Anzag	Wool fat	800244001	1
Henry Lamotte/Gehe	Wool fat	1000010939	2
henry lamotte/gehe	Wool fat	16345104	1
Henry Lamotte/GEHE	Wool fat	5375400	1
Henry Lamotte/Gehe	Wool fat	8004134015	1
Henry Lamotte/Jenne	Wool fat	1000010939	1
Henry Lamotte/Jenne	Wool fat	163(8003158003)	1
Henry Lamotte/Jenne	Wool fat	8002144001	1
Henry Lamotte/Kehr	Wool fat	1000010939	5
Henry Lamotte/Kehr	Wool fat	1000012824	2
Henry Lamotte/Kehr	Wool fat	5860700	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/Kehr	Wool fat	5909000	2
Henry Lamotte/Kehr	Wool fat	8004748002	1
Henry Lamotte/Noweda	Wool fat	1000010938	1
Henry Lamotte/Noweda	Wool fat	1000010939	1
Henry Lamotte/Noweda	Wool fat	1000012825	2
Henry Lamotte/Noweda	Wool fat	1000015310	2
Henry Lamotte/Noweda	Wool fat	5520800	1
Henry Lamotte/Noweda	Wool fat	5787700	1
Henry Lamotte/Noweda	Wool fat	8002112002	2
Henry Lamotte/Noweda	Wool fat	8002144001	1
Henry Lamotte/Noweda	Wool fat	8002320010	3
Henry Lamotte/Noweda	Wool fat	8002760001	3
Henry Lamotte/Noweda	Wool fat	8003158002	1
Henry Lamotte/Noweda	Wool fat	8004748002	2
Henry Lamotte/Phoenix	Wool fat	1000010938	1
Henry lamotte/Phoenix	Wool fat	1000010939	1
Henry Lamotte/Phoenix	Wool fat	8002112002	1
Henry Lamotte/Phoenix	Wool fat	8003158002	5
Henry Lamotte/Phoenix	Wool fat	8004134002	2
Henry Lamotte/Phoenix	Wool fat	802760002	1
Henry Lamotte/Phönix	Wool fat	1000010938	2
Henry Lamotte/Phönix	Wool fat	1000010939	1
Henry Lamotte/Phönix	Wool fat	1000012825	1
Henry Lamotte/Phönix	Wool fat	6001861002	1
Henry Lamotte/Phönix	Wool fat	8002320010	1
Henry Lamotte/Phönix	Wool fat	8004134002	1
Henry Lamotte/Phönix	Wool fat	8004748002	1
Henry Lamotte/Phönix	Wool fat	8004748003	4
Henry Lamotte/Sana	Wool fat	5908900	1
Henry Lamotte/Sana	Wool fat	8002144001	2
Henry Lamotte/Sana	Wool fat	8002760001	1
Henry Lamotte/Sana	Wool fat	8003158001	1
Henry Lamotte/Sanacorp	Wool fat	1000010938	2
Henry Lamotte/Sanacorp	Wool fat	5528000	1
Henry Lamotte/Sanacorp	Wool fat	5727500	2
Henry Lamotte/Sanacorp	Wool fat	5909000	2
Henry Lamotte/Sanacorp	Wool fat	5909100	5
Henry Lamotte/Sanacorp	Wool fat	60160	1
Henry Lamotte/Sanacorp	Wool fat	8002760002	2
Henry Lamotte/Sanacorp	Wool fat	8004134001	1
Henry Lamotte/VDL	Wool fat	8002112002	1
Henry Lamotte/VDL	Wool fat	8002144002	1
Henry Lamotte	Wool fat	1000010937	1
Henry Lamotte	Wool fat	1000010938	7
HENRY LAMOTTE	Wool fat	1000010938	2
Henry Lamotte	Wool fat	1000010939	5
Henry Lamotte	Wool fat	1000012824	2
Henry Lamotte	Wool fat	1000012825	6
Henry Lamotte	Wool fat	2002112002	1
Henry Lamotte	Wool fat	5264700	1
Henry Lamotte	Wool fat	5448200	4
Henry Lamotte	Wool fat	5520800	1
Henry Lamotte	Wool fat	5528000	1
Henry Lamotte	Wool fat	55908900	1
Henry Lamotte	Wool fat	5650500	2
Henry Lamotte	Wool fat	5690800	3
Henry Lamotte	Wool fat	5763900	2
Henry Lamotte	Wool fat	5860600	3
Henry Lamotte	Wool fat	5908900	2
Henry Lamotte	Wool fat	5909000	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte	Wool fat	59090000	1
Henry Lamotte	Wool fat	6001861001	1
Henry Lamotte	Wool fat	6001861002	3
Henry Lamotte	Wool fat	6001861003	1
Henry Lamotte	Wool fat	8002112001	2
Henry Lamotte	Wool fat	8002112002	4
Henry Lamotte	Wool fat	8002144001	6
Henry Lamotte	Wool fat	8002320010	3
Henry Lamotte	Wool fat	8002760001	2
Henry Lamotte	Wool fat	8002760002	5
Henry Lamotte	Wool fat	8002760003	2
Henry Lamotte	Wool fat	8003158001	5
Henry Lamotte	Wool fat	8003158002	4
HENRY LAMOTTE	Wool fat	8003158002	1
Henry Lamotte	Wool fat	8003158003	1
Henry Lamotte	Wool fat	8004134001	1
Henry Lamotte	Wool fat	8004134002	5
HENRY LAMOTTE	Wool fat	8004134002	1
Henry Lamotte	Wool fat	8004134003	7
Henry Lamotte	Wool fat	8004134015	2
Henry Lamotte	Wool fat	8004748002	5
Henry Lamotte	Wool fat	8004748003	3
Henry Lamotte	Wool fat	8004748004	3
Henry LamotteOlis GmbH/...	Wool fat	8003158001	1
Henry Lamotte-Phönix	Wool fat	8002144001	1
Henry LamotteSanacorp	Wool fat	8004134001	1
Henry/alliance	Wool fat	8004748004	2
Henry/Anzag	Wool fat	8004748004	2
Henry/Phönix	Wool fat	1000012826	1
HenryLamotte / Jenne	Wool fat	1000010938/4820	1
HenryLamotte/Gehe	Wool fat	1000010938	2
HenryLamotte/Gehe	Wool fat	8002112002	1
HenryLamotte/Gehe	Wool fat	8003158002	1
HenryLamotte/Gehe	Wool fat	8004134002	2
HenryLamotte/Gehe	Wool fat	8004134015	1
HenryLamotte	Wool fat	5528000	1
HenryLamotte	Wool fat	5860700	1
HenryLamotte	Wool fat	5909100	2
HenryLamotte	Wool fat	8002320011	1
HenryLamotte	Wool fat	8003158003	1
Henty Lamotte Oils/ Gehe	Wool fat	1000010939	1
Heyl/Noweda	Wool fat	17248103	1
Hubertus Apotheke	Wool fat	165221907	1
Hubertus Apotheke	Wool fat	29022016	1
Ichthyol ges	Wool fat	8002112001	1
Ichthyol/Sanacorp	Wool fat	5448200	7
Ichthyol-Gesellschaft	Wool fat	16221907	2
Ichthyol-Gesellschaft	Wool fat	8004748002	1
IOI/Noweda	Softisan® 378	19K04-F06	1
IOI/Noweda	Softisan® 378	21C19-F03	1
IOI/Noweda	Softisan® 378	2910	1
IOI/Noweda	Softisan® 378	812878	3
IOI/Phoenix	Softisan® 378	19A30-B04	1
Jenne	Wool fat	1000012825	1
Jenne	Wool fat	100015310	1
Jenne	Wool fat	17248104	2
Jenne	Wool fat	17248106	1
Jenne	Wool fat	17307506	2
Jenne	Wool fat	18139303	1
Kehr / Lamotte	Wool fat	8002320010	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Kehr/Henry Lamotte	Wool fat	8004748002	2
Kehr	Wool fat	17248103	1
Klosterring	Wool fat	17139303	1
Kögl	Wool fat	1701216	1
Kögl	Wool fat	1702222	1
Kögl	Wool fat	1800576	1
Kögl	Wool fat	20172116	1
Kögl	Wool fat	402411160317	1
Kögl	Wool fat	402411165016	1
Kögl	Wool fat	4024111650317	1
Kögl	Wool fat	474001171017	1
Krieger/ Lamotte	Wool fat	8002760003	2
Krieger	Wool fat	16345106	1
Krieger	Wool fat	8003158003	1
Krieger	Wool fat	8004748003	1
L12	Wool fat	16345106	1
L12	Wool fat	17139303	1
Lamotte / Phönix	Wool fat	8004134001	1
Lamotte / Alliance Heal...	Wool fat	8002144001	1
Lamotte / Gehe	Wool fat	5763900	1
Lamotte / Phoenix	Wool fat	1000018542	1
Lamotte Noweda	Wool fat	1000010938	1
Lamotte Noweda	Wool fat	8004134002	3
Lamotte Noweda	Wool fat	8004134015	1
Lamotte Sanacorp	Wool fat	5264700	1
Lamotte Sanacorp	Wool fat	5448200	1
Lamotte Sanacorp	Wool fat	8002760002	2
Lamotte/ Gehe	Wool fat	8002760002	1
Lamotte/ Noweda	Wool fat	1000010938	3
Lamotte/ Noweda	Wool fat	8004748003	1
lamotte/ Phoenix	Wool fat	8002320011	1
Lamotte/ Sanacorp	Wool fat	1000010938	2
Lamotte/ Sanacorp	Wool fat	5198200	2
Lamotte/ Sanacorp	Wool fat	59099000	1
Lamotte/ Sanacorp	Wool fat	8002320010	1
Lamotte/ Sanacorp	Wool fat	8003158002	1
Lamotte/ Sanacorp	Wool fat	8004134002	1
Lamotte/ Sanacorp	Wool fat	8004134015	1
Lamotte/ Sanacorp	Wool fat	8004748002	1
Lamotte/AHD	Wool fat	10000010937	1
Lamotte/AHD	Wool fat	1000010938	2
Lamotte/AHD	Wool fat	1000012824	2
Lamotte/AHD	Wool fat	8002760001	1
Lamotte/AHD	Wool fat	8003158001	2
Lamotte/AHD	Wool fat	8004134015	1
Lamotte/Alliance 08.0...	Wool fat	1000012825	1
Lamotte/Alliance 22.07.21	Wool fat	1000015310	2
Lamotte/Alliance Health...	Wool fat	8003158002	2
Lamotte/Alliance	Wool fat	8003158002	1
Lamotte/Alliance	Wool fat	8003158003	5
lamotte/anzag	Wool fat	5264700	1
Lamotte/Anzag	Wool fat	5264700-3384310110	1
Lamotte/Anzag	Wool fat	6001861001	2
lamotte/anzag	Wool fat	6001861003	1
Lamotte/Ebert	Wool fat	5787700	1
Lamotte/Ebert	Wool fat	6001861002	2
Lamotte/Ebert	Wool fat	8002112002	2
Lamotte/Ebert	Wool fat	8002760002	1
Lamotte/Fiebig 24.07.2020	Wool fat	1000010938	1
Lamotte/Fiebig	Wool fat	1000012825	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Fiebig	Wool fat	5528000	1
Lamotte/Fiebig	Wool fat	5787700	1
Lamotte/Fiebig	Wool fat	5860600	1
Lamotte/Fiebig	Wool fat	5909000	2
Lamotte/Fiebig	Wool fat	8002112002	1
Lamotte/Fiebig	Wool fat	8004748002	1
Lamotte/Gehe	Wool fat	1000010939	1
Lamotte/gehe	Wool fat	5528000	1
Lamotte/Gehe	Wool fat	5909000	1
Lamotte/Gehe	Wool fat	8002112002	1
Lamotte/Gehe	Wool fat	8002320011	1
Lamotte/Jenne 30.10.2014	Wool fat	5528000	1
Lamotte/Jenne	Wool fat	5909000	1
Lamotte/Jenne	Wool fat	8004748003	1
Lamotte/Kehr	Wool fat	1000010938	2
Lamotte/Kehr	Wool fat	1000012824	2
Lamotte/Krieger	Wool fat	5264700	2
Lamotte/Now	Wool fat	8003158002	1
Lamotte/Now	Wool fat	8004134002	1
Lamotte/Nowed	Wool fat	5520800	1
Lamotte/Noweda	Wool fat	1000010939	1
Lamotte/Noweda	Wool fat	1000012824	1
Lamotte/Noweda	Wool fat	1000015310	1
Lamotte/Noweda	Wool fat	5860700	1
Lamotte/Noweda	Wool fat	8002112002	1
Lamotte/Noweda	Wool fat	8002144002	2
Lamotte/Noweda	Wool fat	8002320010	2
Lamotte/Noweda	Wool fat	8002760002	1
Lamotte/Noweda	Wool fat	8004134001	1
Lamotte/Noweda	Wool fat	8004134002	2
Lamotte/Noweda	Wool fat	8004134015	1
Lamotte/Otto	Wool fat	5264700	1
Lamotte/Otto	Wool fat	5375400	3
Lamotte/Otto	Wool fat	5787700	1
Lamotte/Phoenix	Wool fat	1000010938	1
Lamotte/Phoenix	Wool fat	5448200	1
lamotte/Phoenix	Wool fat	8003158001	2
Lamotte/Phoenix	Wool fat	8003158002	2
Lamotte/Phoenix	Wool fat	800413001	1
Lamotte/Phoenix	Wool fat	8004134001	1
Lamotte/Phoenix	Wool fat	8004134015	1
Lamotte/Phoenix	Wool fat	8004748002	1
Lamotte/Phönix	Wool fat	1000010938	11
Lamotte/Phönix	Wool fat	5650500	1
Lamotte/Phönix	Wool fat	8002760003	2
Lamotte/Phönix	Wool fat	8003158001	1
Lamotte/Phönix	Wool fat	8004134001	2
Lamotte/Phönix	Wool fat	8004134015	2
Lamotte/Phönix	Wool fat	8004748003	2
Lamotte/Sanacorp	Wool fat	5253400	1
Lamotte/Sanacorp	Wool fat	5448200	1
Lamotte/Sanacorp	Wool fat	5520800	1
Lamotte/Sanacorp	Wool fat	5787700	1
Lamotte/Sanacorp	Wool fat	5860700	4
Lamotte/Sanacorp	Wool fat	6001861002	2
Lamotte/Sanacorp	Wool fat	8002112003	2
Lamotte/Sanacorp	Wool fat	8004134002	1
Lamotte/Sanacorp	Wool fat	8004134015	2
Lamotte/Spangro	Wool fat	8003158002	1
Lamotte	Wool fat	10000010938	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte	Wool fat	1000010939	3
Lamotte	Wool fat	1000012824	1
Lamotte	Wool fat	1000015309	1
Lamotte	Wool fat	1000016400	1
Lamotte	Wool fat	100010939	1
Lamotte	Wool fat	100012824	1
Lamotte	Wool fat	5198200	1
Lamotte	Wool fat	5320900	1
Lamotte	Wool fat	5375400	2
Lamotte	Wool fat	5448400	1
Lamotte	Wool fat	5528000	2
Lamotte	Wool fat	5650500	2
Lamotte	Wool fat	590900	1
Lamotte	Wool fat	5909000	1
Lamotte	Wool fat	6001861001	4
Lamotte	Wool fat	6001861002	2
Lamotte	Wool fat	8002112001	1
Lamotte	Wool fat	8002112002	4
Lamotte	Wool fat	8002112003	1
Lamotte	Wool fat	8002144001	4
Lamotte	Wool fat	8002320010	3
Lamotte	Wool fat	8002320011	1
lamotte	Wool fat	8002760001	1
Lamotte	Wool fat	8002760001	1
Lamotte	Wool fat	8002760002	2
lamotte	Wool fat	800315001	1
lamotte	Wool fat	8003158001	2
Lamotte	Wool fat	8003158002	5
lamotte	Wool fat	8004134001	1
Lamotte	Wool fat	8004134002	2
lamotte	Wool fat	8004748002	1
Lamotte	Wool fat	8004748002	2
Midas	Wool fat	17307507	1
Midas	Wool fat	18139302	1
Nachprüfung	Wool fat	AP210716-17	1
Noweda/ 18.06.12 Caela	Wool fat	12015605	1
Noweda/Caesar & Loretz ...	Wool fat	15198802	1
noweda/lamotte	Wool fat	5763900	1
Noweda	Wool fat	1000012824	2
Noweda	Softisan® 378	109704	1
Noweda	Wool fat	11203903	2
Noweda	Wool fat	12036702	1
Noweda	Wool fat	12224404	4
Noweda	Wool fat	13213107	1
noweda	Wool fat	13398202	1
Noweda	Wool fat	14086905	1
Noweda	Wool fat	16003901	1
Noweda	Wool fat	16267201	2
Noweda	Wool fat	16345104	1
Noweda	Wool fat	16345107	1
Noweda	Wool fat	17139303	1
Noweda	Wool fat	17167702	1
Noweda	Wool fat	17248103	1
Noweda	Wool fat	17248104	2
Noweda	Softisan® 378	17B16-B06-331749	1
Noweda	Wool fat	18029901	1
Noweda	Wool fat	18139306	1
Noweda	Wool fat	18224305	1
Noweda	Wool fat	1836005	1
Noweda	Wool fat	19000845001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Wool fat	19000845004	1
Noweda	Wool fat	19043401	1
Noweda	Wool fat	19174605	3
Noweda	Wool fat	192611005	2
Noweda	Wool fat	20003738006	1
Noweda	Wool fat	20003738007	1
Noweda	Softisan® 378	2012060444	1
Noweda	Wool fat	5375400	1
Noweda	Wool fat	5448200	1
Noweda	Wool fat	5787700	2
Noweda	Wool fat	8004134001	1
Noweeda	Wool fat	19174604	1
NW/ Lamotte	Wool fat	5375400	1
Phoenix 02.07.2018 5,...	Wool fat	18029902	1
Phoenix / Bionorica Ethi	Softisan® 378	103897	2
Phoenix / Bionorica Ethi	Softisan® 378	109779	2
Phoenix / Bionorica Ethi	Softisan® 378	113358	4
Phoenix 06.02.2019	Wool fat	18139305	1
Phoenix 13.08.19 5,76EUR	Wool fat	19043405	1
Phoenix 25.07.2017 5,59EUR	Wool fat	16345104	1
Phoenix 27.05.2014	Wool fat	13306207	1
Phoenix Goettin	Softisan® 378	2013091014	2
Phoenix/Henry Lamotte O...	Wool fat	1000010939	1
Phoenix/Henry-Lamotte	Wool fat	1000012824	1
Phoenix	Wool fat	1000010939	2
Phoenix	Wool fat	1000012824	1
Phoenix	Wool fat	1000016400	2
Phoenix	Wool fat	13039403	1
Phoenix	Wool fat	13398201	1
Phoenix	Wool fat	13398202	1
Phoenix	Wool fat	15292316	1
Phoenix	Wool fat	16221907	1
Phoenix	Wool fat	17248103	1
Phoenix	Wool fat	17248104	1
Phoenix	Wool fat	17248109	1
Phoenix	Wool fat	17307503	1
Phoenix	Softisan® 378	17107-B01-340337	1
Phoenix	Wool fat	18224305	1
Phoenix	Wool fat	19000845001	1
Phoenix	Wool fat	19043405	2
Phoenix	Softisan® 378	200351604	1
Phoenix	Softisan® 378	200721705	1
Phoenix	Wool fat	21000775005	1
Phoenix	Wool fat	3092	1
Phoenix	Wool fat	5216400	1
Phoenix	Wool fat	5375400	2
phoenix	Wool fat	8003158002	2
Phönix GÖ 01.04.2019	Wool fat	18224302	3
Phönix/Bionorica	Softisan® 378	109778	2
Phönix/Bionorica	Softisan® 378	118060	1
Phönix/Fagon	Wool fat	16163002	1
Phönix/Phönix	Wool fat	16221907	1
Phönix	Wool fat	13213104	1
Phönix	Wool fat	13306205	1
Phönix	Wool fat	1336206	1
Phönix	Wool fat	153620001	1
Phönix	Wool fat	16003905	1
Phönix	Wool fat	16221906	1
Phönix	Wool fat	16221907	1
Phönix	Wool fat	16267201	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Wool fat	17139303	1
PHÖNIX	Wool fat	17167701	1
PHÖNIX	Wool fat	1728105	1
Phönix	Wool fat	18003426	1
Phonix	Wool fat	18139302	1
Phönix	Wool fat	18139303	1
Phönix	Wool fat	18139305	3
Phönix	Wool fat	18314703	1
Phönix	Wool fat	19100502	1
Phönix	Wool fat	19100507	2
Phönix	Wool fat	192611005	1
Phönix	Softisan® 378	19A30-B04-362347	1
Phönix	Softisan® 378	19K04-F06	1
Phönix	Softisan® 378	19K04-F06-369505	2
PHÖNIX	Wool fat	20000968004	1
PHÖNIX	Wool fat	20003738007	1
Phönix	Softisan® 378	20F25-F02-371910	1
Phönix	Wool fat	308894	2
Phönix	Wool fat	3172	1
Phönix	Wool fat	5100700	1
Phönix	Wool fat	5520800	1
phönix	Wool fat	8002112001	2
phönix	Wool fat	8002112002	1
phönix	Wool fat	8002144001	2
Phönix	Wool fat	8004134001	1
Phönix	Softisan® 378	904887	1
Post Apotheke	Wool fat	17307506	1
Purren Apotheke	Wool fat	11261106	1
Sana 31.01.17	Wool fat	16267201	1
Sanacorp EK:8,10 EUR...	Wool fat	16345107	2
Sanacorp	Softisan® 378	12A18-N11	1
Sanacorp 14.11.19 EK 4,93	Wool fat	19100506	1
Sanacorp Ulm	Wool fat	19100502	1
Sanacorp/ Lamotte	Wool fat	1000012825	1
Sanacorp/ Lamotte	Wool fat	100010938	1
Sanacorp/ Lamotte	Wool fat	8003158002	1
Sanacorp/ Lamotte	Wool fat	8004134002	1
Sanacorp	Wool fat		1
Sanacorp	Wool fat	12122404	3
Sanacorp	Wool fat	12224405	1
Sanacorp	Wool fat	13039405	1
Sanacorp	Wool fat	13213104	1
Sanacorp	Wool fat	13306206	1
Sanacorp	Wool fat	13398202	1
Sanacorp	Wool fat	14086904	1
Sanacorp	Wool fat	14147901	1
Sanacorp	Wool fat	14238004	1
Sanacorp	Wool fat	14238009	1
Sanacorp	Wool fat	14304502	1
Sanacorp	Wool fat	16044303	1
Sanacorp	Wool fat	16221906	1
Sanacorp	Wool fat	17139301	2
Sanacorp	Wool fat	17139303	1
Sanacorp	Wool fat	17167702	1
Sanacorp	Wool fat	17248103	1
Sanacorp	Wool fat	17307505	2
Sanacorp	Wool fat	18139305	1
Sanacorp	Wool fat	18139307	1
Sanacorp	Wool fat	18224302	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Wool fat	19000845001	2
Sanacorp	Wool fat	19043405	1
Sanacorp	Wool fat	19100502	2
Sanacorp	Wool fat	19100504	2
Sanacorp	Wool fat	19100506	2
Sanacorp	Wool fat	192611004	3
Sanacorp	Wool fat	192611005	4
Sanacorp	Softisan® 378	19K04-F06-367118	1
Sanacorp	Softisan® 378	19K04-F06-526271	1
sanacorp	Wool fat	20000968001	1
Sanacorp	Softisan® 378	3/AKD1	1
Sanacorp	Wool fat	46/AKD1	1
Sanacorp	Wool fat	46/AKD6	1
Sanacorp	Wool fat	5448200	3
Sanacorp	Wool fat	8002320010	1
Sanacorp	Wool fat	8003158002	7
Sanacorp	Wool fat	8004134002	1
Sanacorp	Wool fat	8004134015	1
Sanacorp	Wool fat	8004748002	1
Sanaorp	Wool fat	305553	1
Sanocorp WE:18.04.16 EK...	Wool fat	16003902	2
Spectrum Therapeutics G...	Softisan® 378	157870	1
Spectrum Therapeutics G...	Softisan® 378	158455	2
Spectrum Therapeutics	Softisan® 378	145521	1
Spirig (Galderma)	Wool fat	16044302	1
THC Pharm /Anzag	Softisan® 378	132321	1
THC Pharm GmbH/ Phönix	Softisan® 378	132321	1
THC Pharm GmbH	Softisan® 378	113358	1
THC Pharm/	Softisan® 378		1
THC Pharm/Alliance	Softisan® 378	98561	1
THC Pharm/Noweda	Softisan® 378	113358	1
THC Pharm	Softisan® 378	1180600	1
THC Pharma / Phoenix	Softisan® 378	103897	2
THC Pharma/Krieger	Softisan® 378	118060	1
THC Pharma/Phönix	Softisan® 378	95076	1
THC Pharma	Softisan® 378		1
THC Pharma	Softisan® 378	103897	1
THC Pharma	Softisan® 378	88154	1
THC Pharma	Softisan® 378	92456	1
THC Pharma	Softisan® 378	98561	1
Thc	Softisan® 378	2012060444	1
THC-Pharma	Softisan® 378	109704	5
THC-Pharma	Softisan® 378	113358	14
THC-Pharma	Softisan® 378	118060	14
THC-Pharma	Softisan® 378	132321	10
THC-Pharma	Softisan® 378	132321-4	1
THC-Pharma	Softisan® 378	133396	1
THC-Pharma	Softisan® 378	18060	1
THC-Pharma	Softisan® 378	7685001	1
THC-Pharma	Softisan® 378	VK290818-3	1
VDL 17.04.14;Preis 4,50	Wool fat		1
vdl	Wool fat	12224404	1

- 290 091 spectra from 1324 *Apo-Ident* customers from a total of 52 126 batches from a further 342 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Softisan® 378 / Wool fat* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Softisan® 378 / Wool fat* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	760	0	67 739
Type B	0	730	0	110 483
Type C	0	7302	65	290 084

The substance/substance group *Softisan® 378 / Wool fat* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.2105 %)
Type B	100.0000 % (> 99.9677 %)	100.0000 % (> 99.1781 %)
Type C	100.0000 % (> 99.6870 %)	99.1177 % (> 99.0770 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Softisan® 378 / Wool fat* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Shea butter, refined	13.38	–
Emulsifying hydrophobic base gel DAC	14.47	–
Pasta Cordes®	16.27	–
Paraffin, yellow	16.49	–
Hydrophobic base gel DAC	18.37	–
Softisan® 649	20.26	–
Wool alcohol ointment DAB	21.25	–
Paraffin, white	21.47	–
Laurel oil	25.25	–
Isopropyl palmitate	25.97	–
Hydrophilic ointment DAB	26.11	–
Triglycerides, medium-chain	26.89	–
Paraffin, light liquid	27.04	–
Wool alcohol ointment SR with white pa…	27.86	–
Squalane	28.58	–
Permethrin 25% solution	28.60	–
Olive oil, native	28.61	–
Eye ointment, emulsifying DAC	29.38	–

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Substanz	Distance in main model	Distance in second-stage model
Camphor ointment	29.92	–
Unguentum Cordes®	32.01	–
Paraffin, liquid	32.47	–
Peanut oil, refined	32.51	–
Triglycerol diisostearate	32.65	–
Apricot kernel oil, refined	32.67	–
Wool alcohol ointment SR/DAC	34.43	–
Salicylic acid concentrate 5%, white p...	34.85	–
2-ethylhexyl laurate	35.21	–
Decyl oleate	36.31	–
Eye paraffin	36.33	–
Isopropyl myristate	36.59	–
Avocado oil, refined	36.95	–
Metronidazole 25% in white petrolatum	37.44	–
Abwaschbare Salbengrundlage (NRF S.31)	39.59	–
Macrogol 8 stereate type I	44.56	–
Jojoba Oil, native	49.12	–
Soy lecithin, liquid	53.88	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Softisan® 378 / Wool fat* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30743	31743	5.02	19.24
30887	31117	7.75	15.28
30925	31847	5.66	17.98
31117	31117	0.00	13.98
31472	31117	3.95	13.52
31479	31743	2.07	16.27
31533	31533	0.00	17.50
31742	31743	3.38	18.53
31743	31743	0.00	17.73
31847	31847	0.00	18.93
31952	31743	1.77	18.16
32298	31117	2.60	13.81
32964	32964	0.00	17.50
33939	31743	3.54	18.80
35145	32964	5.22	20.78
36044	36044	0.00	19.55

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all

substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Softisan® 649**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30770-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Softisan® 649

Special notes

When selecting the *Softisan® 649* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Softisan® 649	3	3	16

Second-stage model

For differentiation of the substance/substance group *Softisan® 649* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Softisan® 649*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Fagron	Softisan® 649	12I10-N12	30770	40	1407601
Fagron	Softisan® 649	15E13-B01-307859	31699	60	20150527
Fagron	Softisan® 649	20F12-F02-374973	35462	40	20200724

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 140 spectra of 3 reference samples from the substance/substance group *Softisan® 649*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 359 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 117 spectra of 3 reference samples from the substance/substance group *Softisan® 649*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Fagron	Softisan® 649	13C19-N03	31118	37
Fagron	Softisan® 649	16H30-B03-325618	33249	40
Fagron	Softisan® 649	18H13-B02-352761	34273	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 196 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 33 spectra from 22 *Apo-Ident* customers from 16 batches from the substance/substance group *Softisan® 649*.

- Among them are spectra of independent samples from 16 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Apotheke Leutenberg/ No...	Softisan® 649	801297	1
Apotheke Leutenberg/AHD	Softisan® 649	605218	1
Apotheke Leutenberg/All...	Softisan® 649	801297	1
Apotheke Leutenberg	Softisan® 649	605218	1
Apotheke Leutenberg	Softisan® 649	801297	1
Caelo	Softisan® 649	150430	3
Caelo	Softisan® 649	17K16-B06-345556	1
Cremer Oleo GmbH	Softisan® 649	150430	1
cremer oleo Gmbh	Softisan® 649	703250	1
Cremer Oleo/Anzag	Softisan® 649	150430	1
Cremer Oleo/Anzag	Softisan® 649	409134	1
Cremer Oleo/Sanacorp	Softisan® 649	703250	1
Cremer Oleo	Softisan® 649	605218	1
Cremer Oleo	Softisan® 649	703250	1
Cremer	Softisan® 649	605218	1
Fa. Cremer Oleon GmbH	Softisan® 649	9041803	1
Fagron	Softisan® 649	105945	1
Fagron	Softisan® 649	130905-60-1	1
Fagron	Softisan® 649	15E13-B01-315602	1
Fagron	Softisan® 649	16H30-B03-325618	1
Fagron	Softisan® 649	18H13-B02-352761	1
Fagron	Softisan® 649	20F12-F02-372309	1
Fagron	Softisan® 649	503154	1
Fagron	Softisan® 649	708279	1
IOI Oleo GmbH	Softisan® 649	810328	1
Nordmann, Rassmann GmbH...	Softisan® 649	810328	1
Noweda /938705 / IOI Ol...	Softisan® 649	801297	1
Oleo/Sanacorp	Softisan® 649	801297	1
Oleochemical	Softisan® 649	801297	1
Oleochemicals	Softisan® 649	605218	1
Pharmachem	Softisan® 649	605218	1

- 297 425 spectra from 1324 *Apo-Ident* customers from a total of 52 971 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Softisan® 649* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Softisan® 649* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	140	0	68 359
Type B	0	117	0	111 196
Type C	0	33	0	297 425

The substance/substance group *Softisan® 649* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 95.7143 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 94.8718 %)
Type C	100.0000 % (> 99.6877 %)	100.0000 % (> 81.8182 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Softisan® 649* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Pasta Cordes®	23.71	–
Softisan® 378	24.74	–
Triglycerol diisostearate	25.59	–
Shea butter, refined	27.93	–
Hydrophilic ointment DAB	32.18	–
Wool fat	34.52	–
Paraffin, yellow	36.73	–
Permethrin 25% solution	37.64	–
Castor oil, refined	40.96	–
Castor oil, virgin	43.56	–
Macrogol 8 stereate type I	45.06	–
Abwaschbare Salbengrundlage (NRF S.31)	48.19	–
Emulsifying hydrophobic base gel DAC	49.51	–
Olive oil, native	50.20	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Softisan® 649* is separated from critical neighbours in a second-stage model,

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30770	30770	0.00	28.63
31699	30770	9.94	24.74
35462	30770	5.42	27.71

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Sorbitan trioleate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31031-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Sorbitan trioleate; Sorbitani trioleas

Special notes

When selecting the *Sorbitan trioleate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Sorbitan trioleate	6	3	38

Second-stage model

For differentiation of the substance/substance group *Sorbitan trioleate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Sorbitan trioleate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Sorbitan trioleate	12171410	31031	40	1407273
Caelo	Sorbitan trioleate	13317202	31130	40	20131017
Caelo	Sorbitan trioleate	13317212	31459	60	20131017
Caelo	Sorbitan trioleate	15337406	33441	40	20151110
Caelo	Sorbitan trioleate	190812	34467	40	20190510*
Caelo	Sorbitan trioleate	20001766	35301	40	20200727*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 260 spectra of 6 reference samples from the substance/substance group *Sorbitan trioleate*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 239 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Sorbitan trioleate*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Sorbitan trioleate	17056001	33461	40
Caelo	Sorbitan trioleate	180779	34080	40
Caelo	Sorbitan trioleate	21003569002	36395	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 121 spectra from 59 *Apo-Ident* customers from 42 batches from the substance/substance group *Sorbitan trioleate*.
- Among them are spectra of independent samples from 38 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Sorbitan trioleate	20001766001	1
Caelo	Sorbitan trioleate	10109108	1
Caelo	Sorbitan trioleate	11117102	1
Caelo	Sorbitan trioleate	11284601	1
Caelo	Sorbitan trioleate	11284603	1
Caelo	Sorbitan trioleate	11284607	1
Caelo	Sorbitan trioleate	11284608	1
Caelo	Sorbitan trioleate	12171405	1
Caelo	Sorbitan trioleate	12171408	3
Caelo	Sorbitan trioleate	1217408	1
Caelo	Sorbitan trioleate	13317204	1
Caelo	Sorbitan trioleate	13317209	2
Caelo	Sorbitan trioleate	13317212	5
Caelo	Sorbitan trioleate	13317213	1
Caelo	Sorbitan trioleate	14218202	1
Caelo	Sorbitan trioleate	14218205	1
Caelo	Sorbitan trioleate	15064901	1
Caelo	Sorbitan trioleate	15064903	2
Caelo	Sorbitan trioleate	15064905	2
Caelo	Sorbitan trioleate	15064908	1
Caelo	Sorbitan trioleate	15064909	1
Caelo	Sorbitan trioleate	15182502	2
Caelo	Sorbitan trioleate	15337403	4
Caelo	Sorbitan trioleate	15337404	5
Caelo	Sorbitan trioleate	15337405	3
Caelo	Sorbitan trioleate	15337406	3
Caelo	Sorbitan trioleate	17056001	7
Caelo	Sorbitan trioleate	17056004	7
Caelo	Sorbitan trioleate	18039701	3
Caelo	Sorbitan trioleate	180779	1
Caelo	Sorbitan trioleate	18077905	9
Caelo	Sorbitan trioleate	18077906	5
Caelo	Sorbitan trioleate	18077908	4
Caelo	Sorbitan trioleate	18077909	8
Caelo	Sorbitan trioleate	1877905	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Sorbitan trioleate	190812	2
Caelo	Sorbitan trioleate	19081203	4
Caelo	Sorbitan trioleate	20001766	1
Caelo	Sorbitan trioleate	20001766001	2
Caelo	Sorbitan trioleate	20001766002	1
Caelo	Sorbitan trioleate	20004095004	2
Caelo	Sorbitan trioleate	2001766001	1
Caesar & Lorenz GmbH	Sorbitan trioleate	15337404	1
Caesar & Lorenz GmbH	Sorbitan trioleate	17056004	1
Caesar & Lorenz GmbH	Sorbitan trioleate	20001766001	1
Caesar & Loretz GmbH/No...	Sorbitan trioleate	19081203	1
Caesar & Loretz GmbH/No...	Sorbitan trioleate	20004095004	1
Caesar & Loretz GmbH	Sorbitan trioleate	19081203	3
Caesar &Loretz GmbH	Sorbitan trioleate	12171405	1
Caesar&Loretz GmbH	Sorbitan trioleate	15064903	1
Caesar&Loretz GmbH	Sorbitan trioleate	20001766002	1
Caesar/Lorenz	Sorbitan trioleate	13317210	1
Euro OTC	Sorbitan trioleate	15064903	1
Gehe	Sorbitan trioleate	12171408	1
GEHE	Sorbitan trioleate	15337404	1
GEHE	Sorbitan trioleate	17056001	1

- 297 337 spectra from 1324 *Apo-Ident* customers from a total of 52 945 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Sorbitan trioleate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Sorbitan trioleate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	260	0	68 239
Type B	0	119	1	111 193
Type C	0	114	7	297 337

The substance/substance group *Sorbitan trioleate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.6923 %)
Type B	100.0000 % (> 99.9678 %)	99.1667 % (> 96.6667 %)
Type C	100.0000 % (> 99.6875 %)	94.2149 % (> 91.7355 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to

exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Sorbitan trioleate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Almond oil, refined	13.19	–
Apricot kernel oil, refined	18.88	–
Castor oil, virgin	19.48	–
Castor oil, refined	24.29	–
Olive oil, native	25.47	–
Soy lecithin, liquid	25.58	–
Avocado oil, refined	25.78	–
Sorbitan- and glycerol monooleate	27.23	–
Laurel oil	28.99	–
Sesame oil, refined	29.55	–
Peanut oil, refined	30.22	–
Rapeseed oil, refined	30.84	–
Shea butter, refined	32.27	–
Pumpkin seed oil, pressed	35.77	–
Oleyl oleate (stabilised)	36.15	–
Sunflower oil, refined	37.05	–
Soy oil, refined	37.88	–
Wheatgerm oil, refined	38.56	–
Grape seed oil, refined	39.03	–
Decyl oleate	39.29	–
Softisan® 649	40.16	–
Corn oil, refined	42.58	–
Safflower oil, refined type I	43.07	–
Triglycerol diisostearate	43.56	–
Jojoba Oil, native	47.88	–
Permethrin 25% solution	49.39	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Sorbitan trioleate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31031	31031	0.00	21.63
31130	34467	3.88	24.67
31459	34467	3.90	23.68

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
33441	34467	5.00	24.76
34467	34467	0.00	27.08
35301	35301	0.00	28.56

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Spearmint oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30668-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Spearmint oil; Menthae crispae aetheroleum

Special notes

When selecting the *Spearmint oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Spearmint oil	6	3	23

Second-stage model

For differentiation of the substance/substance group *Spearmint oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Spearmint oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Spearmint oil	11346805	30668	40	20111206
Caelo	Spearmint oil	13363904	31303	40	1407357
Caelo	Spearmint oil	13363904	31419	60	20131118
Caelo	Spearmint oil	181837	34446	40	20180628*
Caelo	Spearmint oil	191137	34447	40	20190430*
Caelo	Spearmint oil	181935	34448	40	20180718*
Caelo	Spearmint oil	192456	34709	40	20190927*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 300 spectra of 7 reference samples from the substance/substance group *Spearmint oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 199 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Spearmint oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Spearmint oil	161284	32205	40
Caelo	Spearmint oil	172396	33912	40
Caelo	Spearmint oil	191961	34621	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 37 spectra from 19 *Apo-Ident* customers from 24 batches from the substance/substance group *Spearmint oil*.

- Among them are spectra of independent samples from 23 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Spearmint oil	12206910	1
Caelo	Spearmint oil	12206913	1
Caelo	Spearmint oil	13093402	1
Caelo	Spearmint oil	14147608	2
Caelo	Spearmint oil	150013904	1
Caelo	Spearmint oil	15013909	1
Caelo	Spearmint oil	15013921	1
Caelo	Spearmint oil	16128403	1
Caelo	Spearmint oil	16128404	1
Caelo	Spearmint oil	16128405	3
Caelo	Spearmint oil	16128408	1
Caelo	Spearmint oil	16128409	1
Caelo	Spearmint oil	17239602	2
Caelo	Spearmint oil	17239605	1
Caelo	Spearmint oil	17239608	1
Caelo	Spearmint oil	18183704	2
Caelo	Spearmint oil	19113703	3
Caelo	Spearmint oil	192456003	1
Caelo	Spearmint oil	200000369003	1
Caelo	Spearmint oil	20000369003	2
Caelo	Spearmint oil	25062015B	1
Caelo	Spearmint oil	38/17	1
Cealo	Spearmint oil	16128402	1
L12	Spearmint oil	16128405	1
L12	Spearmint oil	17239602	1
Noweda	Spearmint oil	11346805	1
Sanacorp	Spearmint oil	13093402	1
Sanacorp	Spearmint oil	16128409	1
Sanacorp	Spearmint oil	17239602	1

- 297 421 spectra from 1324 *Apo-Ident* customers from a total of 52 963 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Spearmint oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Spearmint oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	300	0	68 199
Type B	0	120	0	111 193
Type C	0	36	1	297 421

The substance/substance group *Spearmint oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6877 %)	97.2973 % (> 89.1892 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Spearmint oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Caraway oil	19.69	–
Dwarf pine oil	23.70	–
Bergamot oil	44.24	–
Juniper oil	46.76	–
Pine silvestris oil	50.50	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Spearmint oil* is separated from critical neighbours in a second-stage model,

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30668	31303	11.97	38.80
31303	31303	0.00	39.54
31419	34447	3.01	41.66
34446	34446	0.00	40.82
34447	34447	0.00	38.89
34448	34448	0.00	37.88
34709	34709	0.00	38.49

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Spirit of ether**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30707-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Spirit of ether; Spiritus aethereus

Special notes

When selecting the *Spirit of ether* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Spirit of ether	4	2	9

Second-stage model

For differentiation of the substance/substance group *Spirit of ether* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Spirit of ether*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Spirit of ether	12074603	30707	40	20120320
Caelo	Spirit of ether	13131805	31207	40	1403111
Caelo	Spirit of ether	181156	34065	40	20180427*
Caelo	Spirit of ether	191998	34703	40	20190731*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 160 spectra of 4 reference samples from the substance/substance group *Spirit of ether*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 339 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Spirit of ether*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Spirit of ether	15442201	32566	40
Caelo	Spirit of ether	15442203	33218	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 15 spectra from 6 *Apo-Ident* customers from 11 batches from the substance/substance group *Spirit of ether*.
- Among them are spectra of independent samples from 9 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Spirit of ether	11375509	1
Caelo	Spirit of ether	11375512	1
Caelo	Spirit of ether	12074603	2
Caelo	Spirit of ether	13131805	2
Caelo	Spirit of ether	13131807	1
Caelo	Spirit of ether	14339701	1
Caelo	Spirit of ether	14339702	2
Caelo	Spirit of ether	14339707	1
Caelo	Spirit of ether	18115603	1
Caelo	Spirit of ether	19199801	1
Gehe	Spirit of ether	15442203	1
Gepepharm	Spirit of ether	15442203	1

- 297 443 spectra from 1324 *Apo-Ident* customers from a total of 52 976 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Spirit of ether* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Spirit of ether* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	160	0	68 339
Type B	0	80	0	111 233
Type C	0	14	1	297 443

The substance/substance group *Spirit of ether* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9810 %)	100.0000 % (> 96.2500 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6881 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Spirit of ether* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dexpanthenol	77.65	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Spirit of ether* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30707	34065	5.50	130.40
31207	31207	0.00	140.37
34065	34065	0.00	134.53
34703	34703	0.00	131.63

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Spirit soap**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30546-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Spirit soap; Spiritus saponatus

Special notes

When selecting the *Spirit soap* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Spirit soap	4	3	61

Second-stage model

For differentiation of the substance/substance group *Spirit soap* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Spirit soap*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Spirit soap	12247110	31153	40	1403401
Caelo	Spirit soap	13278409	31393	40	20130829
Caelo	Spirit soap	16130209	33443	40	20160510
Caelo	Spirit soap	16130209	33456	40	20160510
Caelo	Spirit soap	173045	33893	40	20171204*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 200 spectra of 5 reference samples from the substance/substance group *Spirit soap*. These samples are listed above in the *calibration samples* section. The reference samples come from 4 different batches.
- 68 299 spectra from a total of 1409 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *Spirit soap*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Spirit soap	182955	34332	40
Caelo	Spirit soap	183012	34333	40
Caelo	Spirit soap	21002991	35845	50

- 111 183 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 154 spectra from 65 *Apo-Ident* customers from 64 batches from the substance/substance group *Spirit soap*.
- Among them are spectra of independent samples from 60 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHD	Spirit soap	16130209	1
AHD	Spirit soap	17304502	1
AHD	Spirit soap	18295503	1
AHD	Spirit soap	18295504	1
Anzag 8.10.14 EK 4.88	Spirit soap	13278403	1
Anzag	Spirit soap	13278409	1
Caelo	Spirit soap	10121303	1
Caelo	Spirit soap	11051704	1
Caelo	Spirit soap	12121402	1
Caelo	Spirit soap	12247102	1
Caelo	Spirit soap	12247104	2
Caelo	Spirit soap	12247105	2
Caelo	Spirit soap	12247107	1
Caelo	Spirit soap	12247108	7
Caelo	Spirit soap	12247109	2
Caelo	Spirit soap	12247110	7
Caelo	Spirit soap	13278402	4
Caelo	Spirit soap	13278403	8
Caelo	Spirit soap	13278405	3
Caelo	Spirit soap	13278408	2
Caelo	Spirit soap	13278409	6
Caelo	Spirit soap	14212703	1
Caelo	Spirit soap	14212705	1
Caelo	Spirit soap	14212706	6
Caelo	Spirit soap	14212710	1
Caelo	Spirit soap	14212712	1
Caelo	Spirit soap	14212714	1
Caelo	Spirit soap	14212716	1
Caelo	Spirit soap	14364901	2
Caelo	Spirit soap	14364902	4
Caelo	Spirit soap	14364904	3
Caelo	Spirit soap	14364905	1
Caelo	Spirit soap	14364906	6
Caelo	Spirit soap	14364907	2
Caelo	Spirit soap	14364909	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Spirit soap	16069902	1
Caelo	Spirit soap	16130201	4
Caelo	Spirit soap	16130202	4
Caelo	Spirit soap	16130204	4
Caelo	Spirit soap	16130205	3
Caelo	Spirit soap	16130207	3
Caelo	Spirit soap	16130209	2
Caelo	Spirit soap	17304501	2
Caelo	Spirit soap	17304502	2
Caelo	Spirit soap	17304503	3
Caelo	Spirit soap	17304504	1
Caelo	Spirit soap	17304507	2
Caelo	Spirit soap	17304508	1
Caelo	Spirit soap	1730453	1
Caelo	Spirit soap	1829505	1
Caelo	Spirit soap	182955001	1
Caelo	Spirit soap	182955002	1
Caelo	Spirit soap	18295501	1
Caelo	Spirit soap	18295502	4
Caelo	Spirit soap	18295503	4
Caelo	Spirit soap	18295504	2
Caelo	Spirit soap	18295507	1
Caelo	Spirit soap	19011801	1
Caelo	Spirit soap	21002991001	1
Caelo	Spirit soap	27072013	1
Caelo	Spirit soap	2712Q-02323	1
Caelo	Spirit soap	3091306	1
Caelo	Spirit soap	3913U-02323	1
Caelo	Spirit soap	6081516	1
Caelo	Spirit soap	7071805	1
Caelo	Spirit soap	7111804	1
Caelo	Spirit soap	9031501	1
Caelo	Spirit soap	9172002	1
Caesar & Loretz GmbH	Spirit soap	16130209	1
Caesar & Loretz GmbH	Spirit soap	18295501	1
Caesar & Loretz GmbH	Spirit soap	18295502	1
Caesar & Loretz GmbH	Spirit soap	18295503	1
Caesar&Lorenz	Spirit soap	14364906	1
Cealo	Spirit soap	20000743002	1
Fagron	Spirit soap	16130201	1
GEHE	Spirit soap	17304502	1
Hänseler	Spirit soap		1
Sanacorp	Spirit soap	12247102	1

- 297 304 spectra from 1324 *Apo-Ident* customers from a total of 52 924 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Spirit soap* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Spirit soap* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

breaks down the numbers of correct and incorrect results according to the expected result (*positive/negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	200	0	68 299
Type B	0	130	0	111 183
Type C	0	153	1	297 304

The substance/substance group *Spirit soap* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6875 %)	99.3506 % (> 97.4026 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Spirit soap* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Camphor spirit	39.97	–
Isopropyl alcohol 70%	41.85	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Spirit soap* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31153	31153	0.00	37.66
31393	31153	3.32	38.55
33443	31153	7.19	37.11
33456	31153	2.99	38.72
33893	33893	0.00	41.74

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Spruce needle oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31414-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Spruce needle oil; Piceae aetheroleum

Special notes

When selecting the *Spruce needle oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Spruce needle oil	3	2	25

Second-stage model

For differentiation of the substance/substance group *Spruce needle oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Spruce needle oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Spruce needle oil	13152004	31414	40	1412281
Caelo	Spruce needle oil	13152004	31618	60	20130617
Caelo	Spruce needle oil	14348607	31787	60	20141202
Caelo	Spruce needle oil	19000518006	35165	40	2104234

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 200 spectra of 4 reference samples from the substance/substance group *Spruce needle oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 3 different batches.
- 68 299 spectra from a total of 1410 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Spruce needle oil*.
- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Spruce needle oil	163511	33095	40
Caelo	Spruce needle oil	171966	33682	40

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 74 spectra from 35 *Apo-Ident* customers from 26 batches from the substance/substance group *Spruce needle oil*.

- Among them are spectra of independent samples from 25 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Apotheker Bauer & Cie	Spruce needle oil	91697-89-1	1
Caelo	Spruce needle oil	13389508	1
Caelo	Spruce needle oil	14348607	1
Caelo	Spruce needle oil	15380402	2
Caelo	Spruce needle oil	15418201	1
Caelo	Spruce needle oil	15418209	1
Caelo	Spruce needle oil	15418210	2
Caelo	Spruce needle oil	16351102	2
Caelo	Spruce needle oil	17196601	11
Caelo	Spruce needle oil	17196602	6
Caelo	Spruce needle oil	18129709	3
Caelo	Spruce needle oil	18129710	7
Caelo	Spruce needle oil	19000518012	1
Caelo	Spruce needle oil	19000518013	1
Caelo	Spruce needle oil	1900518010	1
Caelo	Spruce needle oil	3071717	1
Caelo	Spruce needle oil	3323	1
Caelo	Spruce needle oil	8051802	1
Caesar & Loretz GmbH/Je...	Spruce needle oil	18129710	3
Caesar & Loretz GmbH/Ph...	Spruce needle oil	18129703	1
Caesar & Loretz GmbH/Sa...	Spruce needle oil	17196601	1
Caesar & Loretz GmbH	Spruce needle oil	17196602	2
Caesar & Loretz GmbH	Spruce needle oil	17196603	2
Caesar & Loretz GmbH	Spruce needle oil	18129703	3
Caesar & Loretz GmbH	Spruce needle oil	18129704	2
Caesar & Loretz GmbH	Spruce needle oil	18129709	1
Caesar & Loretz GmbH	Spruce needle oil	18129710	1
Caesar & Loretz GmbH	Spruce needle oil	19000518010	1
Fiebig	Spruce needle oil	1716601	1
Fiebig	Spruce needle oil	17196601	7
Gehe	Spruce needle oil	15380403	1
Gehe	Spruce needle oil	15418209	1
Nachprüfung	Spruce needle oil	2914A-02006	1
Sanacorp	Spruce needle oil	17196601	1
Taoasis	Spruce needle oil	22336-122331	1

- 297 384 spectra from 1324 *Apo-Ident* customers from a total of 52 961 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model,

the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Spruce needle oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Spruce needle oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	200	0	68 299
Type B	0	80	0	111 233
Type C	0	73	1	297 384

The substance/substance group *Spruce needle oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.0000 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6876 %)	98.6486 % (> 94.5946 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Spruce needle oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Sage oil	12.71	–
Turpentine oil	24.77	–
Eucalyptus oil	29.19	–
Myrtle oil	33.98	–
Juniper wood oil	34.37	–
Rosemary oil	36.15	–
Dwarf pine oil	41.61	–
Cineole	44.25	–
Cypress oil	51.61	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Spruce needle oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31414	31414	0.00	20.55
31618	31414	2.10	19.24
31787	31414	5.34	19.54
35165	35165	0.00	26.89

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Squalane**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31327-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Squalane; Squalanum

Special notes

When selecting the *Squalane* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Squalane	5	1	3

Second-stage model

For differentiation of the substance/substance group *Squalane* the following second-stage model is used:

- Submodel 06

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Squalane*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Squalane	13202603	31327	40	1504359
Caelo	Squalane	13202603	31328	40	20130809
Caelo	Squalane	13202603	31329	40	20130809
Caelo	Squalane	14330704	32075	40	9465
Caelo	Squalane	16030504	32302	40	20160205
Caelo	Squalane	171380	33317	40	20170609*
Caelo	Squalane	19232102	34684	40	20190923

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 280 spectra of 7 reference samples from the substance/substance group *Squalane*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.

- 68 219 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 40 spectra of 1 reference samples from the substance/substance group *Squalane*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 1 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Squalane	17138001	33422	40

- 111 273 spectra from a total of 2665 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 4 spectra from 2 *Apo-Ident* customers from 4 batches from the substance/substance group *Squalane*.

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Squalane	16030504	1
Euro OTC	Squalane	316001302	1
L12	Squalane	117001301	1
Spinnrad/Noweda	Squalane	116001301	1

- 297 454 spectra from 1324 *Apo-Ident* customers from a total of 52 983 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Squalane* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Squalane* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	280	0	68 219
Type B	0	40	0	111 273
Type C	0	3	1	297 454

The substance/substance group *Squalane* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.8571 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 85.0000 %)
Type C	100.0000 % (> 99.6897 %)	n/a (n/a)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Squalane* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Triglycerides, medium-chain	13.73	–
Wool fat	16.63	–
2-ethylhexyl laurate	17.96	74.79
Hydrophobic base gel DAC	21.35	–
Emulsifying hydrophobic base gel DAC	21.71	–
Softisan® 649	29.64	–
Camphor ointment	31.63	–
Paraffin, light liquid	33.25	–
Apricot kernel oil, refined	35.08	–
Peanut oil, refined	35.67	–
Laurel oil	35.93	–
Olive oil, native	36.79	–
Pasta Cordes®	36.90	–
Decyl oleate	38.61	–
Shea butter, refined	38.76	–
Hydrophilic ointment DAB	39.89	–
Avocado oil, refined	40.16	–
Guaiazulene 25%, water-soluble	40.45	–
Sesame oil, refined	43.31	–
Isopropyl palmitate	43.64	–
Paraffin, yellow	45.32	–
Rapeseed oil, refined	46.35	–
Paraffin, liquid	46.88	–
Soy lecithin, liquid	47.01	–
Isopropyl myristate	49.15	–
Triglycerol diisostearate	50.77	–
⋮	⋮	⋮
Wool alcohol cream SR	>50	41.72
Base cream DAC	>50	62.35
Eucerin® cum Aqua	>50	63.06
Non-ionic hydrophil ointment	>50	67.76
Wool alcohol cream DAB	>50	79.82
Lanette® ointment (conserved)	>50	90.98

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Squalane* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31327	31327	0.00	14.73
31328	31327	1.09	13.87
31329	31327	1.82	14.49
32075	32075	0.00	15.22
32302	32075	2.92	14.07
33317	33317	0.00	15.77
34684	31327	5.66	15.06

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Syrups**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30753-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Syrups; Althae sirupus (konserviert); Cherry syrup (conserved); Fennel honey (conserved); Ipecacuanha syrup (NRF 19.1); Marshmallow syrup (conserved); Mel foeniculi (konserviert); Raspberry syrup (conserved); Ribwort plantain syrup (conserved); Sirupus cerasi (konserviert); Sirupus ipecacuanhae; Sirupus plantaginis lanceolatae; Sirupus rubi idaei; Sirupus simplex; Sorbitol, liquid (non crystallising); Sorbitolum liquidum non cristallisabile; Sugar syrup DAB

Special notes

When selecting the *Syrups* substance/substance group, the following information is displayed to the user:

- Advice: A discrimination between Sorbitol-solution 70 % (non-crystallizing) and Sorbitol-solution 70 % (crystallizing) is not possible by means of NIR. Therefore, please use the identity verification B described in European Pharmacopoeia (angle of rotation of polarized light).

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Syrups	45	64	941

Second-stage model

For differentiation of the substance/substance group *Syrups* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Syrups*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Cherry syrup (co...	13278301	31155	40	1402568
Caelo	Cherry syrup (co...	14034503	31359	60	20140131
Caelo	Cherry syrup (co...	163453	33099	40	20161221*
Caelo	Fennel honey (co...	12247203	30900	60	1402574
Caelo	Fennel honey (co...	14045202	31598	60	20140317
Caelo	Fennel honey (co...	181580	34233	40	20180704*
Caelo	Fennel honey (co...	192389	34734	40	20190918*
Caelo	Fennel honey (co...	21001359	35552	60	20210507*
apomix	Ipecacuanha syru...	03A171016	33420	40	20161019
apomix	Ipecacuanha syru...	02A200616	33421	40	20160627
apomix	Ipecacuanha syru...	02A200420	35290	40	20201027
Fagron	Ipecacuanha syru...	13G23-M02	31181	40	1404013
Fagron	Ipecacuanha syru...	02B200616	33263	40	20160627
Caelo	Marshmallow syru...	12067103	30753	40	20120312
Caelo	Marshmallow syru...	12303106	31147	40	1404662
Caelo	Marshmallow syru...	13410907	31365	40	20140318
Caelo	Marshmallow syru...	161233	32210	40	20160427*
Caelo	Marshmallow syru...	171283	33331	40	20170511*
Caelo	Marshmallow syru...	190100	34477	40	20190206*
Caelo	Marshmallow syru...	192181	34664	40	20190819*
Caelo	Raspberry syrup ...	13122003	31051	40	1402567
Caelo	Raspberry syrup ...	14114303	31467	60	20140411
Euro OTC	Raspberry syrup ...	1508015	31773	60	20150814*
Euro OTC	Raspberry syrup ...	1511024	31802	60	20150511*
Euro OTC	Raspberry syrup ...	1605008	32284	40	20160513*
Euro OTC	Raspberry syrup ...	1701022	32984	40	20170126*
Euro OTC	Raspberry syrup ...	2010023	35138	40	20201111*
Caelo	Ribwort plantain...	11380011	30897	60	20120112
Caelo	Ribwort plantain...	13152307	31218	40	1404663
Caelo	Ribwort plantain...	182898	34329	40	20181211*
Caelo	Ribwort plantain...	191483	34600	40	20190618*
Caelo	Ribwort plantain...	21003924001	36481	40	20220105
Caelo	Sorbitol, liquid...	12124910	30870	40	20120525
Caelo	Sorbitol, liquid...	13060206	31124	40	20130306
Caelo	Sorbitol, liquid...	14034706	31353	60	8780
Caelo	Sorbitol, liquid...	21003914	36065	40	20220210*
Euro OTC	Sorbitol, liquid...	1604020	32277	40	20160511*
Euro OTC	Sorbitol, liquid...	1702011	33228	40	20170220*
Euro OTC	Sorbitol, liquid...	2003010	34831	40	20200318*
apomix	Sugar syrup DAB	73A101013	31175	40	1403164
apomix	Sugar syrup DAB	30A130617	33505	40	20170616
apomix	Sugar syrup DAB	31A030619	34526	40	20190603
Caelo	Sugar syrup DAB	14134301	31355	60	20140514

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Sugar syrup DAB	153348	31877	60	20151014*
Caelo	Sugar syrup DAB	20003766	35164	40	20201208*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 2020 spectra of 45 reference samples from the substance/substance group *Syrups*. These samples are listed above in the *calibration samples* section. The reference samples come from 45 different batches.

- 66 479 spectra from a total of 1368 batches from further 221 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 2689 spectra of 65 reference samples from the substance/substance group *Syrups*.

- Among them are spectra of independent samples from 64 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cherry syrup (conserved)	16345303	33837	40
Caelo	Cherry syrup (conserved)	173511	33891	40
Caelo	Cherry syrup (conserved)	20003552001	35748	50
Caelo	Fennel honey (conserved)	16039406	33153	40
Caelo	Fennel honey (conserved)	190514	34454	40
apomix	Ipecacuanha syrup (NRF 19.1)	03B291118	34527	40
apomix	Ipecacuanha syrup (NRF 19.1)	02B120422	36230	39
Fagron	Ipecacuanha syrup (NRF 19.1)	01A070817	33642	40
Caelo	Marshmallow syrup (conserved)	160775	32215	40
Caelo	Marshmallow syrup (conserved)	162136	32335	40
Caelo	Marshmallow syrup (conserved)	21001213010	35739	50

continued on the next page

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Marshmallow syrup (conserved)	22001586002	36483	40
Caelo	Raspberry syrup (conserved)	161516	32213	40
Caelo	Raspberry syrup (conserved)	163454	33092	40
Caelo	Raspberry syrup (conserved)	171284	33332	40
Caelo	Raspberry syrup (conserved)	181909	34222	40
Caelo	Raspberry syrup (conserved)	190098	34476	40
Caelo	Raspberry syrup (conserved)	191533	34626	40
Caelo	Raspberry syrup (conserved)	192399	34706	40
Caelo	Raspberry syrup (conserved)	21000519	35300	40
Caelo	Raspberry syrup (conserved)	22000543	36171	40
Euro OTC	Raspberry syrup (conserved)	1603007	32193	40
Euro OTC	Raspberry syrup (conserved)	1608003	32705	40
Euro OTC	Raspberry syrup (conserved)	1610026	32833	40
Euro OTC	Raspberry syrup (conserved)	1705037	33450	40
Euro OTC	Raspberry syrup (conserved)	1709003	33660	40
Euro OTC	Raspberry syrup (conserved)	1712004	33930	40
Euro OTC	Raspberry syrup (conserved)	1803009	34092	40
Euro OTC	Raspberry syrup (conserved)	1807026	34190	40
Euro OTC	Raspberry syrup (conserved)	1810021	34299	40
Euro OTC	Raspberry syrup (conserved)	1901049	34432	40
Euro OTC	Raspberry syrup (conserved)	1908010	34696	40
Euro OTC	Raspberry syrup (conserved)	2003067	34829	40
Euro OTC	Raspberry syrup (conserved)	2108008	35623	50
Euro OTC	Raspberry syrup (conserved)	2206028	36367	40
Caelo	Ribwort plantain syrup (cons...	16335301	33457	40
Caelo	Ribwort plantain syrup (cons...	18078901	34048	40
Caelo	Ribwort plantain syrup (cons...	21001214004	35841	50
Caelo	Sorbitol, liquid (non crysta...	160788	32217	40
Caelo	Sorbitol, liquid (non crysta...	173054	33895	40
Caelo	Sorbitol, liquid (non crysta...	190223	34462	40
Caelo	Sorbitol, liquid (non crysta...	192342	34733	40
Euro OTC	Sorbitol, liquid (non crysta...	1802020	34006	40
Euro OTC	Sorbitol, liquid (non crysta...	1804019	34182	40
Euro OTC	Sorbitol, liquid (non crysta...	1905010	34492	40
Euro OTC	Sorbitol, liquid (non crysta...	2003063	34833	40
Euro OTC	Sorbitol, liquid (non crysta...	2204017	36282	40
apomix	Sugar syrup DAB	35A120422	36243	40
Caelo	Sugar syrup DAB	170581	33126	40
Caelo	Sugar syrup DAB	181757	34246	40
Caelo	Sugar syrup DAB	182278	34247	40
Caelo	Sugar syrup DAB	182964	34314	40
Caelo	Sugar syrup DAB	21000066	35316	40
Caelo	Sugar syrup DAB	21000067	35317	40
Caelo	Sugar syrup DAB	21002020	35664	50
Caelo	Sugar syrup DAB	21002120	35665	50
Caelo	Sugar syrup DAB	21002664	35666	50
Caelo	Sugar syrup DAB	21002665	35667	50
Caelo	Sugar syrup DAB	21002898	35790	50
Caelo	Sugar syrup DAB	21002899	35791	50
Caelo	Sugar syrup DAB	21003410	35894	50
Caelo	Sugar syrup DAB	21003411	35895	50
Caelo	Sugar syrup DAB	22001742	36470	40
Caelo	Sugar syrup DAB	22001744	36471	10
Caelo	Ribwort plantain syrup (cons...	16335301	33458	40

- 108 624 spectra from a total of 2602 batches from further 343 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B*

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 3073 spectra from 547 *Apo-Ident* customers from 967 batches from the substance/substance group *Syrups*.
- Among them are spectra of independent samples from 933 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
A.H.D.	Raspberry syrup (conserved)	12367602	2
ACM	Marshmallow syrup (conserved)	1015	1
AHD	Raspberry syrup (conserved)	13122001	1
Alliance H.	Sugar syrup DAB	37/A030616	1
Alliance health	Sugar syrup DAB	11A280115	1
Alliance Healthcare	Sorbitol, liquid (non crysta...	19163403	1
AMH Niemann GmbH & Co. KG	Sugar syrup DAB	11A250321	1
AMH Niemann GmbH & Co.K...	Sugar syrup DAB	33A170516	1
AMH Niemann GmbH & Co.K...	Sugar syrup DAB	7A250116	1
AMH Niemann GmbH & Co.KG	Sugar syrup DAB	22A130315	1
AMH Niemann GmbH / Sana...	Sugar syrup DAB	49A290716	1
AMH Niemann GmbH/ Gehe	Sugar syrup DAB	80A261118	1
AMH Niemann GmbH/Noweda	Sugar syrup DAB	33A190617	2
AMH Niemann GmbH/Noweda	Sugar syrup DAB	65A141117	2
AMH Niemann GmbH	Sugar syrup DAB	30A200415	1
AMH Niemann GmbH	Sugar syrup DAB	50A020715	1
AMH Niemann GmbH	Sugar syrup DAB	70A051015	1
AMH Niemann GmbH	Sugar syrup DAB	74A241014	1
AMH Niemann GmbH	Sugar syrup DAB	85A261115	1
AMH Niemann/Sanacorp	Sugar syrup DAB	23A280318	1
AMH Niemann/Sanacorp	Sugar syrup DAB	78A221118	1
AMH Niemann	Sugar syrup DAB	1A130114	1
AMH Niemann	Sugar syrup DAB	63A211119	1
Anzag 13.11.12	Raspberry syrup (conserved)	12283101	1
Anzag 17.01.2013	Sugar syrup DAB	88A051212	1
Anzag 25.01.2013	Sugar syrup DAB	71A091012	1
Anzag 31.10.12	Raspberry syrup (conserved)	1205001-01	1
Anzag/ PKH Halle	Sugar syrup DAB	15A080319	1
Anzag	Cherry syrup (conserved)	11291603	1
Anzag	Sorbitol, liquid (non crysta...	120701201	1
Anzag	Raspberry syrup (conserved)	1306006-01	1
Anzag	Sugar syrup DAB	44A260612	1
Anzag	Sugar syrup DAB	58A210813	1
apo ident	Sorbitol, liquid (non crysta...	1702011-02	1
apo-ident/Phönix	Sorbitol, liquid (non crysta...	1702011-02	1
apo-ident	Sorbitol, liquid (non crysta...	1804019-01	1
Apom/Noweda	Sugar syrup DAB	28A010617	1
apomix	Sugar syrup DAB		1
apomix	Sugar syrup DAB	10A110321	1
apomix	Sugar syrup DAB	10A3000113	1
apomix	Sugar syrup DAB	11121305	1
apomix	Sugar syrup DAB	1116E-02263	1
apomix	Sugar syrup DAB	1118Q-02263	1
apomix	Sugar syrup DAB	11A060213	1
apomix	Sugar syrup DAB	11A120216	3
apomix	Sugar syrup DAB	11A190218	4
apomix	Sugar syrup DAB	11A250321	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Sugar syrup DAB	11A280115	2
apomix	Sugar syrup DAB	12A010212	1
apomix	Sugar syrup DAB	12A060220	1
apomix	Sugar syrup DAB	12A120219	2
apomix	Sugar syrup DAB	12A190218	1
apomix	Sugar syrup DAB	13101405	1
apomix	Sugar syrup DAB	1314I-02263	1
apomix	Sugar syrup DAB	13A060220	1
apomix	Sugar syrup DAB	13A080421	7
apomix	Sugar syrup DAB	13A150216	1
apomix	Sugar syrup DAB	13A150219	1
apomix	Sugar syrup DAB	13A200217	4
apomix	Sugar syrup DAB	13A290115	1
apomix	Sugar syrup DAB	14A150216	1
apomix	Sugar syrup DAB	14A190219	1
apomix	Sugar syrup DAB	14a200217	1
apomix	Sugar syrup DAB	1515Q-02263	1
apomix	Sugar syrup DAB	15A080319	2
apomix	Sugar syrup DAB	15A100215	1
apomix	Sugar syrup DAB	15A200317	2
apomix	Sugar syrup DAB	16A200317	1
apomix	Sugar syrup DAB	16A210213	1
apomix	Sugar syrup DAB	17A030314	1
apomix	Sugar syrup DAB	17A060318	1
apomix	Sugar syrup DAB	17A250220	4
apomix	Sugar syrup DAB	17A270213	1
apomix	Sugar syrup DAB	18081517	1
apomix	Sugar syrup DAB	18095601	3
apomix	Sugar syrup DAB	18A030314	2
apomix	Sugar syrup DAB	18A190521	3
apomix	Sugar syrup DAB	19A040314	1
apomix	Sugar syrup DAB	19A150517	3
apomix	Sugar syrup DAB	19A260220	3
apomix	Ipecacuanha syrup (NRF 19.1)	1A070817	1
apomix	Sugar syrup DAB	1A130116	2
apomix	Sugar syrup DAB	1A140113	1
apomix	Sugar syrup DAB	1A140115	3
apomix	Sugar syrup DAB	1A160118	4
apomix	Ipecacuanha syrup (NRF 19.1)	1A190320	1
apomix	Sugar syrup DAB	20021307	1
apomix	Sugar syrup DAB	20A120318	3
apomix	Sugar syrup DAB	20A200521	1
apomix	Sugar syrup DAB	20A270215	1
apomix	Sugar syrup DAB	20A280213	1
apomix	Sugar syrup DAB	2112I-02263	1
apomix	Sugar syrup DAB	214050314	1
apomix	Sugar syrup DAB	21A010313	2
apomix	Sugar syrup DAB	21A050314	3
apomix	Sugar syrup DAB	21A090322	2
apomix	Sugar syrup DAB	21A130315	1
apomix	Sugar syrup DAB	21A130320	1
apomix	Sugar syrup DAB	21A160517	2
apomix	Sugar syrup DAB	22A050314	1
apomix	Sugar syrup DAB	22A100419	1
apomix	Sugar syrup DAB	22A140320	4
apomix	Sugar syrup DAB	22A170316	3
apomix	Sugar syrup DAB	23081202	1
apomix	Sugar syrup DAB	23A140320	5
apomix	Sugar syrup DAB	23A14032o	1
apomix	Sugar syrup DAB	23A180316	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Sugar syrup DAB	23A280318	1
apomix	Sugar syrup DAB	23A290517	3
apomix	Sugar syrup DAB	24041801	1
apomix	Sugar syrup DAB	24A110419	2
apomix	Sugar syrup DAB	24A180316	2
apomix	Sugar syrup DAB	24A190320	3
apomix	Sugar syrup DAB	24A280318	1
apomix	Sugar syrup DAB	25A080415	1
apomix	Sugar syrup DAB	25A110313	1
apomix	Sugar syrup DAB	25A170314	1
apomix	Sugar syrup DAB	25A190320	1
apomix	Sugar syrup DAB	25A200412	1
apomix	Sugar syrup DAB	25a310517	1
apomix	Sugar syrup DAB	25A310517	2
apomix	Sugar syrup DAB	26011907	1
apomix	Sugar syrup DAB	26090418	1
apomix	Sugar syrup DAB	26A080415	1
apomix	Sugar syrup DAB	26A09418	1
apomix	Sugar syrup DAB	26A200320	3
apomix	Sugar syrup DAB	27A090418	4
apomix	Sugar syrup DAB	27A110416	3
apomix	Sugar syrup DAB	27A160519	2
apomix	Sugar syrup DAB	27A200313	1
apomix	Sugar syrup DAB	27A200320	1
apomix	Sugar syrup DAB	27A220621	1
apomix	Sugar syrup DAB	28A110416	1
apomix	Sugar syrup DAB	28A270519	3
apomix	Sugar syrup DAB	28A275019	1
apomix	Sugar syrup DAB	29A060721	6
apomix	Sugar syrup DAB	29A130617	2
apomix	Sugar syrup DAB	29A15020	1
apomix	Sugar syrup DAB	29A150420	2
apomix	Sugar syrup DAB	29A190416	1
apomix	Sugar syrup DAB	29A220313	1
apomix	Sugar syrup DAB	2A110122	1
apomix	Sugar syrup DAB	2A130114	1
apomix	Sugar syrup DAB	2A130116	3
apomix	Sugar syrup DAB	2A180121	4
apomix	Sugar syrup DAB	30A150420	3
apomix	Sugar syrup DAB	30A190416	1
apomix	Sugar syrup DAB	30A200415	3
apomix	Sugar syrup DAB	31A030619	4
apomix	Sugar syrup DAB	31A300418	1
apomix	Sugar syrup DAB	32A020719	2
apomix	Sugar syrup DAB	32A080520	1
apomix	Sugar syrup DAB	32A120413	1
apomix	Sugar syrup DAB	32A240415	2
apomix	Sugar syrup DAB	33A020719	1
apomix	Sugar syrup DAB	33A080520	5
apomix	Sugar syrup DAB	33A170516	1
apomix	Sugar syrup DAB	33A190617	1
apomix	Sugar syrup DAB	34A240413	1
apomix	Sugar syrup DAB	34A300518	5
apomix	Sugar syrup DAB	35A070414	1
apomix	Sugar syrup DAB	35a200617	1
apomix	Sugar syrup DAB	35A200617	1
apomix	Sugar syrup DAB	35A250512	1
apomix	Sugar syrup DAB	35A300516	4
apomix	Sugar syrup DAB	35A310518	4
apomix	Sugar syrup DAB	36A140414	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Sugar syrup DAB	36A170719	1
apomix	Sugar syrup DAB	36A200617	7
apomix	Sugar syrup DAB	37A030616	2
apomix	Sugar syrup DAB	37A03616	1
apomix	Sugar syrup DAB	37A220515	1
apomix	Sugar syrup DAB	37A240413	2
apomix	Sugar syrup DAB	38A010618	1
apomix	Sugar syrup DAB	38A030717	1
apomix	Sugar syrup DAB	38A130620	1
apomix	Sugar syrup DAB	38A180719	1
apomix	Sugar syrup DAB	38A180821	1
apomix	Sugar syrup DAB	39A010819	1
apomix	Sugar syrup DAB	39A050614	3
apomix	Sugar syrup DAB	39A260620	2
apomix	Sugar syrup DAB	39A310821	5
apomix	Sugar syrup DAB	3a150116	1
apomix	Sugar syrup DAB	3A150116	2
apomix	Sugar syrup DAB	3A150120	3
apomix	Ipecacuanha syrup (NRF 19.1)	3A170915	1
apomix	Sugar syrup DAB	3A180118	6
apomix	Sugar syrup DAB	3A210119	4
apomix	Sugar syrup DAB	40A010720	1
apomix	Sugar syrup DAB	40A010819	4
apomix	Sugar syrup DAB	40A040618	2
apomix	Sugar syrup DAB	40A290515	2
apomix	Sugar syrup DAB	41A010720	5
apomix	Sugar syrup DAB	41A040716	3
apomix	Sugar syrup DAB	41A120522	1
apomix	Sugar syrup DAB	41A120615	1
apomix	Sugar syrup DAB	41A230513	1
apomix	Sugar syrup DAB	41A310717	1
apomix	Sugar syrup DAB	42A120615	1
apomix	Sugar syrup DAB	43A040613	2
apomix	Sugar syrup DAB	43A070817	1
apomix	Sugar syrup DAB	43A110716	3
apomix	Sugar syrup DAB	43a180618	1
apomix	Sugar syrup DAB	43A180618	2
apomix	Sugar syrup DAB	43A260612	1
apomix	Sugar syrup DAB	44A040718	4
apomix	Sugar syrup DAB	44A050820	1
apomix	Sugar syrup DAB	44A070817	2
apomix	Sugar syrup DAB	44A110716	1
apomix	Sugar syrup DAB	44A220921	1
apomix	Sugar syrup DAB	45A040718	2
apomix	Sugar syrup DAB	45A050613	2
apomix	Sugar syrup DAB	45A050819	2
apomix	Sugar syrup DAB	45A050820	1
apomix	Sugar syrup DAB	45A210817	2
apomix	Sugar syrup DAB	46A030712	1
apomix	Sugar syrup DAB	46A130718	2
apomix	Sugar syrup DAB	46A140819	2
apomix	Sugar syrup DAB	46A180716	3
apomix	Sugar syrup DAB	47A050712	3
apomix	Sugar syrup DAB	47A120613	1
apomix	Sugar syrup DAB	47A130718	1
apomix	Sugar syrup DAB	47A220817	1
apomix	Sugar syrup DAB	48A010715	1
apomix	Sugar syrup DAB	48A160718	2
apomix	Sugar syrup DAB	48A210714	2
apomix	Sugar syrup DAB	49A020715	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Sugar syrup DAB	49A100712	1
apomix	Sugar syrup DAB	49A220714	1
apomix	Sugar syrup DAB	49A290716	4
apomix	Sugar syrup DAB	4A010221	8
apomix	Sugar syrup DAB	50A020715	1
apomix	Sugar syrup DAB	50A030919	3
apomix	Sugar syrup DAB	50A240817	8
apomix	Sugar syrup DAB	50A290716	2
apomix	Sugar syrup DAB	51A010816	1
apomix	Sugar syrup DAB	51A090713	1
apomix	Sugar syrup DAB	51A170718	2
apomix	Sugar syrup DAB	5218Q-02263	1
apomix	Sugar syrup DAB	52A110917	4
apomix	Sugar syrup DAB	53A080920	1
apomix	Sugar syrup DAB	53A120816	3
apomix	Sugar syrup DAB	53A300718	3
apomix	Sugar syrup DAB	54A011020	1
apomix	Sugar syrup DAB	55A011020	5
apomix	Sugar syrup DAB	55A130814	3
apomix	Sugar syrup DAB	55A180712	2
apomix	Sugar syrup DAB	55a220816	1
apomix	Sugar syrup DAB	55A310715	1
apomix	Sugar syrup DAB	56A021020	1
apomix	Sugar syrup DAB	56A041017	1
apomix	Sugar syrup DAB	56A071019	1
apomix	Sugar syrup DAB	56A151221	2
apomix	Sugar syrup DAB	56A160813	1
apomix	Sugar syrup DAB	56A220816	4
apomix	Sugar syrup DAB	56A310715	1
apomix	Sugar syrup DAB	57A131017	1
apomix	Sugar syrup DAB	57A140814	1
apomix	Sugar syrup DAB	57A180816	4
apomix	Sugar syrup DAB	57A260815	2
apomix	Sugar syrup DAB	58A190816	1
apomix	Sugar syrup DAB	58A19816	1
apomix	Sugar syrup DAB	58A260815	1
apomix	Sugar syrup DAB	58A270712	1
apomix	Sugar syrup DAB	59A010914	1
apomix	Sugar syrup DAB	59A030812	1
apomix	Sugar syrup DAB	59A070814	1
apomix	Sugar syrup DAB	59A270815	1
apomix	Sugar syrup DAB	59A290818	3
apomix	Sugar syrup DAB	5A180117	4
apomix	Sugar syrup DAB	5A210113	1
apomix	Sugar syrup DAB	5A220115	1
apomix	Sugar syrup DAB	60A020914	1
apomix	Sugar syrup DAB	60A120916	2
apomix	Sugar syrup DAB	617Q-02263	1
apomix	Sugar syrup DAB	62A190916	6
apomix	Sugar syrup DAB	62A221020	2
apomix	Sugar syrup DAB	62A260918	4
apomix	Sugar syrup DAB	63A061117	5
apomix	Sugar syrup DAB	63A211119	5
apomix	Sugar syrup DAB	63A260916	4
apomix	Sugar syrup DAB	64A050913	1
apomix	Sugar syrup DAB	64A211119	1
apomix	Sugar syrup DAB	65A041016	1
apomix	Sugar syrup DAB	65a141117	1
apomix	Sugar syrup DAB	65A141117	1
apomix	Sugar syrup DAB	66A101018	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Sugar syrup DAB	66A110913	1
apomix	Sugar syrup DAB	66A110913-3442311102	1
apomix	Sugar syrup DAB	66a141117	1
apomix	Sugar syrup DAB	66A141117	3
apomix	Sugar syrup DAB	66A160914	2
apomix	Sugar syrup DAB	66A210912	1
apomix	Sugar syrup DAB	67A101018	2
apomix	Sugar syrup DAB	67A121120	7
apomix	Sugar syrup DAB	67A131016	4
apomix	Sugar syrup DAB	67A231219	9
apomix	Sugar syrup DAB	67A240912	1
apomix	Sugar syrup DAB	67A271117	8
apomix	Sugar syrup DAB	68A121120	4
apomix	Sugar syrup DAB	68A131016	1
apomix	Sugar syrup DAB	68A230914	1
apomix	Sugar syrup DAB	68A231219	2
apomix	Sugar syrup DAB	68A241018	3
apomix	Sugar syrup DAB	68A250915	1
apomix	Sugar syrup DAB	68A281117	1
apomix	Sugar syrup DAB	69A161120	2
apomix	Sugar syrup DAB	69A241018	5
apomix	Sugar syrup DAB	6A020221	1
apomix	Sugar syrup DAB	6A050218	1
apomix	Sugar syrup DAB	70328/4Hk	1
apomix	Sugar syrup DAB	70A051118	1
apomix	Sugar syrup DAB	70A281117	3
apomix	Sugar syrup DAB	71A031116	1
apomix	Sugar syrup DAB	71A091015	5
apomix	Sugar syrup DAB	71A291117	1
apomix	Sugar syrup DAB	72A041116	3
apomix	Sugar syrup DAB	72A081118	2
apomix	Sugar syrup DAB	72A091015	3
apomix	Sugar syrup DAB	72A181120	2
apomix	Sugar syrup DAB	73A101013	1
apomix	Sugar syrup DAB	73A301120	1
apomix	Sugar syrup DAB	74A151015	1
apomix	Sugar syrup DAB	74A151118	1
apomix	Sugar syrup DAB	74A241014	2
apomix	Sugar syrup DAB	75A151118	3
apomix	Sugar syrup DAB	76A061114	1
apomix	Sugar syrup DAB	76A231015	3
apomix	Sugar syrup DAB	76A301012	1
apomix	Sugar syrup DAB	77A261015	1
apomix	Sugar syrup DAB	78A221118	3
apomix	Sugar syrup DAB	79A241116	1
apomix	Sugar syrup DAB	7A230115	2
apomix	Sugar syrup DAB	7A230117	2
apomix	Sugar syrup DAB	7A250116	1
apomix	Sugar syrup DAB	7A270120	3
apomix	Sugar syrup DAB	7A2710120	1
apomix	Sugar syrup DAB	7A310114	1
apomix	Sugar syrup DAB	80A261118	3
apomix	Sugar syrup DAB	81A-081112	1
apomix	Sugar syrup DAB	81A161115	5
apomix	Sugar syrup DAB	81A251114	1
apomix	Sugar syrup DAB	83A151216	2
apomix	Sugar syrup DAB	83A191115	1
apomix	Sugar syrup DAB	84A231216	1
apomix	Sugar syrup DAB	85A191113	1
apomix	Sugar syrup DAB	85A261115	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Sugar syrup DAB	86A051214	1
apomix	Sugar syrup DAB	86A271216	2
apomix	Sugar syrup DAB	87A051214	1
apomix	Sugar syrup DAB	87A071215	1
apomix	Sugar syrup DAB	88A121214	2
apomix	Sugar syrup DAB	88A12124	1
apomix	Sugar syrup DAB	89A111215	1
apomix	Sugar syrup DAB	8A010219	2
apomix	Sugar syrup DAB	8A070218	2
apomix	Sugar syrup DAB	8A230117	2
apomix	Sugar syrup DAB	93A111213	2
apomix	Sugar syrup DAB	93A231214	2
apomix	Sugar syrup DAB	93A271212	1
apomix	Sugar syrup DAB	94A281212	1
apomix	Sugar syrup DAB	95A111213	1
apomix	Sugar syrup DAB	96A161213	1
apomix	Sugar syrup DAB	99A201213	1
apomix	Sugar syrup DAB	9A030214	2
apomix	Sugar syrup DAB	9A250117	1
apomix	Sugar syrup DAB	9A280116	2
apomix	Sugar syrup DAB	9A280120	1
apomix	Sugar syrup DAB	9A290113	1
apomix	Ipecacuanha syrup (NRF 19.1)	O1A090218	1
apomix	Sugar syrup DAB	o9A030214	1
Apommix-Sanacorp	Sugar syrup DAB	51A090713-3399310141	1
Bionorica Ethics	Raspberry syrup (conserved)	1908010-01CH30055811/001	1
Bombastus	Sugar syrup DAB	30A190416	2
Bombastus	Sugar syrup DAB	82A151216	1
Caelo	Marshmallow syrup (conserved)	1(19010003)	1
Caelo	Raspberry syrup (conserved)	1081201	1
Caelo	Cherry syrup (conserved)	109212258	1
Caelo	Raspberry syrup (conserved)	11021405	1
Caelo	Raspberry syrup (conserved)	11031705	1
Caelo	Raspberry syrup (conserved)	1105022-01	1
Caelo	Cherry syrup (conserved)	11168902	1
Caelo	Raspberry syrup (conserved)	11169003	1
Caelo	Sorbitol, liquid (non crysta...	11255613	1
Caelo	Raspberry syrup (conserved)	11291404	1
Caelo	Marshmallow syrup (conserved)	1155101	1
Caelo	Sorbitol, liquid (non crysta...	12/18-N09	1
Caelo	Raspberry syrup (conserved)	12038501	1
Caelo	Raspberry syrup (conserved)	12038502	2
Caelo	Sorbitol, liquid (non crysta...	1207012-01	1
Caelo	Sorbitol, liquid (non crysta...	1207012-02	2
Caelo	Raspberry syrup (conserved)	1210004-01	1
Caelo	Raspberry syrup (conserved)	12121203	1
Caelo	Sorbitol, liquid (non crysta...	12124903	2
Caelo	Sorbitol, liquid (non crysta...	12124906	2
Caelo	Sorbitol, liquid (non crysta...	12124908	2
Caelo	Sorbitol, liquid (non crysta...	12124912	4
Caelo	Sorbitol, liquid (non crysta...	12124914	5
Caelo	Raspberry syrup (conserved)	12161705	4
Caelo	Raspberry syrup (conserved)	12283101	2
Caelo	Raspberry syrup (conserved)	12283103	2
Caelo	Marshmallow syrup (conserved)	12303101	1
Caelo	Marshmallow syrup (conserved)	12303106	2
Caelo	Sugar syrup DAB	123456	1
Caelo	Sorbitol, liquid (non crysta...	123456789	1
Caelo	Ribwort plantain syrup (cons...	12347501	1
Caelo	Ribwort plantain syrup (cons...	12347506	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Cherry syrup (conserved)	12367501	2
Caelo	Raspberry syrup (conserved)	12367602	7
Caelo	Raspberry syrup (conserved)	1302026-01	3
Caelo	Raspberry syrup (conserved)	13051501	1
Caelo	Sorbitol, liquid (non crysta…	13060203	5
Caelo	Sorbitol, liquid (non crysta…	13060204	5
Caelo	Sorbitol, liquid (non crysta…	13060206	2
Caelo	Sorbitol, liquid (non crysta…	13060211	1
Caelo	Sorbitol, liquid (non crysta…	1309026-01	1
Caelo	Sorbitol, liquid (non crysta…	13102003	1
Caelo	Raspberry syrup (conserved)	13122001	10
Caelo	Raspberry syrup (conserved)	13122002	1
Caelo	Raspberry syrup (conserved)	13122003	2
Caelo	Ribwort plantain syrup (cons…	13152304	1
Caelo	Ribwort plantain syrup (cons…	13152305	4
Caelo	Marshmallow syrup (conserved)	13152307	2
Caelo	Ribwort plantain syrup (cons…	13152308	3
Caelo	Fennel honey (conserved)	13152605	1
Caelo	Fennel honey (conserved)	13152606	1
Caelo	Fennel honey (conserved)	13152608	1
Caelo	Cherry syrup (conserved)	13166201	1
Caelo	Raspberry syrup (conserved)	13194301	6
Caelo	Raspberry syrup (conserved)	13194302	1
Caelo	Marshmallow syrup (conserved)	13212908	1
Caelo	Marshmallow syrup (conserved)	13212909	1
Caelo	Marshmallow syrup (conserved)	13212910	1
Caelo	Sorbitol, liquid (non crysta…	13233801	2
Caelo	Sorbitol, liquid (non crysta…	13233803	3
Caelo	Sorbitol, liquid (non crysta…	13233807	4
Caelo	Sorbitol, liquid (non crysta…	13233808	3
Caelo	Sorbitol, liquid (non crysta…	13233810	6
Caelo	Cherry syrup (conserved)	13278301	2
Caelo	Raspberry syrup (conserved)	13338001	10
Caelo	Raspberry syrup (conserved)	13393601	3
Caelo	Raspberry syrup (conserved)	13393602	4
Caelo	Marshmallow syrup (conserved)	13410904	1
Caelo	Marshmallow syrup (conserved)	13410908	1
Caelo	Marshmallow syrup (conserved)	13410909	1
Caelo	Sugar syrup DAB	13A1502216	1
Caelo	Ipecacuanha syrup (NRF 19.1)	13G23-M02	1
Caelo	Sugar syrup DAB	14024001	1
Caelo	Cherry syrup (conserved)	14034502	2
Caelo	Cherry syrup (conserved)	14034503	1
Caelo	Sorbitol, liquid (non crysta…	14034702	1
Caelo	Sorbitol, liquid (non crysta…	14034706	1
Caelo	Raspberry syrup (conserved)	140903901	1
Caelo	Marshmallow syrup (conserved)	14102602	2
Caelo	Raspberry syrup (conserved)	14114302	1
Caelo	Raspberry syrup (conserved)	14114303	3
Caelo	Raspberry syrup (conserved)	14114304	7
Caelo	Raspberry syrup (conserved)	14114305	3
Caelo	Raspberry syrup (conserved)	14114306	1
Caelo	Sorbitol, liquid (non crysta…	1412031-01	1
Caelo	Ribwort plantain syrup (cons…	14125702	2
Caelo	Sorbitol, liquid (non crysta…	14169401	1
Caelo	Sorbitol, liquid (non crysta…	14169403	4
Caelo	Sorbitol, liquid (non crysta…	14169404	1
Caelo	Sorbitol, liquid (non crysta…	14169409	2
Caelo	Sugar syrup DAB	14189101	1
Caelo	Sugar syrup DAB	14189102	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Raspberry syrup (conserved)	14243401	1
Caelo	Raspberry syrup (conserved)	14243403	1
Caelo	Raspberry syrup (conserved)	14243405	4
Caelo	Sugar syrup DAB	14246001	1
Caelo	Sorbitol, liquid (non crysta...	14298101	7
Caelo	Sorbitol, liquid (non crysta...	14298102	3
Caelo	Sorbitol, liquid (non crysta...	14298105	1
Caelo	Sugar syrup DAB	14299801	4
Caelo	Sugar syrup DAB	14337004	1
Caelo	Marshmallow syrup (conserved)	14364803	1
Caelo	Marshmallow syrup (conserved)	14364804	1
Caelo	Marshmallow syrup (conserved)	14364805	1
Caelo	Cherry syrup (conserved)	14371001	1
Caelo	Raspberry syrup (conserved)	14371104	1
Caelo	Raspberry syrup (conserved)	14371105	1
Caelo	Raspberry syrup (conserved)	14371106	1
Caelo	Raspberry syrup (conserved)	14371107	1
Caelo	Raspberry syrup (conserved)	14371108	1
Caelo	Sugar syrup DAB	15049102	1
Caelo	Raspberry syrup (conserved)	15051312	1
Caelo	Raspberry syrup (conserved)	15071302	1
Caelo	Ribwort plantain syrup (cons...	15076003	1
Caelo	Marshmallow syrup (conserved)	15076005	3
Caelo	Sugar syrup DAB	15092001	1
Caelo	Raspberry syrup (conserved)	151102401	1
Caelo	Sugar syrup DAB	15117002	1
Caelo	Raspberry syrup (conserved)	15149201	3
Caelo	Raspberry syrup (conserved)	15149202	3
Caelo	Raspberry syrup (conserved)	15149205	10
Caelo	Cherry syrup (conserved)	15149402	3
Caelo	Sugar syrup DAB	15150602	2
Caelo	Sorbitol, liquid (non crysta...	15159301	6
Caelo	Sorbitol, liquid (non crysta...	15159302	6
Caelo	Sorbitol, liquid (non crysta...	15175301	1
Caelo	Sorbitol, liquid (non crysta...	15175306	3
Caelo	Sorbitol, liquid (non crysta...	15175307	1
Caelo	Sorbitol, liquid (non crysta...	15175309	5
Caelo	Sorbitol, liquid (non crysta...	15175310	3
Caelo	Sorbitol, liquid (non crysta...	15175311	1
Caelo	Sorbitol, liquid (non crysta...	1519302	1
Caelo	Sugar syrup DAB	15315201	2
Caelo	Raspberry syrup (conserved)	15320801	1
Caelo	Raspberry syrup (conserved)	15320803	8
Caelo	Raspberry syrup (conserved)	15320804	1
Caelo	Raspberry syrup (conserved)	15320813	1
Caelo	Sugar syrup DAB	15334802	3
Caelo	Marshmallow syrup (conserved)	15418604	2
Caelo	Marshmallow syrup (conserved)	15418605	3
Caelo	Marshmallow syrup (conserved)	15418606	1
Caelo	Sugar syrup DAB	15427102	6
Caelo	Sorbitol, liquid (non crysta...	15437900	1
Caelo	Sorbitol, liquid (non crysta...	15437906	6
Caelo	Sorbitol, liquid (non crysta...	15437907	4
Caelo	Marshmallow syrup (conserved)	1548604	1
Caelo	Raspberry syrup (conserved)	16003601	14
Caelo	Ribwort plantain syrup (cons...	16029002	2
Caelo	Ribwort plantain syrup (cons...	16029005	1
Caelo	Ribwort plantain syrup (cons...	16029007	1
Caelo	Ribwort plantain syrup (cons...	16029009	8
Caelo	Cherry syrup (conserved)	16029301	7

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Fennel honey (conserved)	16039406	2
Caelo	Marshmallow syrup (conserved)	16077502	3
Caelo	Sorbitol, liquid (non crysta…	16078803	1
Caelo	Sorbitol, liquid (non crysta…	16078806	7
Caelo	Sorbitol, liquid (non crysta…	16078807	1
Caelo	Sorbitol, liquid (non crysta…	16078808	1
Caelo	Sorbitol, liquid (non crysta…	16078810	8
Caelo	Sorbitol, liquid (non crysta…	16078811	1
Caelo	Sorbitol, liquid (non crysta…	16078814	1
Caelo	Raspberry syrup (conserved)	1608003-01	2
Caelo	Sugar syrup DAB	16091501	6
Caelo	Raspberry syrup (conserved)	161002601	1
Caelo	Marshmallow syrup (conserved)	16123301	1
Caelo	Marshmallow syrup (conserved)	16123305	1
Caelo	Raspberry syrup (conserved)	1615101	1
Caelo	Raspberry syrup (conserved)	16151601	11
Caelo	Sugar syrup DAB	161879	1
Caelo	Sugar syrup DAB	16187902	6
Caelo	Cherry syrup (conserved)	16195502	1
Caelo	Marshmallow syrup (conserved)	16213606	2
Caelo	Marshmallow syrup (conserved)	16213607	1
Caelo	Sugar syrup DAB	162140	1
Caelo	Sugar syrup DAB	16214002	5
Caelo	Sugar syrup DAB	16214101	7
Caelo	Ribwort plantain syrup (cons…	16335301	1
Caelo	Cherry syrup (conserved)	1634503	1
Caelo	Cherry syrup (conserved)	16345301	3
Caelo	Raspberry syrup (conserved)	16345401	5
Caelo	Raspberry syrup (conserved)	16345404	5
Caelo	Sugar syrup DAB	16345602	1
Caelo	Sugar syrup DAB	16345701	5
Caelo	Sorbitol, liquid (non crysta…	1702011-01	1
Caelo	Sorbitol, liquid (non crysta…	1702011-02	3
Caelo	Sorbitol, liquid (non crysta…	17027005	12
Caelo	Sorbitol, liquid (non crysta…	17027006	1
Caelo	Sorbitol, liquid (non crysta…	17027010	11
Caelo	Sorbitol, liquid (non crysta…	17027011	2
Caelo	Sorbitol, liquid (non crysta…	17027014	2
Caelo	Sugar syrup DAB	17028002	9
Caelo	Raspberry syrup (conserved)	17101202	1
Caelo	Raspberry syrup (conserved)	17111805	1
Caelo	Raspberry syrup (conserved)	1712004-01	1
Caelo	Marshmallow syrup (conserved)	17128301	1
Caelo	Marshmallow syrup (conserved)	17128309	1
Caelo	Raspberry syrup (conserved)	17128402	3
Caelo	Raspberry syrup (conserved)	17128404	13
Caelo	Raspberry syrup (conserved)	17128405	3
Caelo	Sugar syrup DAB	17129001	5
Caelo	Sugar syrup DAB	17129101	2
Caelo	Sugar syrup DAB	17129301	10
Caelo	Sugar syrup DAB	17200501	2
Caelo	Marshmallow syrup (conserved)	17249902	1
Caelo	Marshmallow syrup (conserved)	17249903	3
Caelo	Marshmallow syrup (conserved)	17249904	1
Caelo	Marshmallow syrup (conserved)	17249907	4
Caelo	Sugar syrup DAB	17260101	4
Caelo	Sugar syrup DAB	17275702	6
Caelo	Sorbitol, liquid (non crysta…	1730401	1
Caelo	Sugar syrup DAB	17304301	2
Caelo	Sugar syrup DAB	17304302	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Sorbitol, liquid (non crysta…	17305401	24
Caelo	Sorbitol, liquid (non crysta…	17305403	3
Caelo	Sorbitol, liquid (non crysta…	17305406	7
Caelo	Sorbitol, liquid (non crysta…	17305409	12
Caelo	Sorbitol, liquid (non crysta…	17305412	11
Caelo	Sorbitol, liquid (non crysta…	17305413	2
Caelo	Cherry syrup (conserved)	17351101	3
Caelo	Marshmallow syrup (conserved)	17357502	2
Caelo	Marshmallow syrup (conserved)	17357505	4
Caelo	Sugar syrup DAB	17A240417	1
Caelo	Raspberry syrup (conserved)	1803009-01	2
Caelo	Sugar syrup DAB	18032801	5
Caelo	Sugar syrup DAB	18033002	7
Caelo	Sugar syrup DAB	18033401	10
Caelo	Sorbitol, liquid (non crysta…	1804019-01	3
Caelo	Sorbitol, liquid (non crysta…	1804019-02	3
Caelo	Sorbitol, liquid (non crysta…	18062004	1
Caelo	Ribwort plantain syrup (cons…	18078901	2
Caelo	Cherry syrup (conserved)	18080202	3
Caelo	Cherry syrup (conserved)	18080205	2
Caelo	Sugar syrup DAB	18095601	10
Caelo	Sugar syrup DAB	18095701	2
Caelo	Raspberry syrup (conserved)	180967003	1
Caelo	Raspberry syrup (conserved)	18096701	21
Caelo	Raspberry syrup (conserved)	18096703	4
Caelo	Raspberry syrup (conserved)	18111308	1
Caelo	Raspberry syrup (conserved)	18121706	1
Caelo	Sugar syrup DAB	18130001	9
Caelo	Marshmallow syrup (conserved)	18155101	3
Caelo	Marshmallow syrup (conserved)	18155104	3
Caelo	Marshmallow syrup (conserved)	18155105	5
Caelo	Marshmallow syrup (conserved)	18155106	2
Caelo	Sugar syrup DAB	18175701	4
Caelo	Sugar syrup DAB	18189801	3
Caelo	Raspberry syrup (conserved)	18190901	14
Caelo	Raspberry syrup (conserved)	18190903	11
Caelo	Raspberry syrup (conserved)	18190905	5
Caelo	Sugar syrup DAB	182278001	1
Caelo	Sugar syrup DAB	18227801	3
Caelo	Sugar syrup DAB	18247503	3
Caelo	Sugar syrup DAB	18247601	1
Caelo	Sugar syrup DAB	18247602	5
Caelo	Ribwort plantain syrup (cons…	18289801	11
Caelo	Ribwort plantain syrup (cons…	18289803	6
Caelo	Sugar syrup DAB	18296401	6
Caelo	Sugar syrup DAB	18296402	1
Caelo	Sugar syrup DAB	1829642	1
Caelo	Sugar syrup DAB	18296501	5
Caelo	Sugar syrup DAB	18296502	2
Caelo	Sorbitol, liquid (non crysta…	18322001	23
Caelo	Sorbitol, liquid (non crysta…	18322002	5
Caelo	Sorbitol, liquid (non crysta…	18322005	11
Caelo	Sorbitol, liquid (non crysta…	18322006	2
Caelo	Sorbitol, liquid (non crysta…	1832202	1
Caelo	Sorbitol, liquid (non crysta…	19(17027010)	1
Caelo	Sugar syrup DAB	19000457001	11
Caelo	Sugar syrup DAB	19000475001	1
Caelo	Marshmallow syrup (conserved)	19000641002	4
Caelo	Sugar syrup DAB	19000841001	9
Caelo	Sugar syrup DAB	19000842001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Raspberry syrup (conserved)	19009801	20
Caelo	Raspberry syrup (conserved)	19009802	1
Caelo	Raspberry syrup (conserved)	19009803	6
Caelo	Marshmallow syrup (conserved)	19010003	1
Caelo	Marshmallow syrup (conserved)	19010005	1
Caelo	Marshmallow syrup (conserved)	19010012	7
Caelo	Sugar syrup DAB	19010402	5
Caelo	Sugar syrup DAB	19010602	5
Caelo	Marshmallow syrup (conserved)	190110005	1
Caelo	Marshmallow syrup (conserved)	190110010	2
Caelo	Sorbitol, liquid (non crysta…	19022301	3
Caelo	Sorbitol, liquid (non crysta…	19022302	10
Caelo	Sugar syrup DAB	19050701	5
Caelo	Fennel honey (conserved)	190514001	1
Caelo	Fennel honey (conserved)	19051402	5
Caelo	Fennel honey (conserved)	19051403	1
Caelo	Sugar syrup DAB	19085001	7
Caelo	Sugar syrup DAB	19085101	5
Caelo	Sugar syrup DAB	19085102	2
Caelo	Sugar syrup DAB	191132001	1
Caelo	Sugar syrup DAB	19131801	3
Caelo	Sugar syrup DAB	19131901	3
Caelo	Sugar syrup DAB	19132001	11
Caelo	Ribwort plantain syrup (cons…	191483002	4
Caelo	Ribwort plantain syrup (cons…	19148301	5
Caelo	Raspberry syrup (conserved)	19153301	15
Caelo	Sorbitol, liquid (non crysta…	19163403	8
Caelo	Sorbitol, liquid (non crysta…	19163404	3
Caelo	Cherry syrup (conserved)	191806002	1
Caelo	Cherry syrup (conserved)	19180601	3
Caelo	Marshmallow syrup (conserved)	19218101	1
Caelo	Marshmallow syrup (conserved)	19218102	3
Caelo	Sugar syrup DAB	19225101	3
Caelo	Sorbitol, liquid (non crysta…	19234201	16
Caelo	Sorbitol, liquid (non crysta…	19234202	9
Caelo	Sugar syrup DAB	19234701	3
Caelo	Sugar syrup DAB	19234702	2
Caelo	Sugar syrup DAB	19234801	2
Caelo	Raspberry syrup (conserved)	192390004	1
Caelo	Raspberry syrup (conserved)	192399003	19
Caelo	Raspberry syrup (conserved)	192399004	14
Caelo	Sorbitol, liquid (non crysta…	19322001	1
Caelo	Raspberry syrup (conserved)	1953301	1
Caelo	Sorbitol, liquid (non crysta…	20(17305409)	1
Caelo	Cherry syrup (conserved)	20000134003	1
Caelo	Raspberry syrup (conserved)	20000558001	1
Caelo	Raspberry syrup (conserved)	20000558002	11
Caelo	Sorbitol, liquid (non crysta…	20000571002	1
Caelo	Sorbitol, liquid (non crysta…	20000571003	11
Caelo	Sorbitol, liquid (non crysta…	20000571005	2
Caelo	Sorbitol, liquid (non crysta…	20000571007	14
Caelo	Sugar syrup DAB	20000600001	2
Caelo	Sugar syrup DAB	20000601001	1
Caelo	Ribwort plantain syrup (cons…	20001180002	2
Caelo	Ribwort plantain syrup (cons…	20001180005	1
Caelo	Sugar syrup DAB	20001505001	2
Caelo	Sugar syrup DAB	20001506001	4
Caelo	Sugar syrup DAB	20001848001	2
Caelo	Sugar syrup DAB	20001849001	3
Caelo	Sugar syrup DAB	20002430002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Raspberry syrup (conserved)	2000264003	1
Caelo	Raspberry syrup (conserved)	20002644002	1
Caelo	Raspberry syrup (conserved)	20002644003	6
Caelo	Sugar syrup DAB	20003010001	1
Caelo	Sugar syrup DAB	20003012001	4
Caelo	Ribwort plantain syrup (cons...	20003416001	1
Caelo	Sugar syrup DAB	20003766001	1
Caelo	Sugar syrup DAB	20003767001	3
Caelo	Sugar syrup DAB	2001505001	1
Caelo	Sorbitol, liquid (non crysta...	2003063-02	1
Caelo	Sorbitol, liquid (non crysta...	2071305	1
Caelo	Sugar syrup DAB	20A120318	1
Caelo	Sugar syrup DAB	20A270215	2
Caelo	Sugar syrup DAB	21000066001	2
Caelo	Sugar syrup DAB	21000067001	2
Caelo	Sorbitol, liquid (non crysta...	21000097003	15
Caelo	Sorbitol, liquid (non crysta...	21000097004	2
Caelo	Raspberry syrup (conserved)	21000519002	9
Caelo	Sugar syrup DAB	21000931001	7
Caelo	Sorbitol, liquid (non crysta...	21000976005	3
Caelo	Sorbitol, liquid (non crysta...	21000976008	1
Caelo	Sorbitol, liquid (non crysta...	21000976012	4
Caelo	Marshmallow syrup (conserved)	21001213003	1
Caelo	Marshmallow syrup (conserved)	21001213004	3
Caelo	Marshmallow syrup (conserved)	21001213008	1
Caelo	Sugar syrup DAB	21001532001	1
Caelo	Sugar syrup DAB	21002020001	2
Caelo	Sugar syrup DAB	21002898002	2
Caelo	Sorbitol, liquid (non crysta...	21003914005	3
Caelo	Sorbitol, liquid (non crysta...	21041803	1
Caelo	Sugar syrup DAB	21A010313	1
Caelo	Sugar syrup DAB	21A170316	1
Caelo	Marshmallow syrup (conserved)	22000123002	1
Caelo	Sugar syrup DAB	22000464001	1
Caelo	Sugar syrup DAB	22000465001	1
Caelo	Sorbitol, liquid (non crysta...	22011306	1
Caelo	Raspberry syrup (conserved)	220523(22000543003)	1
Caelo	Sugar syrup DAB	22A130315	2
Caelo	Sugar syrup DAB	23A180316	1
Caelo	Raspberry syrup (conserved)	24061707	1
Caelo	Raspberry syrup (conserved)	24071802	1
Caelo	Raspberry syrup (conserved)	24081201	1
Caelo	Raspberry syrup (conserved)	24091302	1
Caelo	Raspberry syrup (conserved)	249(CH30045626/001)	1
Caelo	Sorbitol, liquid (non crysta...	25021706	1
Caelo	Sorbitol, liquid (non crysta...	26071209	1
Caelo	Sorbitol, liquid (non crysta...	28081301	1
Caelo	Sugar syrup DAB	28A110418	1
Caelo	Sugar syrup DAB	29A130617	1
Caelo	Raspberry syrup (conserved)	2x13122001	1
Caelo	Raspberry syrup (conserved)	3011301	1
Caelo	Sorbitol, liquid (non crysta...	3031404	1
Caelo	Sugar syrup DAB	30A190416	1
Caelo	Raspberry syrup (conserved)	3121404	1
Caelo	Sorbitol, liquid (non crysta...	3274	2
Caelo	Sorbitol, liquid (non crysta...	330401S70	1
Caelo	Sugar syrup DAB	33A190617	1
Caelo	Sugar syrup DAB	35A200317	1
Caelo	Sugar syrup DAB	35A300516	2
Caelo	Sugar syrup DAB	38A190514	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Raspberry syrup (conserved)	3961/V07/14	1
Caelo	Raspberry syrup (conserved)	4071203	1
Caelo	Raspberry syrup (conserved)	4101405	1
Caelo	Sugar syrup DAB	41A040716	1
Caelo	Sugar syrup DAB	42A050618	1
Caelo	Sugar syrup DAB	42A120615	1
Caelo	Sugar syrup DAB	44A050613	1
Caelo	Sugar syrup DAB	48A220716	1
Caelo	Raspberry syrup (conserved)	5021510	1
Caelo	Sugar syrup DAB	51A070814	1
Caelo	Sugar syrup DAB	51A170718	1
Caelo	Sugar syrup DAB	53A120816	2
Caelo	Sugar syrup DAB	55A011020	2
Caelo	Sugar syrup DAB	58A270712	1
Caelo	Sugar syrup DAB	59a290818	1
Caelo	Sugar syrup DAB	59A290818	2
Caelo	Sugar syrup DAB	5A240118	1
Caelo	Sugar syrup DAB	66A101018	1
Caelo	Sugar syrup DAB	6A050218	1
Caelo	Raspberry syrup (conserved)	7051802	1
Caelo	Raspberry syrup (conserved)	7091702	1
Caelo	Sugar syrup DAB	76A171013	1
Caelo	Sugar syrup DAB	77A061114	1
Caelo	Sugar syrup DAB	79A241116	1
Caelo	Sugar syrup DAB	79A281013	2
Caelo	Raspberry syrup (conserved)	8021301	1
Caelo	Sorbitol, liquid (non crysta...	8051306	1
Caelo	Sugar syrup DAB	81A-251114	1
Caelo	Sorbitol, liquid (non crysta...	8322001	1
Caelo	Sugar syrup DAB	8A010219	1
Caelo	Raspberry syrup (conserved)	9153301	1
Caelo	Sugar syrup DAB	93A231214	1
Caelo	Sugar syrup DAB	9A280116	3
Caelo	Raspberry syrup (conserved)	CH-B1810021-01	1
Caelo	Sorbitol, liquid (non crysta...	E77P	1
Caeolo/Sanacorp	Sugar syrup DAB	5A240118	1
Caesar & Lorenz GmbH	Sorbitol, liquid (non crysta...	17027010	1
Caesar & Loretz GmbH / ...	Sugar syrup DAB	17028002	2
Caesar & Loretz GmbH / ...	Sugar syrup DAB	20001849001	2
Caesar & Loretz GmbH / ...	Sorbitol, liquid (non crysta...	18322001	1
Caesar & Loretz GmbH, P...	Raspberry syrup (conserved)	20002644003	1
Caesar & Loretz GmbH/ G...	Raspberry syrup (conserved)	20002644003	1
Caesar & Loretz GmbH/ P...	Raspberry syrup (conserved)	19009803	1
Caesar & Loretz GmbH/AHD	Sorbitol, liquid (non crysta...	21000097003	1
Caesar & Loretz GmbH/All	Raspberry syrup (conserved)	20000558002	1
Caesar & Loretz GmbH/Al...	Raspberry syrup (conserved)	19153301	1
Caesar & Loretz GmbH/Fi...	Sorbitol, liquid (non crysta...	19234201	1
Caesar & Loretz GmbH/Fi...	Sorbitol, liquid (non crysta...	20000571003	1
Caesar & Loretz GmbH/Fi...	Sorbitol, liquid (non crysta...	20000571007	1
Caesar & Loretz GmbH/Fi...	Raspberry syrup (conserved)	20002644003	1
Caesar & Loretz GmbH/Fi...	Sugar syrup DAB	20003012001	1
Caesar & Loretz GmbH/Gehe	Raspberry syrup (conserved)	192399003	2
Caesar & Loretz GmbH/Gehe	Sugar syrup DAB	21000931001	1
Caesar & Loretz GmbH/Je...	Sorbitol, liquid (non crysta...	21000976005	1
Caesar & Loretz GmbH/No...	Sorbitol, liquid (non crysta...	19022302	1
Caesar & Loretz GmbH/No...	Sugar syrup DAB	19131901	1
Caesar & Loretz GmbH/No...	Raspberry syrup (conserved)	19153301	1
Caesar & Loretz GmbH/No...	Sugar syrup DAB	19234702	1
Caesar & Loretz GmbH/No...	Sugar syrup DAB	21001532001	1
Caesar & Loretz GmbH/Ph...	Raspberry syrup (conserved)	20000558002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Sa...	Sorbitol, liquid (non crysta...	19163403	1
Caesar & Loretz GmbH/Sa...	Sugar syrup DAB	19234702	1
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	14298101	1
Caesar & Loretz GmbH	Cherry syrup (conserved)	18080202	1
Caesar & Loretz GmbH	Raspberry syrup (conserved)	18096701	4
Caesar & Loretz GmbH	Raspberry syrup (conserved)	18190901	3
Caesar & Loretz GmbH	Raspberry syrup (conserved)	18190903	3
Caesar & Loretz GmbH	Raspberry syrup (conserved)	18190905	4
Caesar & Loretz GmbH	Sugar syrup DAB	18296402	1
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	18322001	1
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	18322005	3
Caesar & Loretz GmbH	Sugar syrup DAB	19000842001	3
Caesar & Loretz GmbH	Raspberry syrup (conserved)	19009801	10
Caesar & Loretz GmbH	Raspberry syrup (conserved)	19009803	5
Caesar & Loretz GmbH	Marshmallow syrup (conserved)	19010003	1
Caesar & Loretz GmbH	Sugar syrup DAB	19010402	3
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	19022302	3
Caesar & Loretz GmbH	Sugar syrup DAB	19050701	1
Caesar & Loretz GmbH	Sugar syrup DAB	19085001	4
Caesar & Loretz GmbH	Sugar syrup DAB	19085102	1
Caesar & Loretz GmbH	Sugar syrup DAB	19132001	1
Caesar & Loretz GmbH	Raspberry syrup (conserved)	19153301	12
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	19163403	2
Caesar & Loretz GmbH	Cherry syrup (conserved)	191806002	2
Caesar & Loretz GmbH	Cherry syrup (conserved)	19180601	3
Caesar & Loretz GmbH	Sugar syrup DAB	19225101	5
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	19234201	5
Caesar & Loretz GmbH	Sugar syrup DAB	19234701	1
Caesar & Loretz GmbH	Sugar syrup DAB	19234702	1
Caesar & Loretz GmbH	Sugar syrup DAB	19234801	2
Caesar & Loretz GmbH	Raspberry syrup (conserved)	192399003	1
Caesar & Loretz GmbH	Raspberry syrup (conserved)	192399004	3
Caesar & Loretz GmbH	Cherry syrup (conserved)	20000134003	1
Caesar & Loretz GmbH	Cherry syrup (conserved)	20000134006	1
Caesar & Loretz GmbH	Raspberry syrup (conserved)	20000558002	7
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	20000571002	2
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	20000571003	11
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	20000571005	3
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	20000571007	3
Caesar & Loretz GmbH	Sugar syrup DAB	20000600001	2
Caesar & Loretz GmbH	Sugar syrup DAB	20001849001	1
Caesar & Loretz GmbH	Sugar syrup DAB	20003010001	1
Caesar & Loretz GmbH	Sugar syrup DAB	20003012001	2
Caesar & Loretz GmbH	Sugar syrup DAB	20003767001	1
Caesar & Loretz GmbH	Sugar syrup DAB	21000067001	2
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	21000097003	2
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	21000097004	1
Caesar & Loretz GmbH	Raspberry syrup (conserved)	21000519002	2
CAESAR & LORETZ GMBH	Raspberry syrup (conserved)	21000519002	1
Caesar & Loretz GmbH	Sugar syrup DAB	21000931001	1
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	21000976005	2
CAESAR & LORETZ GMBH	Sorbitol, liquid (non crysta...	21000976008	2
Caesar & Loretz GmbH	Sorbitol, liquid (non crysta...	21000976012	1
Caesar & Loretz GmbH	Sugar syrup DAB	21002664001	1
Caesar & Loretz GmbH	Sugar syrup DAB	22000464001	3
Caesar & Loretz GmbH	Sugar syrup DAB	86A051214	1
Caesar & Loretz Hilden	Sorbitol, liquid (non crysta...	18322001	1
Caesar & Loretz Hilden	Sorbitol, liquid (non crysta...	19234201	1
Caesar & Loretz/ Caesar...	Raspberry syrup (conserved)	17128409	1
Caesar & Loretz/ Caesar...	Raspberry syrup (conserved)	18080601	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz/ Noweda	Raspberry syrup (conserved)	13122003	1
Caesar & Loretz/ Noweda	Raspberry syrup (conserved)	18096702	1
Caesar & Loretz/Noweda	Raspberry syrup (conserved)	16151603	1
Caesar & Loretz/Noweda	Sugar syrup DAB	21000931001	1
Caesar & Loretz	Raspberry syrup (conserved)	15149203	1
Caesar & Loretz	Raspberry syrup (conserved)	16345403	3
Caesar u Loretz	Sorbitol, liquid (non crysta...	13060206	1
Caesar&Loretz	Raspberry syrup (conserved)	15320801	1
Caesar&Loretz	Raspberry syrup (conserved)	15320804	1
Caesar&Loretz	Raspberry syrup (conserved)	16003602	1
Caesar&Loretz	Raspberry syrup (conserved)	16151602	2
Caleo	Sugar syrup DAB	17260101	1
Cealo/ Noweda	Raspberry syrup (conserved)	1712004-01	1
Cealo	Raspberry syrup (conserved)	15149202	3
Cordes/AHD	Sorbitol, liquid (non crysta...	19234201	1
Dr. Wolff	Raspberry syrup (conserved)	1310016-01	1
Eurho / Sanacorp	Raspberry syrup (conserved)	1110025-01	2
Eurho / Sanacorp	Raspberry syrup (conserved)	1302026-01	2
EuRho /Gehe	Sorbitol, liquid (non crysta...	1309026-02	1
EuRho 12.2.14	Sorbitol, liquid (non crysta...	1309026-01	1
EuRho Anzag	Raspberry syrup (conserved)	1210004-01	1
EuRho/ Anzag	Raspberry syrup (conserved)	253(1901049-01)	1
EuRho/Phoenix	Sorbitol, liquid (non crysta...	1804019-02	1
Eurho/Phönix	Raspberry syrup (conserved)	1409039-01	1
EuRho/Phönix	Sorbitol, liquid (non crysta...	1412031-02	1
EuRho/Sanacorp	Raspberry syrup (conserved)	1302026-01	1
EuRho	Raspberry syrup (conserved)	1205001-01	3
EuRho	Sorbitol, liquid (non crysta...	1207012-02	1
EuRho	Sorbitol, liquid (non crysta...	1309026-02	1
EuRho	Raspberry syrup (conserved)	1603007-01	1
EuRho	Sorbitol, liquid (non crysta...	1604020-02	1
EuRho	Sorbitol, liquid (non crysta...	2003063-01	1
EuRho	Raspberry syrup (conserved)	2010023-01	1
Euro OCT / Noveda	Sorbitol, liquid (non crysta...	2003010-01	1
Euro OTC	Raspberry syrup (conserved)		1
Euro OTC	Sorbitol, liquid (non crysta...	1102001-02	1
Euro OTC	Raspberry syrup (conserved)	11081402	1
Euro OTC	Raspberry syrup (conserved)	1205001-01	4
Euro OTC	Sorbitol, liquid (non crysta...	1207012-01	4
Euro OTC	Sorbitol, liquid (non crysta...	1207012-02	3
Euro OTC	Raspberry syrup (conserved)	121000401	1
Euro OTC	Raspberry syrup (conserved)	1210004-01	14
Euro OTC	Raspberry syrup (conserved)	1302023-01	2
Euro OTC	Raspberry syrup (conserved)	1302026-01	1
Euro OTC	Raspberry syrup (conserved)	1302026-01-335031904	1
Euro OTC	Raspberry syrup (conserved)	1306006-01	2
Euro OTC	Sorbitol, liquid (non crysta...	1309026-01	4
Euro OTC	Sorbitol, liquid (non crysta...	130902602	1
Euro OTC	Sorbitol, liquid (non crysta...	1309026-02	5
Euro OTC	Raspberry syrup (conserved)	1310016-01	9
Euro OTC	Raspberry syrup (conserved)	13802025-01	1
Euro OTC	Sugar syrup DAB	13A150216	1
Euro OTC	Raspberry syrup (conserved)	140300201	1
Euro OTC	Raspberry syrup (conserved)	1406031-01	5
Euro OTC	Sorbitol, liquid (non crysta...	141203101	1
Euro OTC	Sorbitol, liquid (non crysta...	1412031-01	10
Euro OTC	Sorbitol, liquid (non crysta...	1412031-02	5
Euro OTC	Raspberry syrup (conserved)	1501011-01	1
Euro OTC	Raspberry syrup (conserved)	1504011-01	3
Euro OTC	Raspberry syrup (conserved)	1508015-01	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Raspberry syrup (conserved)	1511023-01	1
Euro OTC	Raspberry syrup (conserved)	1511024-01	6
Euro OTC	Sorbitol, liquid (non crysta...	15437906	1
Euro OTC	Raspberry syrup (conserved)	1603007-01	11
Euro OTC	Sorbitol, liquid (non crysta...	1604020-01	9
Euro OTC	Sorbitol, liquid (non crysta...	1604020-02	2
Euro OTC	Sorbitol, liquid (non crysta...	1604020-03	3
Euro OTC	Raspberry syrup (conserved)	160500801	1
Euro OTC	Raspberry syrup (conserved)	1605008-01	10
Euro OTC	Raspberry syrup (conserved)	160508-01	1
Euro OTC	Raspberry syrup (conserved)	1608003-01	6
Euro OTC	Sugar syrup DAB	1610008-01	2
Euro OTC	Raspberry syrup (conserved)	1610026-01	5
Euro OTC	Raspberry syrup (conserved)	170102201	3
Euro OTC	Raspberry syrup (conserved)	1701022-01	5
Euro OTC	Raspberry syrup (conserved)	1701022-02	1
Euro OTC	Sorbitol, liquid (non crysta...	1702011-01	5
Euro OTC	Sorbitol, liquid (non crysta...	170201102	1
Euro OTC	Sorbitol, liquid (non crysta...	1702011-02	10
Euro OTC	Raspberry syrup (conserved)	1705037-01	15
Euro OTC	Raspberry syrup (conserved)	1709003-01	9
Euro OTC	Raspberry syrup (conserved)	1709004-01	1
Euro OTC	Raspberry syrup (conserved)	171200401	1
Euro OTC	Raspberry syrup (conserved)	1712004-01	15
Euro OTC	Raspberry syrup (conserved)	180300901	2
Euro OTC	Raspberry syrup (conserved)	1803009-01	9
Euro OTC	Sugar syrup DAB	18033401	1
Euro OTC	Sorbitol, liquid (non crysta...	1804018-01	1
Euro OTC	Sorbitol, liquid (non crysta...	180401901	1
Euro OTC	Sorbitol, liquid (non crysta...	1804019-01	18
Euro OTC	Sorbitol, liquid (non crysta...	1804019-02	15
Euro OTC	Raspberry syrup (conserved)	180702601	1
Euro OTC	Raspberry syrup (conserved)	1807026-01	14
Euro OTC	Raspberry syrup (conserved)	1807026-1	2
Euro OTC	Raspberry syrup (conserved)	1810021-01	10
Euro OTC	Raspberry syrup (conserved)	181021-01	1
Euro OTC	Sorbitol, liquid (non crysta...	18322001	1
Euro OTC	Raspberry syrup (conserved)	190104901	1
Euro OTC	Raspberry syrup (conserved)	1901049-01	16
Euro OTC	Sorbitol, liquid (non crysta...	19050-01	1
Euro OTC	Sorbitol, liquid (non crysta...	190501001	1
Euro OTC	Sorbitol, liquid (non crysta...	1905010-01	19
Euro OTC	Sorbitol, liquid (non crysta...	1905010-02	8
Euro OTC	Raspberry syrup (conserved)	190801001	1
Euro OTC	Raspberry syrup (conserved)	1908010-01	12
Euro OTC	Raspberry syrup (conserved)	191049-01	1
Euro OTC	Sorbitol, liquid (non crysta...	195010-02	1
Euro OTC	Sorbitol, liquid (non crysta...	20003063-02	1
Euro OTC	Sorbitol, liquid (non crysta...	2003010-01	25
Euro OTC	Sorbitol, liquid (non crysta...	2003062-01	1
Euro OTC	Sorbitol, liquid (non crysta...	200306301	1
Euro OTC	Sorbitol, liquid (non crysta...	2003063-01	18
Euro OTC	Sorbitol, liquid (non crysta...	200306302	1
Euro OTC	Sorbitol, liquid (non crysta...	2003063-02	13
Euro OTC	Raspberry syrup (conserved)	2003067	1
Euro OTC	Raspberry syrup (conserved)	2003067-01	10
Euro OTC	Raspberry syrup (conserved)	201002301	1
Euro OTC	Raspberry syrup (conserved)	2010023-01	8
Euro OTC	Sorbitol, liquid (non crysta...	203063-02	1
Euro OTC	Sorbitol, liquid (non crysta...	21041804	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Raspberry syrup (conserved)	2108008-01	3
Euro OTC	Raspberry syrup (conserved)	211029	1
Euro OTC	Sorbitol, liquid (non crysta…	2204017-01	1
Euro OTC	Raspberry syrup (conserved)	250(1807026-01)	1
Euro OTC	Raspberry syrup (conserved)	251(1807026-01)	1
Euro OTC	Raspberry syrup (conserved)	252(1310021-01)	1
Euro OTC	Raspberry syrup (conserved)	255(2010023-01)	1
Euro OTC	Sugar syrup DAB	28A010617	7
Euro OTC	Raspberry syrup (conserved)	300052900/001	1
Euro OTC	Raspberry syrup (conserved)	30039701/001	1
Euro OTC	Sugar syrup DAB	80A061115	1
Euro OTC	Sugar syrup DAB	86A271216	1
Euro OTC	Raspberry syrup (conserved)	953/001	1
Euro OTC	Raspberry syrup (conserved)	CH30041714/001	1
Euro OTC	Raspberry syrup (conserved)	CH30052900/001	1
Euro OTC	Sorbitol, liquid (non crysta…	E415T	2
Euro OTC	Sorbitol, liquid (non crysta…	E807Q	1
Euro pharma /Phönix	Raspberry syrup (conserved)	1908010-01	1
Euro pharma /Phönix	Raspberry syrup (conserved)	2003067-01	2
Euro/Noweda	Sorbitol, liquid (non crysta…	170201102	1
Euro/Sanacorp	Sorbitol, liquid (non crysta…	18419-01	1
EurRho/Fiebig	Raspberry syrup (conserved)	1511023-01	2
Fagron	Ipecacuanha syrup (NRF 19.1)	11B10-M01	1
Fagron	Sorbitol, liquid (non crysta…	11G18-N14	1
Fagron	Sorbitol, liquid (non crysta…	12E08-N09	1
Fagron	Sugar syrup DAB	13089R	1
Fagron	Sorbitol, liquid (non crysta…	139026	1
Fagron	Sorbitol, liquid (non crysta…	13E24-B01	2
Fagron	Ipecacuanha syrup (NRF 19.1)	13G23-M02	1
Fagron	Sorbitol, liquid (non crysta…	13J04-B01-289676	1
Fagron	Ipecacuanha syrup (NRF 19.1)	14D17-M01	1
Fagron	Raspberry syrup (conserved)	1501011-01	1
Fagron	Ipecacuanha syrup (NRF 19.1)	15C11-M08	3
Fagron	Sorbitol, liquid (non crysta…	16078810	1
Fagron	Raspberry syrup (conserved)	16345404	1
Fagron	Sorbitol, liquid (non crysta…	16G06-B08	1
Fagron	Sorbitol, liquid (non crysta…	17D25-B09-345911	1
Fagron	Raspberry syrup (conserved)	1908010-01	1
Fagron	Sorbitol, liquid (non crysta…	2013M-02299	1
Fagron	Sorbitol, liquid (non crysta…	20D06-F03	1
Fagron	Sorbitol, liquid (non crysta…	21081406	1
Fagron	Sorbitol, liquid (non crysta…	23021702	1
Fagron	Sorbitol, liquid (non crysta…	26081708	1
Fagron	Sorbitol, liquid (non crysta…	29081505	1
Fagron	Sorbitol, liquid (non crysta…	3041801	1
Fagron	Sorbitol, liquid (non crysta…	3396	1
Fagron	Sugar syrup DAB	38A250413	1
Fagron	Sorbitol, liquid (non crysta…	3918M-02299	1
Fagron	Ipecacuanha syrup (NRF 19.1)	3A170915	3
Fagron	Sorbitol, liquid (non crysta…	4117I-02299	1
Fagron	Sorbitol, liquid (non crysta…	4216Q-02299	1
Fagron	Sorbitol, liquid (non crysta…	F03-3706705	1
Fagron	Sorbitol, liquid (non crysta…	T05-0938903	1
Fiebig/Europharm	Raspberry syrup (conserved)	1610026-01	1
Fiebig/Europharm	Raspberry syrup (conserved)	1701022-01	10
Fiebig	Sugar syrup DAB	30A190416	3
Fiebig	Sugar syrup DAB	64A260916	5
GEHE 07.02.2019	Sugar syrup DAB	18247502	1
Gehe amax	Sorbitol, liquid (non crysta…	1804019-02	1
Gehe amax	Sugar syrup DAB	19000457001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe amax	Sugar syrup DAB	20001506001	1
GEHE Kassel 07.02.2019	Sugar syrup DAB	18296402	1
Gehe/AMHNiemann	Sugar syrup DAB	27A090418	1
Gehe/Euro	Raspberry syrup (conserved)	1705037-01	1
Gehe/Euro	Raspberry syrup (conserved)	1709003-01	1
Gehe/Euro	Raspberry syrup (conserved)	CH30043518/001	1
Gehe	Sorbitol, liquid (non crysta...	10323008	1
Gehe	Sorbitol, liquid (non crysta...	1207012-01	1
Gehe	Sorbitol, liquid (non crysta...	120701202	1
Gehe	Sorbitol, liquid (non crysta...	1207012-02	1
Gehe	Sorbitol, liquid (non crysta...	12124910	1
Gehe	Raspberry syrup (conserved)	12161702	1
Gehe	Raspberry syrup (conserved)	12367602	1
Gehe	Sorbitol, liquid (non crysta...	12E08-N09	1
Gehe	Sorbitol, liquid (non crysta...	12K07-N04	1
Gehe	Sorbitol, liquid (non crysta...	12118-N09	1
Gehe	Raspberry syrup (conserved)	1409039-01	1
Gehe	Marshmallow syrup (conserved)	14102603	2
Gehe	Ribwort plantain syrup (cons...	14125701	2
Gehe	Marshmallow syrup (conserved)	14364803	2
Gehe	Fennel honey (conserved)	15015602	1
Gehe	Ribwort plantain syrup (cons...	15076002	2
Gehe	Raspberry syrup (conserved)	1508015-01	1
Gehe	Marshmallow syrup (conserved)	15418606	1
Gehe	Ribwort plantain syrup (cons...	16029002	3
Gehe	Marshmallow syrup (conserved)	16077503	2
Gehe	Raspberry syrup (conserved)	1608003-01	1
Gehe	Marshmallow syrup (conserved)	16213604	1
Gehe	Raspberry syrup (conserved)	17128404	1
Gehe	Sorbitol, liquid (non crysta...	17305401	1
GEHE	Sorbitol, liquid (non crysta...	17305409	1
GEHE	Sugar syrup DAB	18033401	1
Gehe	Sorbitol, liquid (non crysta...	190501001	1
Gehe	Sorbitol, liquid (non crysta...	2003063-02	1
Gehe	Sugar syrup DAB	41A220817	1
Gehe	Sugar syrup DAB	51A090713	1
Gehe	Sugar syrup DAB	70A051118	1
Gutenberg-Apotheke	Sugar syrup DAB	18A030314	1
Hageda	Sugar syrup DAB	17A250220	1
Hänseler	Ribwort plantain syrup (cons...		5
Hochhaus-Apotheke	Sugar syrup DAB	64A260916	3
hochhaus-Apotheke	Sugar syrup DAB	67A131016	1
hochhaus-Apotheke	Sugar syrup DAB	67A-131016	1
Ichthyol/Gehe	Sorbitol, liquid (non crysta...	1309026-01	1
Ichthyol/Gehe	Sugar syrup DAB	22A170316	1
Intern Drogen/Phoenix	Raspberry syrup (conserved)	18096703	1
jenne eurho	Raspberry syrup (conserved)	1302026-01	1
JENNE	Sugar syrup DAB	16214101	1
Jenne	Sugar syrup DAB	56A151221	1
Klenk	Sugar syrup DAB	13A150216	2
L10	Sugar syrup DAB	12A190218	4
L10	Raspberry syrup (conserved)	17128402	4
L10	Sugar syrup DAB	32A140617	1
L10	Sugar syrup DAB	4A240118	3
L10	Sugar syrup DAB	7A050218	3
L12	Sugar syrup DAB	12A300117	1
L12	Ribwort plantain syrup (cons...	163335305	1
L12	Ribwort plantain syrup (cons...	16335302	5
L12	Raspberry syrup (conserved)	16345401	1
L12	Raspberry syrup (conserved)	16345404	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
L12	Ribwort plantain syrup (cons…	18078902	9
L12	Raspberry syrup (conserved)	18190901	3
L12	Sugar syrup DAB	22A160517	5
L12	Sugar syrup DAB	39A170717	5
L12	Sugar syrup DAB	49A240817	1
L12	Sugar syrup DAB	50A170718	3
L12	Sugar syrup DAB	57A280818	2
L12	Sugar syrup DAB	58A131017	3
L12	Sugar syrup DAB	60A210918	2
L12	Sugar syrup DAB	74A271217	2
L12	Sugar syrup DAB	81A291118	1
L12	Sugar syrup DAB	82A121218	1
L12	Sugar syrup DAB	85A231216	2
L30	Sugar syrup DAB	80A251116	2
L30	Sugar syrup DAB	87A271216	3
L31	Ribwort plantain syrup (cons…	16335305	1
Maros / Jenne	Sorbitol, liquid (non crysta…	17027014	1
Midas	Raspberry syrup (conserved)	17128404	6
Midas	Raspberry syrup (conserved)	18096701	5
Midas	Raspberry syrup (conserved)	18096703	3
MIDAS	Raspberry syrup (conserved)	190009801	1
Nachprüfung	Sugar syrup DAB	42A220612	1
Niemann GmbH & Co.KG	Sugar syrup DAB	53A080814	1
Nowe/Apom	Sugar syrup DAB	77A101116	2
Noweda 04.08.15	Raspberry syrup (conserved)	1501011-01	1
noweda	Raspberry syrup (conserved)		1
Noweda	Sugar syrup DAB	11A060213	1
noweda	Raspberry syrup (conserved)	13393605	1
Noweda	Sugar syrup DAB	13a150219	2
Noweda	Sugar syrup DAB	13A150219	1
Noweda	Raspberry syrup (conserved)	1712004-01	1
Noweda	Sorbitol, liquid (non crysta…	17305401	1
Noweda	Raspberry syrup (conserved)	1803009-01	1
Noweda	Sugar syrup DAB	18130001	1
Noweda	Sugar syrup DAB	18A060318	1
Noweda	Raspberry syrup (conserved)	19009801	1
Noweda	Sugar syrup DAB	19010402	1
Noweda	Raspberry syrup (conserved)	1901049-01	1
Noweda	Sorbitol, liquid (non crysta…	2003010-01	1
Noweda	Sugar syrup DAB	72A291117	1
phoenix 14.11.14	Raspberry syrup (conserved)	14114306	1
Phoenix	Sugar syrup DAB	10A110219	3
Phoenix	Sorbitol, liquid (non crysta…	1309026-02	1
Phoenix	Raspberry syrup (conserved)	13338001	1
Phoenix	Sorbitol, liquid (non crysta…	15437906	1
Phoenix	Sorbitol, liquid (non crysta…	17305409	1
Phoenix	Raspberry syrup (conserved)	1807026-01	2
Phoenix	Sugar syrup DAB	18296502	1
Phoenix	Sugar syrup DAB	19050701	2
PHOENIX	Sugar syrup DAB	19131801	1
Phoenix	Sorbitol, liquid (non crysta…	2003063-02	1
Phoenix	Sorbitol, liquid (non crysta…	200582306	1
Phoenix	Sugar syrup DAB	20A040419	1
Phoenix	Sugar syrup DAB	25A020519	2
Phoenix	Sorbitol, liquid (non crysta…	3068	1
Phoenix	Sugar syrup DAB	30A300418	1
Phoenix	Sorbitol, liquid (non crysta…	3131	1
Phoenix	Sugar syrup DAB	43A040613	1
Phoenix	Sugar syrup DAB	44A050819	5
Phoenix	Sugar syrup DAB	59A01914	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Sugar syrup DAB	62A111119	2
Phoenix	Sugar syrup DAB	71A051118	1
Phönix Gotha	Sugar syrup DAB		1
Phönix Gotha	Sugar syrup DAB	1A130114	1
Phönix Gotha	Sugar syrup DAB	51A090713	3
Phönix Gotha	Sugar syrup DAB	59A220813	1
Phönix Gotha	Sugar syrup DAB	77A171013	1
phönix	Raspberry syrup (conserved)	12038501	1
Phönix	Raspberry syrup (conserved)	141114303	1
Phönix	Raspberry syrup (conserved)	14114303	2
Phönix	Cherry syrup (conserved)	14114304	1
Phönix	Sugar syrup DAB	18095701	1
Phönix	Raspberry syrup (conserved)	18096701	1
Phönix	Sugar syrup DAB	18227801	1
Phönix	Sorbitol, liquid (non crysta...	19005010-01	5
Phönix	Raspberry syrup (conserved)	1901049-01	1
Phönix	Raspberry syrup (conserved)	21000519001	1
Phönix	Sugar syrup DAB	29A110418	1
Phönix	Sugar syrup DAB	60A181017	1
Phönix	Raspberry syrup (conserved)	ch30046807/001	1
PhR Neidhardt	Sugar syrup DAB	17A060318	2
PhR Neidhardt	Sugar syrup DAB	38A010618	1
PhR Neidhardt	Sugar syrup DAB	42A310717	1
PhR Neidhardt	Sugar syrup DAB	43A180618	1
PhR Neidhardt	Sugar syrup DAB	54A010818	1
PhR Neidhardt	Sugar syrup DAB	67A101018	2
PhR Neidhardt	Sugar syrup DAB	68A281117	2
PhR Neidhardt	Sugar syrup DAB	73A271217	1
PhR	Sugar syrup DAB	14a200217	1
PhR	Sugar syrup DAB	14A200217	1
PhR	Sugar syrup DAB	30A130617	1
PhR	Sugar syrup DAB	41a040716	1
PhR	Sugar syrup DAB	41A040716	1
PhR	Sugar syrup DAB	53a120816	1
PhR	Sugar syrup DAB	82a151216	1
PhR	Sugar syrup DAB	82A151216	2
PKH / Phoenix	Sugar syrup DAB	80A061115	2
PKH / Phoenix	Sugar syrup DAB	93A231214	1
pkh Gehe 18,12.17	Sugar syrup DAB	68a281117	1
PKH GmbH / Phoenix	Sugar syrup DAB	49A020715	1
PKH GmbH	Sugar syrup DAB	14A200217	1
PKH GmbH	Sugar syrup DAB	30A190416	1
PKH GmbH	Sugar syrup DAB	4A240118	1
PKH GmbH	Sugar syrup DAB	68A281117	1
PKH Halle / Phoenix	Sugar syrup DAB	57A180816	1
PKH Halle/ Gehe 27.04.2...	Sugar syrup DAB	5A180117	1
PKH Halle/Ph	Sugar syrup DAB	38A180719	1
PKH Halle	Sugar syrup DAB	19A040314	1
PKH NO	Sugar syrup DAB	3A271217	1
PKH PH	Sugar syrup DAB	44A040718	1
PKH/Phoenix	Sugar syrup DAB	25A310517	1
PKH	Sugar syrup DAB	41A190612	1
PKH-Halle/Sanacorp	Sugar syrup DAB	10A030214	1
PKH-Halle/Sanacorp	Sugar syrup DAB	72A041013	2
Roquette Lestrem	Sorbitol, liquid (non crysta...	1905010-01	1
Roquette lestrem	Sorbitol, liquid (non crysta...	2003010-01	1
Sanacorp/ PKH Halle	Sugar syrup DAB	29A110512	1
Sanacorp/AMHNiemann	Sugar syrup DAB	48A160718	2
Sanacorp	Raspberry syrup (conserved)	12283103	3
Sanacorp	Ribwort plantain syrup (cons...	13152303	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Raspberry syrup (conserved)	13194301	1
Sanacorp	Marshmallow syrup (conserved)	13212909	1
Sanacorp	Sugar syrup DAB	13A080421	1
Sanacorp	Sugar syrup DAB	13A290115	1
Sanacorp	Raspberry syrup (conserved)	14243405	1
Sanacorp	Raspberry syrup (conserved)	1508015-01	1
Sanacorp	Ribwort plantain syrup (cons…	16029009	1
Sanacorp	Ribwort plantain syrup (cons…	16335302	1
Sanacorp	Ribwort plantain syrup (cons…	16335305	1
Sanacorp	Raspberry syrup (conserved)	1701022-01	1
Sanacorp	Fennel honey (conserved)	17032805	2
Sanacorp	Marshmallow syrup (conserved)	17128301	2
Sanacorp	Marshmallow syrup (conserved)	17128305	1
Sanacorp	Marshmallow syrup (conserved)	17249904	1
Sanacorp	Sugar syrup DAB	17260101	1
Sanacorp	Marshmallow syrup (conserved)	17357505	1
Sanacorp	Raspberry syrup (conserved)	180300901	1
Sanacorp	Ribwort plantain syrup (cons…	18078902	5
Sanacorp	Marshmallow syrup (conserved)	18155106	5
Sanacorp	Fennel honey (conserved)	18158002	2
Sanacorp	Raspberry syrup (conserved)	18190901	1
Sanacorp	Ribwort plantain syrup (cons…	18289801	2
Sanacorp	Raspberry syrup (conserved)	19009801	1
sanacorp	Sorbitol, liquid (non crysta…	1905010-02	1
Sanacorp	Sorbitol, liquid (non crysta…	20000571003	1
Sanacorp	Sorbitol, liquid (non crysta…	20000571007	1
Sanacorp	Sugar syrup DAB	58A270712	1
Sanacorp	Sugar syrup DAB	82A081112	1
Spangropharm	Sugar syrup DAB	5117A-02263	1
Zentralapotheke, Eigenh…	Sugar syrup DAB	170620	1

- 294 385 spectra from 1324 *Apo-Ident* customers from a total of 52 038 batches from a further 336 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Syrups* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Syrups* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	2020	0	66 479
Type B	0	2682	7	108 624
Type C	0	3069	4	294 385

The substance/substance group *Syrups* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.7030 %)
Type B	100.0000 % (> 99.9678 %)	99.7397 % (> 99.6281 %)
Type C	100.0000 % (> 99.6875 %)	99.8698 % (> 99.7722 %)

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Syrups* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Honey	12.48	–
Viscous base solution (NRF p. 20)	19.52	–
Glucose syrup	23.53	–
Rose honey	24.22	–
Condurango wine	26.93	–
Liquorice juice purified, diluted	28.79	–
Lotio Cordes®	33.42	–
Sodium-(s)-lactate solution 50%	34.65	–
Glycerine ointment (conserved)	36.24	–
Fortified wine	57.58	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Syrups* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30753	31147	3.35	34.98
30870	32277	5.58	32.83
30897	31877	3.37	33.65
30900	30900	0.00	29.47
31051	31051	0.00	39.00
31124	31353	1.76	32.61
31147	31147	0.00	36.15
31155	31155	0.00	37.37
31175	31175	0.00	37.92
31181	31181	0.00	41.09
31218	31218	0.00	33.42
31353	31353	0.00	32.83

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31355	31175	1.86	35.52
31359	31051	1.49	37.08
31365	31877	3.65	37.22
31467	31051	1.73	39.69
31598	30900	7.34	26.65
31773	31773	0.00	32.41
31802	31802	0.00	33.04
31877	31877	0.00	36.82
32210	32210	0.00	34.79
32277	32277	0.00	32.61
32284	32284	0.00	35.06
32984	32984	0.00	31.16
33099	33099	0.00	43.20
33228	33228	0.00	35.03
33263	31181	5.70	40.05
33331	33331	0.00	37.37
33420	31181	6.29	40.96
33421	31181	5.76	40.52
33505	35164	2.11	38.93
34233	34233	0.00	27.07
34329	34329	0.00	42.06
34477	34477	0.00	38.62
34526	31877	2.19	34.71
34600	34600	0.00	37.50
34664	34664	0.00	37.82
34734	34734	0.00	26.88
34831	34831	0.00	33.72
35138	35138	0.00	45.19
35164	35164	0.00	38.52
35290	31181	10.98	39.00
35552	35552	0.00	27.16
36065	36065	0.00	29.59
36481	31218	4.17	34.13

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Tea tree oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31023-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Tea tree oil; Melaleucae aetheroleum

Special notes

When selecting the *Tea tree oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Tea tree oil	5	3	93

Second-stage model

For differentiation of the substance/substance group *Tea tree oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Tea tree oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Tea tree oil	12201303	31023	40	1404597
Caelo	Tea tree oil	13288914	31401	40	20130828
Caelo	Tea tree oil	14203203	31960	60	20140703
Caelo	Tea tree oil	15337105	33478	40	20151007
Caelo	Tea tree oil	192425	34712	40	20191002*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 220 spectra of 5 reference samples from the substance/substance group *Tea tree oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 279 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Tea tree oil*.
- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Tea tree oil	173227	34058	40
Caelo	Tea tree oil	170677	34059	40
Caelo	Tea tree oil	21004231	36166	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 195 spectra from 70 *Apo-Ident* customers from 96 batches from the substance/substance group *Tea tree oil*.

- Among them are spectra of independent samples from 90 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Apoth.Bauer&Co,Münch	Tea tree oil		1
Apoth.Bauer&Co,Münch	Tea tree oil	692624	1
apotheker bauer& cie oHgG	Tea tree oil	6548331306	1
Apotheker Bauer&Cie OHG	Tea tree oil	68647-73-4-85085-48-9	1
Apotheker bauer	Tea tree oil		1
Bergland / Noweda	Tea tree oil	P102633	1
Bergland /Noweda	Tea tree oil	K302332	1
Bergland-Pharma/Anzag	Tea tree oil	C002685	1
Bergland-Pharma/Anzag	Tea tree oil	C101782	1
Bombastus	Tea tree oil	19001331	2
Bombastus	Tea tree oil	302427	1
Bombastus	Tea tree oil	304033	1
Bombastus	Tea tree oil	305629	3
Caelo	Tea tree oil	11333514	1
Caelo	Tea tree oil	11333516	1
Caelo	Tea tree oil	11358910	1
Caelo	Tea tree oil	12201303	3
Caelo	Tea tree oil	12201304	3
Caelo	Tea tree oil	12201311	4
Caelo	Tea tree oil	12201313	1
Caelo	Tea tree oil	13099506	6
Caelo	Tea tree oil	13099510	4
Caelo	Tea tree oil	13288902	1
Caelo	Tea tree oil	14071604	2
Caelo	Tea tree oil	14111201	1
Caelo	Tea tree oil	14203201	1
Caelo	Tea tree oil	14203202	1
Caelo	Tea tree oil	14203203	2
Caelo	Tea tree oil	14302301	8
Caelo	Tea tree oil	14302302	1
Caelo	Tea tree oil	15051806	2
Caelo	Tea tree oil	15051807	2
Caelo	Tea tree oil	15337106	3
Caelo	Tea tree oil	15337111	2
Caelo	Tea tree oil	15337112	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Tea tree oil	15337120	4
Caelo	Tea tree oil	16007506	7
Caelo	Tea tree oil	16007509	4
Caelo	Tea tree oil	170667706	3
Caelo	Tea tree oil	17067705	6
Caelo	Tea tree oil	17067706	7
Caelo	Tea tree oil	17322706	3
Caelo	Tea tree oil	17322707	1
Caelo	Tea tree oil	17322710	1
Caelo	Tea tree oil	17322711	3
Caelo	Tea tree oil	17322716	4
Caelo	Tea tree oil	17322717	1
Caelo	Tea tree oil	1732711	1
Caelo	Tea tree oil	18001809	2
Caelo	Tea tree oil	18047602	2
Caelo	Tea tree oil	18047603	2
Caelo	Tea tree oil	18047610	2
Caelo	Tea tree oil	18047611	4
Caelo	Tea tree oil	192425001	2
Caelo	Tea tree oil	192425002	1
Caelo	Tea tree oil	192425004	4
Caelo	Tea tree oil	192425006	1
Caelo	Tea tree oil	192425007	2
Caelo	Tea tree oil	192425008	1
Caelo	Tea tree oil	192425017	1
Caelo	Tea tree oil	192425018	1
Caelo	Tea tree oil	19245004	1
Caelo	Tea tree oil	19245018	1
Caelo	Tea tree oil	21000006005	1
Caelo	Tea tree oil	21004231001	1
Caelo	Tea tree oil	21004231004	1
Caelo	Tea tree oil	300469	1
Caelo	Tea tree oil	P-09121921	1
Caelo	Tea tree oil	P-09121921/17322709	1
Caesar & Loretz GmbH	Tea tree oil	17322710	3
Caesar & Loretz GmbH	Tea tree oil	192425004	1
Caesar & Loretz GmbH	Tea tree oil	21000006002	3
Caesar & Loretz	Tea tree oil	15337119	1
Cealo	Tea tree oil	12201303	1
Devesa	Tea tree oil	18047602	1
Ebert 01.09.2016	Tea tree oil	15337105	1
Fagron	Tea tree oil		2
Gehe	Tea tree oil	K203705	3
L12	Tea tree oil	15337119	1
L12	Tea tree oil	18047602	1
Melaleuka GmbH	Tea tree oil	MCZWH14	1
Minck	Tea tree oil	1511E-03093	1
Noweda/Taoasis	Tea tree oil	122038-8756	1
Noweda	Tea tree oil	17322711	1
Noweda	Tea tree oil	18047603	1
Phönix	Tea tree oil	17067705	1
primavera	Tea tree oil	5604136	1
Sanacorp/Taoasis	Tea tree oil	76283-777	1
Sensient	Tea tree oil	C9663	1
Taoasis GmbH	Tea tree oil	98546	1
Taoasis/Noweda	Tea tree oil	20644-5389	1
Taoasis/Taoasis	Tea tree oil	20269-117745G09	1
Taoasis	Tea tree oil	122038-8343	1
Taoasis	Tea tree oil	122038-9077	1
Taoasis	Tea tree oil	26276-12047	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Taoasis	Tea tree oil	26752-13384	1
Taoasis	Tea tree oil	33152-112369	1
Taoasis	Tea tree oil	41015006139	1
Taoasis	Tea tree oil	516495-108562	1
Taoasis	Tea tree oil	535627-110746	2
Taoasis	Tea tree oil	556031-114257	2
Taoasis	Tea tree oil	702-13926	2
Taoasis	Tea tree oil	76283-778	1
Taoasis	Tea tree oil	92962-3626	1
Taoasis	Tea tree oil	92962-9483	1

- 297 263 spectra from 1324 *Apo-Ident* customers from a total of 52 892 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Tea tree oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Tea tree oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	220	0	68 279
Type B	0	120	0	111 193
Type C	0	194	1	297 263

The substance/substance group *Tea tree oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.2727 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6875 %)	99.4872 % (> 97.9487 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Tea tree oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Citronella oil	38.89	–
Verbena oil, nature-identical	56.89	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Tea tree oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31023	31023	0.00	55.13
31401	34712	15.07	50.98
31960	31023	8.16	56.67
33478	34712	9.23	71.17
34712	34712	0.00	62.72

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Thyme oil, thymol type**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30206-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Thyme oil, thymol type; Thymi typo thymolo aetheroleum

Special notes

When selecting the *Thyme oil, thymol type* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Thyme oil, thymol type	6	4	119

Second-stage model

For differentiation of the substance/substance group *Thyme oil, thymol type* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Thyme oil, thymol type*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Bombastus	Thyme oil, thymo...	17001282	33878	40	20171108
Bombastus	Thyme oil, thymo...	18003401	34519	40	124170
Bombastus	Thyme oil, thymo...	19001870	35066	40	20190322
Caelo	Thyme oil, thymo...	12020518	31018	40	1407220
Caelo	Thyme oil, thymo...	14225405	31566	60	20140822
Caelo	Thyme oil, thymo...	15230104	32265	40	20150702

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 260 spectra of 6 reference samples from the substance/substance group *Thyme oil, thymol type*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.
- 68 239 spectra from a total of 1407 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Thyme oil, thymol type*.
- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Thyme oil, thymol type	305865	33877	40
Bombastus	Thyme oil, thymol type	21003510	36195	40
Caelo	Thyme oil, thymol type	163279	33083	40
Caelo	Thyme oil, thymol type	16327902	33477	40

- 111 153 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 393 spectra from 174 *Apo-Ident* customers from 125 batches from the substance/substance group *Thyme oil, thymol type*.
- Among them are spectra of independent samples from 118 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Thyme oil, thymol type	13044708	1
Anzag 27.12.12 ek:8,71	Thyme oil, thymol type	12020510	2
Bombastus	Thyme oil, thymol type	18002293	1
Bombastus	Thyme oil, thymol type	18003401	4
Bombastus	Thyme oil, thymol type	19001870	3
Bombastus	Thyme oil, thymol type	19006602	1
Bombastus	Thyme oil, thymol type	21003510	1
Bombastus	Thyme oil, thymol type	268010	1
Bombastus	Thyme oil, thymol type	271263	1
Bombastus	Thyme oil, thymol type	283494	1
Bombastus	Thyme oil, thymol type	298188	3
Bombastus	Thyme oil, thymol type	305865	1
Caelo	Thyme oil, thymol type	10118603	1
Caelo	Thyme oil, thymol type	1017Q-02023	1
Caelo	Thyme oil, thymol type	1120917	1
Caelo	Thyme oil, thymol type	11275801	1
Caelo	Thyme oil, thymol type	11275806	1
Caelo	Thyme oil, thymol type	11275811	2
Caelo	Thyme oil, thymol type	12020503	3
Caelo	Thyme oil, thymol type	12020510	6
Caelo	Thyme oil, thymol type	12020511	1
Caelo	Thyme oil, thymol type	12020514	5
Caelo	Thyme oil, thymol type	12020515	1
Caelo	Thyme oil, thymol type	12020518	5
Caelo	Thyme oil, thymol type	1202510	1
Caelo	Thyme oil, thymol type	12165401	1
Caelo	Thyme oil, thymol type	12201104	5
Caelo	Thyme oil, thymol type	1221104	1
Caelo	Thyme oil, thymol type	13021303	1
Caelo	Thyme oil, thymol type	13044702	3
Caelo	Thyme oil, thymol type	13044705	1
Caelo	Thyme oil, thymol type	13044707	7
Caelo	Thyme oil, thymol type	13044708	6
Caelo	Thyme oil, thymol type	13044709	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Thyme oil, thymol type	13044710	1
Caelo	Thyme oil, thymol type	13044715	2
Caelo	Thyme oil, thymol type	13044716	3
Caelo	Thyme oil, thymol type	14071202	1
Caelo	Thyme oil, thymol type	142225412	1
Caelo	Thyme oil, thymol type	14225401	3
Caelo	Thyme oil, thymol type	14225403	1
Caelo	Thyme oil, thymol type	14225405	1
Caelo	Thyme oil, thymol type	14225406	6
Caelo	Thyme oil, thymol type	14225408	3
Caelo	Thyme oil, thymol type	14225409	2
Caelo	Thyme oil, thymol type	14225410	2
Caelo	Thyme oil, thymol type	14225412	3
Caelo	Thyme oil, thymol type	14225413	9
Caelo	Thyme oil, thymol type	14225414	1
Caelo	Thyme oil, thymol type	14225417	4
Caelo	Thyme oil, thymol type	14225418	1
Caelo	Thyme oil, thymol type	142254410	1
Caelo	Thyme oil, thymol type	14381301	1
Caelo	Thyme oil, thymol type	15042208	1
Caelo	Thyme oil, thymol type	15230104	11
Caelo	Thyme oil, thymol type	15230104/1100516	1
Caelo	Thyme oil, thymol type	1540220	1
Caelo	Thyme oil, thymol type	154022002	1
Caelo	Thyme oil, thymol type	15402202	29
Caelo	Thyme oil, thymol type	15402203	1
Caelo	Thyme oil, thymol type	15402204	1
Caelo	Thyme oil, thymol type	15402207	6
Caelo	Thyme oil, thymol type	15402208	4
Caelo	Thyme oil, thymol type	15402219	1
Caelo	Thyme oil, thymol type	16327902	10
Caelo	Thyme oil, thymol type	16327903	9
Caelo	Thyme oil, thymol type	16327904	2
Caelo	Thyme oil, thymol type	16327906	1
Caelo	Thyme oil, thymol type	16327909	8
Caelo	Thyme oil, thymol type	16327910	17
Caelo	Thyme oil, thymol type	16327911	1
Caelo	Thyme oil, thymol type	16327915	1
Caelo	Thyme oil, thymol type	163279902	1
Caelo	Thyme oil, thymol type	1632910	1
Caelo	Thyme oil, thymol type	18025201	11
Caelo	Thyme oil, thymol type	18087301	6
Caelo	Thyme oil, thymol type	18087305	1
Caelo	Thyme oil, thymol type	18087307	2
Caelo	Thyme oil, thymol type	18087308	1
Caelo	Thyme oil, thymol type	18087309	17
Caelo	Thyme oil, thymol type	18087312	7
Caelo	Thyme oil, thymol type	18087313	2
Caelo	Thyme oil, thymol type	18087314	2
Caelo	Thyme oil, thymol type	18087319	4
Caelo	Thyme oil, thymol type	18087320	3
Caelo	Thyme oil, thymol type	18087321	1
Caelo	Thyme oil, thymol type	180887320	1
Caelo	Thyme oil, thymol type	18097309	1
Caelo	Thyme oil, thymol type	18252007	1
Caelo	Thyme oil, thymol type	192423003	1
Caelo	Thyme oil, thymol type	192423004	6
Caelo	Thyme oil, thymol type	192423006	3
Caelo	Thyme oil, thymol type	192423008	2
Caelo	Thyme oil, thymol type	192423010	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Thyme oil, thymol type	192423013	3
Caelo	Thyme oil, thymol type	192423015	1
Caelo	Thyme oil, thymol type	19242303	4
Caelo	Thyme oil, thymol type	19243013	2
Caelo	Thyme oil, thymol type	2016E-02023	1
Caelo	Thyme oil, thymol type	21000083003	6
Caelo	Thyme oil, thymol type	21000083004	2
Caelo	Thyme oil, thymol type	21000083006	1
Caelo	Thyme oil, thymol type	210083003	1
Caelo	Thyme oil, thymol type	24061701	1
Caelo	Thyme oil, thymol type	2615A-02023	1
Caelo	Thyme oil, thymol type	301115	1
Caelo	Thyme oil, thymol type	3018E-02023	1
Caelo	Thyme oil, thymol type	315A-02023	1
Caelo	Thyme oil, thymol type	3211I-02023	1
Caelo	Thyme oil, thymol type	3313U-02023	1
Caelo	Thyme oil, thymol type	5121816	1
Caelo	Thyme oil, thymol type	6081401	1
Caelo	Thyme oil, thymol type	Bittenachtragen	1
Caesar & Loretz GmbH / ...	Thyme oil, thymol type	18087320	1
Caesar & Loretz GmbH	Thyme oil, thymol type	18087307	1
Caesar & Loretz GmbH	Thyme oil, thymol type	18087312	2
Caesar & Loretz GmbH	Thyme oil, thymol type	18087319	3
Caesar & Loretz GmbH	Thyme oil, thymol type	18087320	1
Caesar & Loretz GmbH	Thyme oil, thymol type	192423003	1
Caesar & Loretz GmbH	Thyme oil, thymol type	192423004	1
Caesar & Loretz GmbH	Thyme oil, thymol type	192423006	2
Caesar & Loretz GmbH	Thyme oil, thymol type	192423013	3
Caesar & Loretz GmbH	Thyme oil, thymol type	21000083003	1
Caesar & Loretz/Noweda	Thyme oil, thymol type	15402202	1
Euro OTC	Thyme oil, thymol type		1
Euro OTC	Thyme oil, thymol type	18087307	8
Fagron	Thyme oil, thymol type		1
Fagron	Thyme oil, thymol type	10L20-N09	1
Fagron	Thyme oil, thymol type	12020518	1
Fagron	Thyme oil, thymol type	18087309	3
Fiebi 07.11.12 ek:8,48	Thyme oil, thymol type	12020503	1
GEHE 02.07.2014	Thyme oil, thymol type	13044715	3
Gehe	Thyme oil, thymol type	14225410	1
Gehe	Thyme oil, thymol type	15402202	1
Kögl	Thyme oil, thymol type	14602170617	1
L12	Thyme oil, thymol type	18087309	1
Noweda	Thyme oil, thymol type	18087307	1
Noweda	Thyme oil, thymol type	18087319	2
Phoenix	Thyme oil, thymol type	15402202	1
Phönix	Thyme oil, thymol type	18087309	1
Primavera	Thyme oil, thymol type	386G29	1
Primavera	Thyme oil, thymol type	388D28	2
PVL	Thyme oil, thymol type	271112	1
Sanacorp	Thyme oil, thymol type	16327910	1
Sanacorp	Thyme oil, thymol type	18087307	1
Taoasis	Thyme oil, thymol type	109378	1
TAOASIS	Thyme oil, thymol type	16327908	1
Taoasis	Thyme oil, thymol type	28739-104426	1
Taoasis	Thyme oil, thymol type	28739-106640	1
Taoasis	Thyme oil, thymol type	31911-109378	1
Taoasis	Thyme oil, thymol type	31911-110649	1
Taoasis	Thyme oil, thymol type	8013-13927	1
VDL	Thyme oil, thymol type	14225413	1

- 297 065 spectra from 1324 *Apo-Ident* customers from a total of 52 866 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Thyme oil, thymol type* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Thyme oil, thymol type* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	260	0	68 239
Type B	0	160	0	111 153
Type C	0	387	6	297 065

The substance/substance group *Thyme oil, thymol type* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.6923 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6875 %)	98.4733 % (> 97.7099 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Thyme oil, thymol type* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Oregano oil	24.28	–
Coriander oil	60.12	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Thyme oil, thymol type* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31018	31018	0.00	47.71
31566	31018	7.31	49.13
32265	31018	13.19	40.79
33878	31018	13.06	43.64
34519	31018	20.85	38.38
35066	31018	22.95	35.39

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Triglycerides**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30647-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Triglycerides; Almond oil, refined; Amygdalae oleum raffinatum; Apricot kernel oil, refined; Avocado oil, refined; Borage oil, refined, stabilised; Butyrospermi parkii adeps raffinatus; Carthami oleum raffinatum; Codliver oil (type A); Corn oil, refined; Decyl oleate; Decylis oleas; Evening primrose oil, refined; Flaxseed oil, native; Grape seed oil, refined; Helianthi annui oleum raffinatum; Iecoris aselli oleum A; Jojoba Oil, native; Laurel oil; Lauri oleum; Lecithinum e sojae, liquidus; Lini oleum virginale; Maydis oleum raffinatum; Oenotherae oleum raffinatum; Oleum arachidis raffinatum; Oleum boraginis raffinatum; Oleum cucurbita semen; Oleum juglandis raffinat.; Oleum omega-3 18/12; Oleum persea americana raffinatum; Oleum pruni armeniacae raffinatum; Oleyl oleate (stabilised); Oleylis oleas; Olivae oleum virginale; Olive oil, native; Omega-3-fish oil; Peanut oil, refined; Pumpkin seed oil, pressed; Rapae oleum raffinatum; Rapeseed oil, refined; Safflower oil, refined type I; Sesame oil, refined; Sesami oleum raffinatum; Shea butter, refined; Simmondsiae cera virginalis; Soiae oleum raffinatum; Soy lecithin, liquid; Soy oil, refined; Sunflower oil, refined; Tritici aestivi oleum raffinatum; Vitis viniferae oleum raffinatum; Walnut oil, refined; Wheatgerm oil, refined

Special notes

When selecting the *Triglycerides* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.

2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.

3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Triglycerides	142	162	4078

Second-stage model

For differentiation of the substance/substance group *Triglycerides* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Triglycerides*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Almond oil, refi...	13350007	31250	40	1407348
Caelo	Almond oil, refi...	14042704	31337	40	20140211
Caelo	Almond oil, refi...	191871	34617	40	20190709*
Euro OTC	Almond oil, refi...	1510014	31770	60	20151022*
Euro OTC	Almond oil, refi...	1603025	32188	40	20160428*
Euro OTC	Almond oil, refi...	1909015	34751	40	20191015*
Caelo	Apricot kernel o...	11346402	30840	40	20111214
Caelo	Apricot kernel o...	13357604	31375	40	1412121
Caelo	Apricot kernel o...	162361	32683	40	20160818*
Caelo	Apricot kernel o...	16236106	32931	40	20160818
Caelo	Apricot kernel o...	170555	33060	30	20170308*
Caelo	Apricot kernel o...	190665	34666	40	20190318*
Caelo	Apricot kernel o...	20002355	35038	40	20200729*
Caelo	Avocado oil, ref...	13361406	31336	40	AR-15-FG-002721-01
Caelo	Avocado oil, ref...	14363703	31662	60	20150114
Caelo	Avocado oil, ref...	170388	33067	40	20170209*
Caelo	Avocado oil, ref...	22000821	36532	40	20220607*
Euro OTC	Avocado oil, ref...	1501015	31801	60	20150121*
Euro OTC	Avocado oil, ref...	1605034	32457	40	20160607*
Caelo	Borage oil, refi...	13170606	31161	40	1407319
Caelo	Borage oil, refi...	14161904	31384	40	20140522
Caelo	Borage oil, refi...	16266007	33510	40	20161027
Caelo	Borage oil, refi...	182958	34643	40	20181212*
Caelo	Borage oil, refi...	192492	34721	40	20190920*
Caelo	Borage oil, refi...	20000791	35057	40	20200326*
Caelo	Codliver oil (ty...	12062501	30878	40	20120411
Caelo	Codliver oil (ty...	13396403	31361	60	AR-14-FG-012167-01
Caelo	Codliver oil (ty...	20004067002	35747	50	20210616
Fagron	Codliver oil (ty...	14D16-B08-304341	31677	60	20140520
Fagron	Codliver oil (ty...	15A07-B05-304428	31825	60	20150116
Henry Lamotte	Codliver oil (ty...	8006235003	35286	40	20200701
Caelo	Corn oil, refined	12141511	31016	40	1407320
Caelo	Corn oil, refined	13249005	31274	40	1407347
Caelo	Corn oil, refined	13249005	31344	40	20130819
Caelo	Corn oil, refined	191129	34437	40	20190424*
Caelo	Corn oil, refined	21002133	35779	50	20210705*

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Corn oil, refined	20003898002	35847	50	20201215
Caelo	Decyl oleate	13378403	31382	40	AR-15-FG-000232-01
Caelo	Decyl oleate	170595	33070	40	20170308*
Caelo	Decyl oleate	20002016	35018	40	20200710*
Euro OTC	Decyl oleate	1309018-01	31584	60	20131007
Caelo	Evening primrose...	12325103	30855	40	20121107
Caelo	Evening primrose...	14010915	31460	60	AR-14-FG-012898-01
Caelo	Evening primrose...	14258610	31572	60	AR-15-FG-002720-01
Caelo	Evening primrose...	20001052	35056	40	20200505*
Euro OTC	Evening primrose...	1407002-02	31589	60	20140718
Euro OTC	Evening primrose...	1509005	31775	60	20150921*
Euro OTC	Evening primrose...	2105001	35579	50	20210701*
Bombastus	Flaxseed oil, na...	281489	31172	40	1407202
Bombastus	Flaxseed oil, na...	309176	33880	40	114126
Bombastus	Flaxseed oil, na...	19001510	34522	40	130458
Bombastus	Flaxseed oil, na...	20004426	35288	40	20201113
Caelo	Flaxseed oil, na...	14087903	31326	40	20140401
Caelo	Flaxseed oil, na...	170467	33064	40	20170222*
Caelo	Grape seed oil, ...	13065302	31121	40	1407373
Caelo	Grape seed oil, ...	16092401	32746	40	20160407
Caelo	Grape seed oil, ...	192412	34713	40	20191002*
Caelo	Grape seed oil, ...	20000789	35046	40	20200326*
Caelo	Grape seed oil, ...	21002984	35780	50	20210917*
Caelo	Grape seed oil, ...	21001936	35785	50	20210615*
Caelo	Jojoba Oil, native	13287709	31322	40	AR-14-FG-012487-01
Caelo	Jojoba Oil, native	13287709	31482	60	20130920
Caelo	Jojoba Oil, native	13287709	31519	60	20130920
Caelo	Jojoba Oil, native	16070602	33254	40	20160316
Euro OTC	Jojoba Oil, native	1808038	34300	40	20180917*
Euro OTC	Jojoba Oil, native	2001009	34807	40	20200131*
Henry Lamotte	Jojoba Oil, native	8002391001	33876	40	20161124
Henry Lamotte	Jojoba Oil, native	8004998001	34691	40	20190221
Caelo	Laurel oil	13024511	31122	40	1403397
Caelo	Laurel oil	15216401	31833	60	1606485
Caelo	Laurel oil	16275701	33255	40	20161005
Caelo	Laurel oil	190919	34441	40	20190509*
Caelo	Laurel oil	192363	34711	40	20190913*
Caelo	Laurel oil	20002806006	35740	50	20200914
Caelo	Oleyl oleate (st...	12220205	30754	40	20120803
Caelo	Oleyl oleate (st...	12220207	30863	40	20120803
Caelo	Oleyl oleate (st...	14005001	31496	60	AR-15-FG-001552-01
Caelo	Oleyl oleate (st...	21000767	35299	40	20210401*
Bombastus	Olive oil, native	306949	32990	40	20170116
Bombastus	Olive oil, native	306949	32991	40	20170116
Bombastus	Olive oil, native	19001848	34521	40	130315
Caelo	Olive oil, native	14024409	31356	60	20140130
Caelo	Olive oil, native	161446	32195	40	20160524*
Caelo	Olive oil, native	163274	33063	30	20160112*
Caelo	Olive oil, native	20001410	35053	40	20200507*
Euro OTC	Olive oil, native	1407052-02	31585	60	20140812
Euro OTC	Olive oil, native	1602022	32186	40	20160309*
Henry Lamotte	Omega-3-fish oil	0123108	30679	40	20120613
Henry Lamotte	Omega-3-fish oil	0123780	31178	40	20130403
Henry Lamotte	Omega-3-fish oil	0124495	31540	60	20140325
Henry Lamotte	Omega-3-fish oil	1000000642	31729	60	1601423
Henry Lamotte	Omega-3-fish oil	1000000642	31792	60	20150414
Henry Lamotte	Omega-3-fish oil	1000001175	31875	60	20150626
Henry Lamotte	Omega-3-fish oil	1000018545	36396	40	20220218
Caelo	Peanut oil, refi...	13306106	31246	40	1406534
Caelo	Peanut oil, refi...	14115404	31346	60	20140415

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Peanut oil, refi...	162495	32680	40	20160831*
Caelo	Peanut oil, refi...	170428	33059	40	20170215*
Caelo	Peanut oil, refi...	163553	33085	40	20170106*
Caelo	Peanut oil, refi...	20001473	35045	40	20200512*
Caelo	Pumpkin seed oil...	13358504	31332	40	AR-14-FG-012336-02
Caelo	Pumpkin seed oil...	14199402	31609	60	1507428
Caelo	Pumpkin seed oil...	171379	33917	40	20170606*
Caelo	Pumpkin seed oil...	191450	34663	40	20190605*
Caelo	Pumpkin seed oil...	192743	34718	40	20191008*
Caelo	Pumpkin seed oil...	21003628002	36484	40	20211112
Caelo	Rapeseed oil, re...	12054402	30647	40	20120321
Caelo	Rapeseed oil, re...	13011008	31215	40	1406536
Caelo	Rapeseed oil, re...	13236506	31376	40	20130806
Caelo	Rapeseed oil, re...	21001714	35784	50	20210609*
Caelo	Rapeseed oil, re...	20004106002	35818	50	20201204
Caelo	Safflower oil, r...	13011302	30981	80	1407318
Caelo	Safflower oil, r...	13358705	31362	60	20131122
Caelo	Safflower oil, r...	161849	32334	40	20160623*
Caelo	Sesame oil, refi...	12054508	30873	40	20120323
Caelo	Sesame oil, refi...	13397402	31350	60	AR-14-FG-012338-01
Caelo	Sesame oil, refi...	192560	34716	40	20190924*
Caelo	Sesame oil, refi...	20000741	35055	40	20200327*
Caelo	Sesame oil, refi...	21001358004	35823	50	20210517
Caelo	Sesame oil, refi...	22001920	36491	30	20220630*
Caelo	Shea butter, ref...	13143819	31513	60	1412122
Caelo	Shea butter, ref...	14261107	31582	60	20140923
Caelo	Shea butter, ref...	15303004	31826	60	20151112
Caelo	Shea butter, ref...	15144903	32300	40	20150703
Caelo	Shea butter, ref...	15144903	32301	40	20150703
Caelo	Shea butter, ref...	22000650	36164	40	20220315*
Euro OTC	Soy lecithin, li...	1305019-01	31034	40	20130603
Euro OTC	Soy lecithin, li...	1404022-01	31523	60	8779
Euro OTC	Soy lecithin, li...	1907035	34753	40	20190911*
Caelo	Soy oil, refined	13361305	31378	40	20131122
Caelo	Soy oil, refined	15239302	31834	60	20150817
Caelo	Soy oil, refined	15239302	32729	40	20150817
Caelo	Soy oil, refined	171217	33309	40	20170509*
Caelo	Soy oil, refined	22001711	36535	40	20220607*
Caelo	Sunflower oil, r...	13011411	31217	40	1406538
Caelo	Sunflower oil, r...	13225110	31374	40	20130813
Caelo	Sunflower oil, r...	15422804	32745	40	20151218
Henry Lamotte	Sunflower oil, r...	8002491005	33472	40	20170210
Henry Lamotte	Sunflower oil, r...	1000010859	34701	40	20190503
Henry Lamotte	Sunflower oil, r...	1000015924	35467	40	20210218
Caelo	Walnut oil, refi...	13202401	31216	40	1406537
Caelo	Walnut oil, refi...	13364501	31380	40	20131122
Caelo	Walnut oil, refi...	173248	33916	40	20170512*
Caelo	Wheatgerm oil, r...	13261604	31491	40	1412119
Caelo	Wheatgerm oil, r...	16137403	32730	40	20160708
Caelo	Wheatgerm oil, r...	191432	34602	40	20190605*
Caelo	Wheatgerm oil, r...	20001556	35043	40	20200515*
Caelo	Wheatgerm oil, r...	20004490	35271	40	20210211*
Caelo	Wheatgerm oil, r...	21002983	35782	50	20211005*

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 6680 spectra of 149 reference samples from the substance/substance group *Triglycerides*. These samples are listed above in the *calibration samples* section. The reference samples come from 142 different batches.

- 61 819 spectra from a total of 1271 batches from further 203 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 6635 spectra of 163 reference samples from the substance/substance group *Triglycerides*.

- Among them are spectra of independent samples from 162 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Bombastus	Almond oil, refined	22000138	36188	40
Caelo	Almond oil, refined	161444	32198	40
Caelo	Almond oil, refined	170422	33066	40
Caelo	Almond oil, refined	171765	33314	40
Caelo	Almond oil, refined	20000746	35030	40
Caelo	Almond oil, refined	20001624	35031	40
Caelo	Almond oil, refined	21001240	35466	40
Caelo	Almond oil, refined	21002363	35783	50
Caelo	Almond oil, refined	22000751	36074	40
Caelo	Almond oil, refined	21003729	36161	40
Euro OTC	Almond oil, refined	1701036	33231	40
Euro OTC	Almond oil, refined	1801030	33924	40
Euro OTC	Almond oil, refined	1807007	34195	40
Euro OTC	Almond oil, refined	1904007	34493	40
Euro OTC	Almond oil, refined	2004032	35060	40
Euro OTC	Almond oil, refined	2009004	35079	40
Euro OTC	Almond oil, refined	2101033	35246	40
Euro OTC	Almond oil, refined	2107007	35625	50
Euro OTC	Almond oil, refined	2111012	35899	50
Caelo	Apricot kernel oil, refined	16236109	33512	40
Caelo	Apricot kernel oil, refined	172518	33700	40
Caelo	Apricot kernel oil, refined	20001746	35039	40
Bombastus	Avocado oil, refined	22000064	36189	40
Caelo	Avocado oil, refined	161047	32197	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Avocado oil, refined	161859	32315	40
Caelo	Avocado oil, refined	21001530006	35741	50
Caelo	Avocado oil, refined	21002884	35786	50
Caelo	Avocado oil, refined	22000074	36070	40
Caelo	Borage oil, refined, stabili…	162660	32685	40
Caelo	Borage oil, refined, stabili…	17055407	33853	40
Caelo	Borage oil, refined, stabili…	21002207	35775	50
Caelo	Borage oil, refined, stabili…	22001488	36310	40
Caelo	Codliver oil (type A)	162739	32690	40
Caelo	Codliver oil (type A)	171378	33308	40
Caelo	Codliver oil (type A)	20000831	35048	40
Caelo	Codliver oil (type A)	21002506	35777	50
Caelo	Codliver oil (type A)	22000638	36297	40
Caelo	Corn oil, refined	162603	32689	40
Caelo	Corn oil, refined	170550	33069	40
Caelo	Corn oil, refined	20000641	35058	40
Caelo	Decyl oleate	161071	32194	40
Caelo	Decyl oleate	172156	33671	40
Caelo	Decyl oleate	190883	34472	40
Caelo	Decyl oleate	21003661	36156	40
Caelo	Evening primrose oil, refined	162813	32682	40
Caelo	Evening primrose oil, refined	191644	34604	40
Caelo	Evening primrose oil, refined	191754	34605	40
Caelo	Evening primrose oil, refined	21000915	35270	40
Caelo	Evening primrose oil, refined	20004047	35274	40
Caelo	Evening primrose oil, refined	21003319	36064	40
Caelo	Evening primrose oil, refined	21004228	36173	40
Caelo	Evening primrose oil, refined	22001284	36295	40
Euro OTC	Evening primrose oil, refined	1605027	32463	40
Euro OTC	Evening primrose oil, refined	1703020	33227	40
Euro OTC	Evening primrose oil, refined	1710011	33849	40
Euro OTC	Evening primrose oil, refined	1803006	34095	40
Euro OTC	Evening primrose oil, refined	1901046	34423	40
Euro OTC	Evening primrose oil, refined	1911009	34809	40
Euro OTC	Evening primrose oil, refined	2003029	34832	40
Euro OTC	Evening primrose oil, refined	2008037	35127	40
Euro OTC	Evening primrose oil, refined	2204018	36276	40
Euro OTC	Evening primrose oil, refined	2208015	36565	40
Bombastus	Flaxseed oil, native	22000289	36182	40
Caelo	Flaxseed oil, native	172364	33677	40
Caelo	Flaxseed oil, native	190994	34439	40
Caelo	Flaxseed oil, native	191645	34610	40
Caelo	Flaxseed oil, native	192554	34719	40
Caelo	Flaxseed oil, native	20002039	35052	40
Caelo	Flaxseed oil, native	21001170	35465	40
Caelo	Flaxseed oil, native	21002087	35829	50
Caelo	Flaxseed oil, native	22000432	36172	40
Caelo	Flaxseed oil, native	22001599	36494	40
Caelo	Grape seed oil, refined	16092402	32989	40
Caelo	Grape seed oil, refined	16339703	33475	40
Caelo	Grape seed oil, refined	20001744	35047	40
Caelo	Grape seed oil, refined	21004004	36071	40
Caelo	Grape seed oil, refined	22000818	36157	40
Bombastus	Jojoba Oil, native	22001311	36181	40
Caelo	Jojoba Oil, native	170733	33892	40
Caelo	Jojoba Oil, native	191529	34611	40
Caelo	Jojoba Oil, native	20000722	35040	40
Caelo	Jojoba Oil, native	21001028	35834	50
Caelo	Jojoba Oil, native	22001551	36536	40
Caelo	Laurel oil	14176301	31657	15

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Laurel oil	15216402	31745	60
Caelo	Laurel oil	18028202	33948	40
Caelo	Laurel oil	21004068002	36047	40
Caelo	Laurel oil	22001178	36312	40
Caelo	Oleyl oleate (stabilised)	161049	32202	40
Caelo	Oleyl oleate (stabilised)	173581	33920	40
Bombastus	Olive oil, native	22000660	36197	40
Caelo	Olive oil, native	170387	33068	40
Caelo	Olive oil, native	171216	33306	40
Caelo	Olive oil, native	172365	33674	40
Caelo	Olive oil, native	21000836	35303	40
Caelo	Olive oil, native	21002271	35832	50
Caelo	Olive oil, native	21003239	36069	40
Caelo	Olive oil, native	21004008	36159	40
Caelo	Olive oil, native	22000853	36294	40
Caelo	Olive oil, native	22002033	36492	30
Euro OTC	Olive oil, native	1608006	32709	40
Euro OTC	Olive oil, native	1802011	34005	40
Euro OTC	Olive oil, native	1805023	34183	40
Euro OTC	Olive oil, native	1808026	34215	40
Euro OTC	Olive oil, native	1903013	34495	40
Euro OTC	Olive oil, native	1905018	34653	40
Euro OTC	Olive oil, native	1910015	34752	40
Euro OTC	Olive oil, native	2001005	34806	40
Euro OTC	Olive oil, native	2003050	34830	40
Euro OTC	Olive oil, native	2006034	35064	40
Euro OTC	Olive oil, native	2012004	35244	40
Euro OTC	Olive oil, native	2104011	35492	40
Euro OTC	Olive oil, native	2107030	35628	50
Euro OTC	Olive oil, native	2203021	36283	40
Euro OTC	Olive oil, native	2207017	36366	40
Euro OTC	Olive oil, native	2205033	36370	40
Henry Lamotte	Omega-3-fish oil	1000002824	32734	40
Henry Lamotte	Omega-3-fish oil	1000007067	34124	40
Henry Lamotte	Omega-3-fish oil	1000016012	35475	40
Bombastus	Peanut oil, refined	19005220	35089	40
Bombastus	Peanut oil, refined	22000178	36179	40
Caelo	Peanut oil, refined	161195	32206	40
Caelo	Peanut oil, refined	171690	33315	40
Caelo	Peanut oil, refined	21001091	35281	40
Caelo	Peanut oil, refined	21003839	36073	40
Caelo	Peanut oil, refined	22001375	36311	40
Henry Lamotte	Peanut oil, refined	1000013880	35088	40
Caelo	Pumpkin seed oil, pressed	15410004	32783	40
Caelo	Pumpkin seed oil, pressed	180837	34061	40
Caelo	Pumpkin seed oil, pressed	20003109	35732	50
Caelo	Rapeseed oil, refined	161850	32316	40
Caelo	Rapeseed oil, refined	172139	33673	40
Caelo	Rapeseed oil, refined	20000308	35050	40
Bombastus	Safflower oil, refined type I	21004396	36183	40
Caelo	Safflower oil, refined type I	17092201	33653	40
Caelo	Safflower oil, refined type I	180999	34062	40
Caelo	Sesame oil, refined	163125	33075	40
Caelo	Sesame oil, refined	171777	33313	40
Caelo	Sesame oil, refined	16312505	33618	40
Caelo	Sesame oil, refined	21004230	36165	40
Caelo	Shea butter, refined	17085805	33470	40
Caelo	Shea butter, refined	20001135	35817	50
Caelo	Shea butter, refined	21001422004	36041	40
Euro OTC	Soy lecithin, liquid	1703001-01	33838	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Euro OTC	Soy lecithin, liquid	1803030	34094	40
Caelo	Soy oil, refined	16347104	33462	40
Caelo	Soy oil, refined	20001575	35054	40
Caelo	Soy oil, refined	21001264	35282	40
Caelo	Sunflower oil, refined	162758	32691	40
Caelo	Sunflower oil, refined	191755	34613	40
Caelo	Sunflower oil, refined	20000985	35051	40
Caelo	Sunflower oil, refined	21002312	35776	50
Caelo	Sunflower oil, refined	21003678	36072	40
Caelo	Sunflower oil, refined	22002223	36493	30
Caelo	Sunflower oil, refined	22001514	36537	40
Caelo	Walnut oil, refined	161007	32199	40
Caelo	Walnut oil, refined	16100703	33488	40
Bombastus	Wheatgerm oil, refined	22000002	36177	40
Caelo	Wheatgerm oil, refined	16321301	33489	40
Caelo	Wheatgerm oil, refined	172903	33915	40
Caelo	Wheatgerm oil, refined	20000829	35042	40
Caelo	Wheatgerm oil, refined	22000612	36296	40
Caelo	Grape seed oil, refined	16339703	33476	40

- 104 678 spectra from a total of 2504 batches from further 325 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 27 845 spectra from 1245 *Apo-Ident* customers from 4132 batches from the substance/substance group *Triglycerides*.

- Among them are spectra of independent samples from 4019 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Borage oil, refined, stabili…	123387	1
	Borage oil, refined, stabili…	13170606	1
	Evening primrose oil, refined	150303101	1
	Evening primrose oil, refined	1503031-01	1
	Evening primrose oil, refined	1710011-02	1
	Sesame oil, refined	17332106	1
	Peanut oil, refined	19059208	1
06/20	Almond oil, refined	1000010685	1
14215814	Almond oil, refined	14215814	1
15580138	Peanut oil, refined	1000013880	1
17215601	Decyl oleate	17215601	1
18,01,2021Caesar & Lore…	Almond oil, refined	20001624007	1
200	Evening primrose oil, refined	2008037-01	1
290924	Olive oil, native	290924	2
Abis Pharma/Sanacorp	Shea butter, refined	10-500P/0714	1
Abis-Pharma	Shea butter, refined	22-50P/0919	1
ACM	Codliver oil (type A)	KNC0300J15	1
ACM	Codliver oil (type A)	KNC0302J15	1
ACM	Codliver oil (type A)	KNC0303J15	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
ACM	Flaxseed oil, native	KNC0446J15	1
ACM	Almond oil, refined	KNC0766J15	1
ACM	Almond oil, refined	KNC1100J15	1
ACM	Almond oil, refined	KNC1364J15	1
ACM	Almond oil, refined	KNC1560J16	1
ACM	Olive oil, native	KNC2225J14	1
aelo/Gehe	Evening primrose oil, refined	17255801	2
AEP	Olive oil, native	19006021	1
AEP	Almond oil, refined	19187101	1
AEP	Olive oil, native	21000836002	1
agronF	Peanut oil, refined	19J18-F01-365916	2
AHC03.08.13 EK2,36 100ml	Almond oil, refined	5438302	1
AHD / H.Lamotte	Almond oil, refined	8000712001	1
AHD 18.04.18 Henry Lamo…	Almond oil, refined	8003167001	1
AHD Cealo	Wheatgerm oil, refined	193009004	1
AHD Lamotte GmbH	Olive oil, native	1000010861	2
AHD Lamotte GmbH	Olive oil, native	1000014032	1
AHD, 03.08.2011	Olive oil, native	5372701	1
AHD, 06.05.2013	Peanut oil, refined	12323204	1
AHD/ Henry Lamotte	Almond oil, refined	8000915002	1
AHD/ Lamotte	Almond oil, refined	1000013112	1
AHD/ Lamotte	Almond oil, refined	1000013565	1
AHD/Lamotte	Almond oil, refined	1000010685	1
AHD/Lamotte	Almond oil, refined	1000012126	1
AHD/Lamotte	Jojoba Oil, native	8003732001	1
AHD/Lamotte	Almond oil, refined	8005936002	1
AHD	Sesame oil, refined	1000007221	1
AHD	Evening primrose oil, refined	1000008469	2
AHD	Almond oil, refined	130145	1
AHD	Oleyl oleate (stabilised)	14129003	1
AHD	Almond oil, refined	14139305	1
AHD	Peanut oil, refined	14246901	1
AHD	Jojoba Oil, native	16070606	1
AHD	Flaxseed oil, native	17001535	1
AHD	Peanut oil, refined	17169001	2
AHD	Flaxseed oil, native	18002317	1
AHD	Evening primrose oil, refined	18009114	1
AHD	Almond oil, refined	18015002	1
AHD	Almond oil, refined	18184101	1
AHD	Evening primrose oil, refined	18216201	2
AHD	Evening primrose oil, refined	18216202	2
AHD	Evening primrose oil, refined	18216217	1
AHD	Borage oil, refined, stabili…	18295808	1
AHD	Almond oil, refined	19000779001	1
AHD	Evening primrose oil, refined	19175401	1
AHD	Evening primrose oil, refined	192982001	1
AHD	Evening primrose oil, refined	192982004	1
AHD	Evening primrose oil, refined	20001052001	1
AHD	Codliver oil (type A)	8001765001	1
AHD	Codliver oil (type A)	8002338002	2
AHD	Codliver oil (type A)	8003727001	2
AHL	Almond oil, refined	8003167001	1
AHL	Olive oil, native	8003420001	1
ALH	Sunflower oil, refined	15163805	1
ALH	Almond oil, refined	8001497001	1
Aliance Hearthcave 11.0…	Almond oil, refined	13236402	1
allcura/Noweda	Evening primrose oil, refined		1
allcura	Evening primrose oil, refined	L2641	1
Allcura	Evening primrose oil, refined	1364	1
Allcura	Evening primrose oil, refined	L-387	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Allcura	Evening primrose oil, refined	L-406	1
Allcura	Evening primrose oil, refined	L416	1
Allianc. Health. /bo	Olive oil, native	302523	1
Alliance H.	Almond oil, refined	15409704	1
Alliance Healthcare/Lam...	Almond oil, refined	8001497001	1
Alliance Healthcare	Sesame oil, refined	1000009220	1
Alliance Healthcare	Olive oil, native	1000012617	1
Alliance Healthcare	Olive oil, native	12274108	1
Alliance Healthcare	Peanut oil, refined	13129203	1
Alliance Healthcare	Olive oil, native	13224703	1
Alliance Healthcare	Evening primrose oil, refined	16281315	1
Alliance Healthcare	Shea butter, refined	17085818	1
Alliance Healthcare	Sesame oil, refined	17177703	1
Alliance Healthcare	Sesame oil, refined	17332103	1
Alliance Healthcare	Sesame oil, refined	17332106	1
Alliance Healthcare	Avocado oil, refined	18044910	1
Alliance Healthcare	Decyl oleate	18069402	1
Alliance Healthcare	Oleyl oleate (stabilised)	18272011	1
Alliance Healthcare	Flaxseed oil, native	19002739	1
Alliance Healthcare	Shea butter, refined	192058005	1
Alliance Healthcare	Almond oil, refined	8004039003	1
Alliance Healthcare	Olive oil, native	8004067001	1
Alliance Healthcare	Olive oil, native	8004499001	1
Alliance Healthcare	Evening primrose oil, refined	AP147307N	1
Alliance Healthcare	Grape seed oil, refined	N0000004669	2
Alliance/EuRho	Evening primrose oil, refined	1901046-01	1
Alliance/EuRho	Evening primrose oil, refined	1911009-01	1
Alliance/Henry Lamotte	Olive oil, native	1000012617	1
Alliance/Henry Lamotte	Jojoba Oil, native	8004998001	2
Alliance/Lamotte	Almond oil, refined	8004548002	1
Alliance/Verta	Sesame oil, refined	92011	2
Alliance	Olive oil, native	277050	1
Allianz Healthcare 01.0...	Evening primrose oil, refined	AP562-124N	2
Allianz Healthcare	Olive oil, native	16327402	1
Allianz Healthcare	Olive oil, native	18311910	1
Allianz Healthcare	Olive oil, native	19076109	1
Allianz	Olive oil, native	17361108	1
Allianz	Evening primrose oil, refined	18009106	1
Allianz	Evening primrose oil, refined	18009109	1
Alte Apotheke	Evening primrose oil, refined	15417808	1
Alte Apotheke	Almond oil, refined	16071007	1
AMH Niemann GmbH/Noweda	Olive oil, native	8002366001	1
Andor	Evening primrose oil, refined	AP869-100N	1
Andor	Evening primrose oil, refined	AP920-114N	1
Anzag 06.02.2013	Avocado oil, refined	1208028-01	1
Anzag 07.12.12	Peanut oil, refined	12203803	1
Anzag 09.02.2013	Almond oil, refined	12357101	1
Anzag 15.10.12	Borage oil, refined, stabili...	965-028	2
Anzag 16.01.13 ek.5.13	Peanut oil, refined	5204402	2
Anzag 16.10.12 ek: 3,90EUR	Avocado oil, refined	1204047-01	1
Anzag 17.12.2012	Codliver oil (type A)	12062501	1
Anzag 30.01.13 ek:16,40EUR	Evening primrose oil, refined	1205023-02	1
Anzag 30.04.18	Olive oil, native	17361101	1
Anzag 31.10.12 ek: 2,78EUR	Olive oil, native	12077701	1
Anzag ek:13.04EUR 08.08.12	Evening primrose oil, refined	1205023-01	2
Anzag, 03.01.2019	Almond oil, refined	18000342	1
anzag, 9,45EUR, 19.11.14	Codliver oil (type A)	5693101	1
Anzag, Henry Lamotte	Almond oil, refined	8001497001	1
Anzag/ Henry Lamotte	Almond oil, refined	8004039003	2
Anzag/	Jojoba Oil, native	5115601	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag/Henry Lamotte	Evening primrose oil, refined	145675	1
Anzag/Henry Lamotte	Almond oil, refined	8003885002	1
Anzag/Lamotte	Olive oil, native	1000017999	1
Anzag/Lamotte	Olive oil, native	5623601	1
Anzag/Leyh Pharma am	Almond oil, refined	13236404	1
Anzag	Olive oil, native	12077701	1
Anzag	Olive oil, native	12274104	1
Anzag	Peanut oil, refined	12323204	1
Anzag	Peanut oil, refined	12c30n02	1
Anzag	Peanut oil, refined	12H31N05	1
Anzag	Evening primrose oil, refined	130401812	1
Anzag	Evening primrose oil, refined	13121818	1
Anzag	Peanut oil, refined	13358804	1
Anzag	Peanut oil, refined	15015103	1
anzag	Olive oil, native	15216308	1
Anzag	Olive oil, native	15399706	1
Anzag	Evening primrose oil, refined	16281309	1
Anzag	Olive oil, native	16327403	1
Anzag	Olive oil, native	17121604	1
Anzag	Evening primrose oil, refined	17255801	1
Anzag	Olive oil, native	18002118	1
Anzag	Peanut oil, refined	18208207	1
Anzag	Evening primrose oil, refined	18216202	1
Anzag	Evening primrose oil, refined	18216217	1
Anzag	Evening primrose oil, refined	2008037-01	1
Anzag	Almond oil, refined	219101221	1
Anzag	Olive oil, native	297565	1
Anzag	Jojoba Oil, native	5172601	1
Anzag	Almond oil, refined	5214206	1
ANZAG	Almond oil, refined	5214206	1
Anzag	Codliver oil (type A)	5228001	2
Anzag	Almond oil, refined	8005936002	1
Anzag	Evening primrose oil, refined	AP141023N	1
Anzag	Evening primrose oil, refined	EP745611-1	1
Apo Ident/Fiebig	Evening primrose oil, refined	2008037-01	1
Apo Ident/Noweda	Evening primrose oil, refined	20001052009	1
Apo Ident/Noweda	Evening primrose oil, refined	2003029-01	1
apo ident	Evening primrose oil, refined	1608008-01	3
Apoident /Sanacorp	Evening primrose oil, refined	1901046-01	1
Apoident /Sanacorp	Evening primrose oil, refined	2008037	1
Apoident/ Phoenix	Evening primrose oil, refined	2008037-02	1
apo-ident	Evening primrose oil, refined	1710011-02	1
apo-ident	Evening primrose oil, refined	1803006-01	2
apo-ident	Evening primrose oil, refined	200803702	1
apo-Ident	Evening primrose oil, refined	BTR349512-01	1
Apolda/ Sanacorp	Almond oil, refined	14139309	1
Apolda/ Sanacorp	Almond oil, refined	14215807	1
apomix	Evening primrose oil, refined	1605027-01	1
apomix	Peanut oil, refined	17169001	1
apomix	Olive oil, native	17236508	1
apomix	Almond oil, refined	8003885002	1
Aponorm/Wepa	Peanut oil, refined	17169018	1
Apotheke am Landrain	Olive oil, native		1
Apotheke Hornbach Zentrum	Evening primrose oil, refined	19164407	2
Audor Pharma	Avocado oil, refined	13361414	1
Audor Pharma	Evening primrose oil, refined	140319N	2
Audor Pharma	Evening primrose oil, refined	141023N	3
Audor Pharma	Evening primrose oil, refined	144174	2
Audor Pharma	Evening primrose oil, refined	144330	1
Audor Pharma	Evening primrose oil, refined	144330N	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Audor Pharma	Evening primrose oil, refined	1911009-01	8
Audor Pharma	Almond oil, refined	304023	1
Audor Pharma	Evening primrose oil, refined	392-133N	2
Audor Pharma	Evening primrose oil, refined	869-100N	1
Audor Pharma	Evening primrose oil, refined	AP094-115N	1
Audor Pharma	Evening primrose oil, refined	AP140319	2
Audor Pharma	Evening primrose oil, refined	AP140319N	10
Audor Pharma	Evening primrose oil, refined	AP140319N5300	1
Audor Pharma	Evening primrose oil, refined	AP140319N5341	1
Audor Pharma	Evening primrose oil, refined	AP140319N5383	1
Audor Pharma	Evening primrose oil, refined	AP141023	2
Audor Pharma	Evening primrose oil, refined	AP141023N	12
Audor Pharma	Evening primrose oil, refined	AP141023N5499	1
Audor Pharma	Evening primrose oil, refined	AP141023N5584	1
Audor Pharma	Evening primrose oil, refined	AP144174	2
Audor Pharma	Evening primrose oil, refined	AP144174N	21
Audor Pharma	Evening primrose oil, refined	AP144330N	14
Audor Pharma	Evening primrose oil, refined	AP144330N5736	1
Audor Pharma	Evening primrose oil, refined	AP144330N5770	1
Audor Pharma	Evening primrose oil, refined	AP147307	1
Audor Pharma	Evening primrose oil, refined	Ap147307N	1
Audor Pharma	Evening primrose oil, refined	AP147307N	38
Audor Pharma	Evening primrose oil, refined	AP191-088/1N	1
Audor Pharma	Evening primrose oil, refined	AP191-088N	2
Audor Pharma	Evening primrose oil, refined	AP273116N	1
Audor Pharma	Evening primrose oil, refined	AP273-116N	5
Audor Pharma	Evening primrose oil, refined	AP294-118N	13
Audor Pharma	Evening primrose oil, refined	AP366-108N	3
Audor Pharma	Evening primrose oil, refined	AP392-133N	10
Audor Pharma	Evening primrose oil, refined	AP-392-133N	1
Audor Pharma	Evening primrose oil, refined	AP396-120N	7
Audor Pharma	Evening primrose oil, refined	AP562-124	1
Audor Pharma	Evening primrose oil, refined	AP562-124N	17
Audor Pharma	Evening primrose oil, refined	AP676-078N	1
Audor Pharma	Evening primrose oil, refined	AP788-128N	14
Audor Pharma	Evening primrose oil, refined	AP-788-128N	1
Audor Pharma	Evening primrose oil, refined	AP869-100/1N	1
Audor Pharma	Evening primrose oil, refined	Ap869-100N	1
Audor Pharma	Evening primrose oil, refined	AP869-100N	1
Audor Pharma	Evening primrose oil, refined	AP920-114/1N	1
Audor Pharma	Evening primrose oil, refined	AP920-114N	7
Audor Pharma	Evening primrose oil, refined	APO1244174N	1
Audor Pharma	Evening primrose oil, refined	BTR349512-01	2
Aurica Vital	Borage oil, refined, stabili...	28/05/15	1
Aurica Vital	Borage oil, refined, stabili...	Z13902/A	1
Aurica Vital	Borage oil, refined, stabili...	Z14456	1
Aurica Vital	Borage oil, refined, stabili...	Z14966	1
Aurica Vital	Borage oil, refined, stabili...	ZR1287	1
Aurica/ Noweda	Borage oil, refined, stabili...	ZR1540	1
Aurica/Noweda	Borage oil, refined, stabili...	957-038	1
Aurica	Borage oil, refined, stabili...	201674	1
Aurica	Borage oil, refined, stabili...	Z13902/A	1
Azett GmbH/AHD	Jojoba Oil, native	190217	1
Bahnhofapotheke Kempten...	Shea butter, refined	G16FGFI	1
Bahnhof-Apotheke	Almond oil, refined	-30-160809	1
Bambastus/ Anzag	Peanut oil, refined	19005220	3
bambastus	Almond oil, refined	21003336	2
Bambastus-Werke AG/Phönix	Olive oil, native	19001848	1
Bambastus-Werke AG/Phönix	Olive oil, native	20000171	1
Beiersdorf AG/Geilenkir...	Olive oil, native	291374	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Beiersdorf	Almond oil, refined	17207905	1
Bergland / Krieger	Evening primrose oil, refined	1072021/1	1
Bergland/Anzag	Evening primrose oil, refined	H500690	1
Bergland/Phönix	Evening primrose oil, refined	H302605	1
Bergland/Phönix	Evening primrose oil, refined	K501908	1
Bergland	Borage oil, refined, stabili...	H300590	2
Bergland	Evening primrose oil, refined	K6013776	1
Bergland	Evening primrose oil, refined	K702516	1
Bergland	Evening primrose oil, refined	K800621	1
Bergland-Pharma	Borage oil, refined, stabili...	H103019	2
Biofrid/Kehr	Jojoba Oil, native	1127	1
Bionorica ethics/Allian...	Olive oil, native	18005453	1
Bionorica ethics/Noweda	Olive oil, native	21004461	1
Bionorica ethics	Evening primrose oil, refined	1901046-01	2
Bionorica/Phönix	Almond oil, refined	18070602	1
Biopräp / GEHE	Almond oil, refined	E1403027	1
Biopräp / GEHE	Almond oil, refined	E1410088	1
BioPräp/Phoenix 08.03.2...	Jojoba Oil, native	1711193	1
Biopräp/Phönix	Almond oil, refined	E1805161	1
BioPräp	Almond oil, refined	E151oo42	1
BioPräp	Almond oil, refined	E1610090	1
biopräp	Almond oil, refined	E1810144	1
BioPräp	Almond oil, refined	E1902011	1
Bomastus/Phönix	Olive oil, native	302523	1
Bomastus/Phönix	Avocado oil, refined	309826	2
Bomastus	Olive oil, native	17001926	1
Bomastus-Werke AG	Olive oil, native	308230	1
Bomb/ Noweda	Flaxseed oil, native	290569	1
Bomba/Phönix	Olive oil, native	18003205	1
Bomba/Phönix	Olive oil, native	19006021	1
Bombas/AHD	Olive oil, native	20003375	1
Bombast/Noweda	Olive oil, native	289095	1
Bombast/Phönix	Almond oil, refined	18000342	1
Bombast/Sanacorp	Olive oil, native	1000014032	1
Bombast/Sanacorp	Olive oil, native	19002973	1
Bombastu/Phönix	Almond oil, refined	18006808	2
Bombastud vdL	Olive oil, native	291374	2
Bombastus	Evening primrose oil, refined	1000003443	3
Bombastus	Corn oil, refined	10032015A	1
Bombastus	Almond oil, refined	108000342	1
Bombastus	Olive oil, native	108230	1
Bombastus	Olive oil, native	110816-1	1
Bombastus	Olive oil, native	111405	1
Bombastus	Olive oil, native	12274106	1
Bombastus	Evening primrose oil, refined	12325114	1
Bombastus	Almond oil, refined	1233test	1
Bombastus	Evening primrose oil, refined	13121806	1
Bombastus	Evening primrose oil, refined	133339	1
Bombastus	Flaxseed oil, native	14087902	1
Bombastus	Flaxseed oil, native	14087903	1
Bombastus	Olive oil, native	14118604	1
Bombastus	Almond oil, refined	14139305	1
Bombastus	Olive oil, native	14306904	1
Bombastus	Almond oil, refined	1509710	1
Bombastus	Evening primrose oil, refined	15171108	1
Bombastus	Evening primrose oil, refined	15171110	1
Bombastus	Almond oil, refined	15197406	1
Bombastus	Almond oil, refined	15197407	1
Bombastus	Almond oil, refined	15197409	1
Bombastus	Almond oil, refined	15197412	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Borage oil, refined, stabili...	15305001	1
Bombastus	Olive oil, native	15399702	1
Bombastus	Flaxseed oil, native	15415904	1
Bombastus	Jojoba Oil, native	16070610	1
Bombastus	Peanut oil, refined	16071104	1
Bombastus	Almond oil, refined	16115303	1
Bombastus	Olive oil, native	16212801	1
Bombastus	Evening primrose oil, refined	16281315	1
Bombastus	Almond oil, refined	16327302	4
Bombastus	Almond oil, refined	16327311	1
Bombastus	Flaxseed oil, native	17000381	3
Bombastus	Almond oil, refined	17000424	1
Bombastus	Almond oil, refined	17000425	3
Bombastus	Almond oil, refined	17000426	6
Bombastus	Peanut oil, refined	17001078	3
Bombastus	Flaxseed oil, native	170015335500	1
Bombastus	Flaxseed oil, native	17001535	1
Bombastus	Olive oil, native	17001888	7
Bombastus	Olive oil, native	17001926	48
Bombastus	Apricot kernel oil, refined	17002074	1
Bombastus	Flaxseed oil, native	17002088	1
Bombastus	Flaxseed oil, native	17002089	3
Bombastus	Evening primrose oil, refined	1703020-01	1
Bombastus	Evening primrose oil, refined	1710011-01	1
Bombastus	Olive oil, native	17121604	1
Bombastus	Peanut oil, refined	17169010	1
Bombastus	Almond oil, refined	17176507	1
Bombastus	Shea butter, refined	17287502	2
Bombastus	Olive oil, native	18000212	2
Bombastus	Almond oil, refined	18000340	1
Bombastus	Almond oil, refined	18000341	4
Bombastus	Almond oil, refined	180003415618	1
Bombastus	Almond oil, refined	18000342	12
Bombastus	Wheatgerm oil, refined	18000536	4
Bombastus	Flaxseed oil, native	18000694	3
Bombastus	Flaxseed oil, native	180017195740	1
Bombastus	Flaxseed oil, native	18001721	2
Bombastus	Jojoba Oil, native	18001734	1
Bombastus	Almond oil, refined	18001780	6
Bombastus	Almond oil, refined	18001781	12
Bombastus	Almond oil, refined	18001782	12
Bombastus	Olive oil, native	18002118	3
Bombastus	Olive oil, native	18002119	49
Bombastus	Peanut oil, refined	18002249	10
Bombastus	Peanut oil, refined	18002250	1
Bombastus	Wheatgerm oil, refined	1800243	1
Bombastus	Wheatgerm oil, refined	18002442	1
Bombastus	Avocado oil, refined	18002515	4
Bombastus	Olive oil, native	18003204	13
Bombastus	Olive oil, native	18003205	68
Bombastus	Almond oil, refined	1800342	1
Bombastus	Flaxseed oil, native	18003462	1
Bombastus	Flaxseed oil, native	18003463	2
Bombastus	Avocado oil, refined	18003611	4
Bombastus	Jojoba Oil, native	18003615	4
Bombastus	Jojoba Oil, native	18003617	1
Bombastus	Almond oil, refined	18004501	2
Bombastus	Almond oil, refined	18004502	8
Bombastus	Almond oil, refined	18004503	9
Bombastus	Peanut oil, refined	18004538	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wheatgerm oil, refined	1800524	1
Bombastus	Sunflower oil, refined	18005423	3
Bombastus	Olive oil, native	18005452	11
Bombastus	Olive oil, native	18005453	62
Bombastus	Peanut oil, refined	18005645	8
Bombastus	Apricot kernel oil, refined	18006799	2
Bombastus	Almond oil, refined	18006806	1
Bombastus	Almond oil, refined	18006807	8
Bombastus	Almond oil, refined	18006808	8
Bombastus	Peanut oil, refined	18014402	1
Bombastus	Peanut oil, refined	18014405	1
Bombastus	Evening primrose oil, refined	1803006-01	1
Bombastus	Olive oil, native	18208106	1
Bombastus	Olive oil, native	185(308229)	1
Bombastus	Olive oil, native	186(17001888)	1
Bombastus	Olive oil, native	187(18005452)	1
Bombastus	Olive oil, native	189(20001864)	1
Bombastus	Olive oil, native	190000227	1
Bombastus	Safflower oil, refined type I	19000029	2
Bombastus	Peanut oil, refined	19000224	7
Bombastus	Olive oil, native	19000226	6
Bombastus	Olive oil, native	19000227	42
Bombastus	Sunflower oil, refined	19000395	2
Bombastus	Avocado oil, refined	19000722	3
Bombastus	Flaxseed oil, native	19001510	1
Bombastus	Almond oil, refined	19001702	12
Bombastus	Almond oil, refined	19001703	2
Bombastus	Wheatgerm oil, refined	19001748	2
Bombastus	Olive oil, native	19001847	2
Bombastus	Olive oil, native	19001848	33
Bombastus	Peanut oil, refined	19001936	3
Bombastus	Peanut oil, refined	19002489	1
Bombastus	Flaxseed oil, native	19002738	1
Bombastus	Flaxseed oil, native	19002739	2
Bombastus	Olive oil, native	19002973	12
Bombastus	Olive oil, native	19002974	69
Bombastus	Wheatgerm oil, refined	19003005	1
Bombastus	Sunflower oil, refined	19003337	1
Bombastus	Sunflower oil, refined	19003338	3
Bombastus	Almond oil, refined	19003889	12
Bombastus	Almond oil, refined	19003890	6
Bombastus	Almond oil, refined	19003906	2
Bombastus	Safflower oil, refined type I	19003935	5
Bombastus	Flaxseed oil, native	19004013	4
Bombastus	Apricot kernel oil, refined	19004099	5
Bombastus	Sunflower oil, refined	19005126	4
Bombastus	Peanut oil, refined	19005220	3
Bombastus	Olive oil, native	19005404	4
Bombastus	Almond oil, refined	19005416	1
Bombastus	Almond oil, refined	19005859	13
Bombastus	Almond oil, refined	19005860	8
Bombastus	Olive oil, native	19006020	7
Bombastus	Olive oil, native	19006021	44
Bombastus	Flaxseed oil, native	19006028	1
Bombastus	Olive oil, native	1900621	1
Bombastus	Almond oil, refined	19006436	2
Bombastus	Olive oil, native	190451504	1
Bombastus	Almond oil, refined	1905860	1
Bombastus	Olive oil, native	190692406	1
Bombastus	Olive oil, native	20000170	14

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Olive oil, native	20000171	26
Bombastus	Olive oil, native	200001867	1
Bombastus	Almond oil, refined	20000844	5
Bombastus	Almond oil, refined	20000845	12
Bombastus	Almond oil, refined	2000085	1
Bombastus	Wheatgerm oil, refined	20000929	1
Bombastus	Sunflower oil, refined	20001463	3
Bombastus	Almond oil, refined	20001466	1
Bombastus	Peanut oil, refined	20001707	2
Bombastus	Peanut oil, refined	20001708	2
Bombastus	Avocado oil, refined	20001740	5
Bombastus	Olive oil, native	20001864	5
Bombastus	Olive oil, native	20001867	25
Bombastus	Apricot kernel oil, refined	20001970	1
Bombastus	Sunflower oil, refined	20002635	1
Bombastus	Olive oil, native	20002914	2
Bombastus	Olive oil, native	20002915	18
Bombastus	Almond oil, refined	20003200	5
Bombastus	Almond oil, refined	20003201	12
Bombastus	Safflower oil, refined type I	20003302	2
Bombastus	Olive oil, native	20003374	4
Bombastus	Olive oil, native	20003375	22
Bombastus	Peanut oil, refined	20003735	1
Bombastus	Flaxseed oil, native	20003792	1
Bombastus	Sunflower oil, refined	20003804	1
Bombastus	Olive oil, native	20004027	1
Bombastus	Olive oil, native	20004028	5
Bombastus	Flaxseed oil, native	20004426	3
Bombastus	Olive oil, native	2000472	1
Bombastus	Olive oil, native	20004725	2
Bombastus	Olive oil, native	20004726	13
Bombastus	Almond oil, refined	20005067	3
Bombastus	Almond oil, refined	20005068	4
Bombastus	Olive oil, native	20005317	4
Bombastus	Olive oil, native	20005318	10
Bombastus	Olive oil, native	20005599	1
Bombastus	Olive oil, native	20005601	20
Bombastus	Almond oil, refined	20005608	1
Bombastus	Olive oil, native	2003375	1
Bombastus	Avocado oil, refined	2091235000130	1
Bombastus	Safflower oil, refined type I	21000062	4
Bombastus	Peanut oil, refined	21000287	1
Bombastus	Almond oil, refined	21000527	2
Bombastus	Sunflower oil, refined	21000550	1
Bombastus	Almond oil, refined	21001187	5
Bombastus	Almond oil, refined	21001188	3
Bombastus	Olive oil, native	21001644	17
Bombastus	Almond oil, refined	21003336	4
Bombastus	Olive oil, native	21003356	4
Bombastus	Olive oil, native	210033560	1
Bombastus	Olive oil, native	21004460	1
Bombastus	Olive oil, native	21004461	3
Bombastus	Olive oil, native	21005266	1
Bombastus	Olive oil, native	21005267	3
Bombastus	Olive oil, native	2100567	1
Bombastus	Olive oil, native	211102(20005317)	1
Bombastus	Almond oil, refined	22000137	2
Bombastus	Olive oil, native	22000660	4
Bombastus	Olive oil, native	220905(22000659)	1
Bombastus	Olive oil, native	2519I-02000	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Peanut oil, refined	263129	1
Bombastus	Almond oil, refined	264164	1
Bombastus	Peanut oil, refined	264328	1
Bombastus	Olive oil, native	265359	1
Bombastus	Flaxseed oil, native	266111	1
Bombastus	Olive oil, native	266513	1
Bombastus	Peanut oil, refined	266753	1
Bombastus	Almond oil, refined	267099	2
Bombastus	Olive oil, native	267376	3
Bombastus	Avocado oil, refined	267660	1
Bombastus	Jojoba Oil, native	267834	1
Bombastus	Peanut oil, refined	267966	4
Bombastus	Olive oil, native	268118	1
Bombastus	Avocado oil, refined	268579	1
Bombastus	Olive oil, native	269674	1
Bombastus	Almond oil, refined	270829	1
Bombastus	Olive oil, native	270970	4
Bombastus	Olive oil, native	270971	2
Bombastus	Sunflower oil, refined	271457	1
Bombastus	Peanut oil, refined	271512	3
Bombastus	Flaxseed oil, native	271645	2
Bombastus	Olive oil, native	272270	2
Bombastus	Flaxseed oil, native	272528	1
Bombastus	Almond oil, refined	273578	4
Bombastus	Olive oil, native	273659	3
Bombastus	Olive oil, native	273871	5
Bombastus	Sunflower oil, refined	274107	1
Bombastus	Olive oil, native	274236	7
Bombastus	Almond oil, refined	274564	1
Bombastus	Flaxseed oil, native	274875	1
Bombastus	Apricot kernel oil, refined	274930	1
Bombastus	Avocado oil, refined	274935	1
Bombastus	Flaxseed oil, native	275487	2
Bombastus	Olive oil, native	275757	2
Bombastus	Sunflower oil, refined	275830	1
Bombastus	Peanut oil, refined	276103	2
Bombastus	Flaxseed oil, native	276105	1
Bombastus	Flaxseed oil, native	276106	1
Bombastus	Jojoba Oil, native	276323	1
Bombastus	Olive oil, native	276542	2
Bombastus	Flaxseed oil, native	276727	2
Bombastus	Olive oil, native	277049	1
Bombastus	Olive oil, native	277050	9
Bombastus	Almond oil, refined	277912	2
Bombastus	Almond oil, refined	277971	4
Bombastus	Olive oil, native	278583	10
Bombastus	Almond oil, refined	279230	1
Bombastus	Olive oil, native	279608	5
Bombastus	Olive oil, native	279609	7
Bombastus	Flaxseed oil, native	280711	1
Bombastus	Almond oil, refined	281039	1
Bombastus	Almond oil, refined	281040	5
Bombastus	Olive oil, native	281209	4
Bombastus	Jojoba Oil, native	281299	1
Bombastus	Flaxseed oil, native	281489	2
Bombastus	Almond oil, refined	281765	1
Bombastus	Sunflower oil, refined	281796	2
Bombastus	Olive oil, native	281898	5
Bombastus	Almond oil, refined	282093	3
Bombastus	Almond oil, refined	282171	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Flaxseed oil, native	282391	1
Bombastus	Olive oil, native	282963	9
Bombastus	Wheatgerm oil, refined	283449	1
Bombastus	Olive oil, native	283762	3
Bombastus	Almond oil, refined	283800	2
Bombastus	Almond oil, refined	283801	2
Bombastus	Peanut oil, refined	283866	1
Bombastus	Olive oil, native	284143	2
Bombastus	Olive oil, native	284144	7
Bombastus	Peanut oil, refined	284286	5
Bombastus	Almond oil, refined	284967	2
Bombastus	Almond oil, refined	284968	1
Bombastus	Flaxseed oil, native	285121	1
Bombastus	Olive oil, native	285160	1
Bombastus	Sunflower oil, refined	285243	1
Bombastus	Olive oil, native	285642	1
Bombastus	Sunflower oil, refined	285712	2
Bombastus	Olive oil, native	285942	10
Bombastus	Almond oil, refined	286253	2
Bombastus	Almond oil, refined	286254	5
Bombastus	Peanut oil, refined	286393	5
Bombastus	Avocado oil, refined	286519	1
Bombastus	Olive oil, native	286533	8
Bombastus	Wheatgerm oil, refined	286986	1
Bombastus	Olive oil, native	287259	9
Bombastus	Olive oil, native	287259Noweda	1
Bombastus	Almond oil, refined	287416	1
Bombastus	Flaxseed oil, native	288025	1
Bombastus	Almond oil, refined	288428	3
Bombastus	Almond oil, refined	288471	3
Bombastus	Peanut oil, refined	288510	3
Bombastus	Olive oil, native	288752	6
Bombastus	Olive oil, native	289094	5
Bombastus	Olive oil, native	289095	6
Bombastus	Wheatgerm oil, refined	289212	1
Bombastus	Avocado oil, refined	289240	2
Bombastus	Olive oil, native	28963	1
Bombastus	Almond oil, refined	289709	1
Bombastus	Almond oil, refined	290135	1
Bombastus	Almond oil, refined	290136	1
Bombastus	Olive oil, native	290403	10
Bombastus	Olive oil, native	290924	15
Bombastus	Flaxseed oil, native	291126	1
Bombastus	Sunflower oil, refined	291278	1
Bombastus	Olive oil, native	291374	10
Bombastus	Almond oil, refined	291509	5
Bombastus	Peanut oil, refined	291671	4
Bombastus	Flaxseed oil, native	291900	1
Bombastus	Olive oil, native	292369	24
Bombastus	Almond oil, refined	292591	4
Bombastus	Almond oil, refined	292592	6
Bombastus	Sunflower oil, refined	292956	1
Bombastus	Flaxseed oil, native	293950	1
Bombastus	Olive oil, native	294034	19
Bombastus	Olive oil, native	294035	2
Bombastus	Jojoba Oil, native	294112	3
Bombastus	Avocado oil, refined	294183	4
Bombastus	Almond oil, refined	294784	4
Bombastus	Peanut oil, refined	29527	1
Bombastus	Peanut oil, refined	295272	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Olive oil, native	295282	4
Bombastus	Olive oil, native	295283	24
Bombastus	Wheatgerm oil, refined	295374	1
Bombastus	Almond oil, refined	295615	3
Bombastus	Almond oil, refined	295616	5
Bombastus	Sunflower oil, refined	295818	2
Bombastus	Olive oil, native	296259	3
Bombastus	Olive oil, native	296260	18
Bombastus	Almond oil, refined	296518	3
Bombastus	Almond oil, refined	296519	2
Bombastus	Flaxseed oil, native	296730	1
Bombastus	Olive oil, native	297227	5
Bombastus	Peanut oil, refined	297242	4
Bombastus	Flaxseed oil, native	297286	2
Bombastus	Olive oil, native	297564	4
Bombastus	Olive oil, native	297565	7
Bombastus	Jojoba Oil, native	297760	3
Bombastus	Almond oil, refined	297872	3
Bombastus	Olive oil, native	298007	7
Bombastus	Olive oil, native	298008	10
Bombastus	Sunflower oil, refined	298487	1
Bombastus	Avocado oil, refined	298491	1
Bombastus	Almond oil, refined	298744	2
Bombastus	Almond oil, refined	298745	10
Bombastus	Peanut oil, refined	299136	7
Bombastus	Almond oil, refined	299598	1
Bombastus	Sunflower oil, refined	299712	1
Bombastus	Olive oil, native	299817	5
Bombastus	Olive oil, native	29992915	1
Bombastus	Peanut oil, refined	30008	1
Bombastus	Olive oil, native	300219	5
Bombastus	Olive oil, native	300220	18
Bombastus	Flaxseed oil, native	300307	1
Bombastus	Avocado oil, refined	300403	3
Bombastus	Almond oil, refined	300840	1
Bombastus	Almond oil, refined	300841	3
Bombastus	Peanut oil, refined	30100	1
Bombastus	Peanut oil, refined	301000	1
Bombastus	Olive oil, native	301099	10
Bombastus	Olive oil, native	301100	28
Bombastus	Olive oil, native	3011000	2
Bombastus	Wheatgerm oil, refined	301382	1
Bombastus	Wheatgerm oil, refined	301383	1
Bombastus	Jojoba Oil, native	301651	1
Bombastus	Peanut oil, refined	302017	5
Bombastus	Olive oil, native	302073	5
Bombastus	Apricot kernel oil, refined	302095	2
Bombastus	Almond oil, refined	302209	1
Bombastus	Almond oil, refined	302210	5
Bombastus	Almond oil, refined	302211	7
Bombastus	Flaxseed oil, native	302269	2
Bombastus	Sunflower oil, refined	302347	1
Bombastus	Olive oil, native	302521	28
Bombastus	Olive oil, native	302522	4
Bombastus	Olive oil, native	302523	17
Bombastus	Flaxseed oil, native	303096	3
Bombastus	Flaxseed oil, native	303440	2
Bombastus	Olive oil, native	303449	37
Bombastus	Peanut oil, refined	303460	5
Bombastus	Almond oil, refined	304023	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Almond oil, refined	304024	3
Bombastus	Olive oil, native	304111	10
Bombastus	Olive oil, native	304112	1
Bombastus	Olive oil, native	304113	15
Bombastus	Flaxseed oil, native	304454	2
Bombastus	Olive oil, native	305001	81
Bombastus	Olive oil, native	305002	9
Bombastus	Olive oil, native	305003	25
Bombastus	Wheatgerm oil, refined	305122	2
Bombastus	Flaxseed oil, native	305183	1
Bombastus	Peanut oil, refined	305319	3
Bombastus	Flaxseed oil, native	306179	3
Bombastus	Jojoba Oil, native	306279	1
Bombastus	Almond oil, refined	306290	1
Bombastus	Almond oil, refined	306291	3
Bombastus	Almond oil, refined	306292	5
Bombastus	Avocado oil, refined	306789	1
Bombastus	Olive oil, native	306948	23
Bombastus	Olive oil, native	306949	10
Bombastus	Olive oil, native	306950	21
Bombastus	Olive oil, native	307103	19
Bombastus	Flaxseed oil, native	307115	1
Bombastus	Wheatgerm oil, refined	307209	1
Bombastus	Wheatgerm oil, refined	307210	2
Bombastus	Peanut oil, refined	307254	1
Bombastus	Almond oil, refined	307297	2
Bombastus	Almond oil, refined	307298	6
Bombastus	Almond oil, refined	307299	10
Bombastus	Peanut oil, refined	307541	7
Bombastus	Apricot kernel oil, refined	307653	1
Bombastus	Flaxseed oil, native	3079865304	1
Bombastus	Flaxseed oil, native	307988	1
Bombastus	Olive oil, native	30820	1
Bombastus	Olive oil, native	308229	9
Bombastus	Olive oil, native	308230	78
Bombastus	Olive oil, native	308230-20170704Ma13	1
Bombastus	Olive oil, native	308230-20171106Ma7	1
Bombastus	Flaxseed oil, native	308634	3
Bombastus	Almond oil, refined	308918	4
Bombastus	Almond oil, refined	308919	5
Bombastus	Almond oil, refined	3089195381	1
Bombastus	Almond oil, refined	308920	5
Bombastus	Wheatgerm oil, refined	309093	1
Bombastus	Sunflower oil, refined	309255	1
Bombastus	Sunflower oil, refined	309256	2
Bombastus	Jojoba Oil, native	309479	1
Bombastus	Jojoba Oil, native	309480	1
Bombastus	Safflower oil, refined type I	309851	2
Bombastus	Peanut oil, refined	310007	6
Bombastus	Peanut oil, refined	310008	2
Bombastus	Almond oil, refined	310859	2
Bombastus	Olive oil, native	310866	4
Bombastus	Olive oil, native	310868	46
Bombastus	Olive oil, native	310868x2	1
Bombastus	Wheatgerm oil, refined	311302	2
Bombastus	Olive oil, native	4328413	1
Bombastus	Olive oil, native	4613M-02000	1
Bombastus	Almond oil, refined	47/2014	1
Bombastus	Olive oil, native	4812A-02000	1
Bombastus	Olive oil, native	60081503	15

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Almond oil, refined	60083010	1
Bombastus	Olive oil, native	6861565	1
Bombastus	Olive oil, native	6861571	5
Bombastus	Olive oil, native	68615710	1
Bombastus	Almond oil, refined	6862010	2
Bombastus	Codliver oil (type A)	8001176004	1
Bombastus	Almond oil, refined	8002653001	2
Bombastus	Almond oil, refined	8004039003	1
Bombastus	Olive oil, native	8004251002	1
Bombastus	Olive oil, native	8022014A	1
Bombastus	Peanut oil, refined	80370408	2
Bombastus	Peanut oil, refined	8273799	1
Bombastus	Olive oil, native	9005020	1
Bombastus	Olive oil, native	bombastus/21001644	1
Bombastus	Olive oil, native	oo270970	1
Bombastus	Shea butter, refined	SB1747	1
Bombstus/Phönix	Olive oil, native	18002119	1
Bombstus	Peanut oil, refined	17001078	1
Bombstus	Olive oil, native	18005453	1
Bombstus	Olive oil, native	308230	2
Boombastus	Olive oil, native	19002974	1
Bremen / Noweda	Codliver oil (type A)	5529601	1
BREMER SCHLÜSSEL/ Noweda	Codliver oil (type A)	5437202	1
Bremer Schlüssel/Phönix	Sesame oil, refined	1000007221	1
BremerSchlüssel Phoenix	Codliver oil (type A)	8003727001	2
Brücken-Apotheke	Olive oil, native	288752	2
Cae	Olive oil, native	12141309	1
Cae	Evening primrose oil, refined	14002501	1
Cae	Oleyl oleate (stabilised)	15321701	1
cae	Shea butter, refined	18222305	1
Caeleo/ Krieger	Olive oil, native	18121101	1
Caeli/Alliance	Avocado oil, refined	18044901	1
Caelo	Olive oil, native		26
Caelo	Borage oil, refined, stabili...	1(18295808)	1
Caelo	Almond oil, refined	1000003242	4
Caelo	Evening primrose oil, refined	1000003443	1
Caelo	Almond oil, refined	1000004431	7
Caelo	Avocado oil, refined	1000005537	2
Caelo	Sesame oil, refined	1000005858	1
Caelo	Borage oil, refined, stabili...	1000006595	1
Caelo	Sesame oil, refined	1000007221	1
Caelo	Sesame oil, refined	1000009220	9
Caelo	Almond oil, refined	1000010093	4
Caelo	Almond oil, refined	1000010685	2
Caelo	Sesame oil, refined	1000010906	1
Caelo	Almond oil, refined	1000012126	1
Caelo	Olive oil, native	1000012617	1
Caelo	Peanut oil, refined	1000012961	2
Caelo	Codliver oil (type A)	1000013131	2
Caelo	Peanut oil, refined	1000013880	1
Caelo	Peanut oil, refined	1000014700	2
Caelo	Sesame oil, refined	100015599	1
Caelo	Sesame oil, refined	10011503	1
Caelo	Olive oil, native	1001848	1
Caelo	Codliver oil (type A)	10031501	1
Caelo	Codliver oil (type A)	10061302	1
Caelo	Codliver oil (type A)	10061501	1
Caelo	Almond oil, refined	10061502	1
Caelo	Jojoba Oil, native	10071307	1
Caelo	Codliver oil (type A)	10101207	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	10101404	1
Caelo	Olive oil, native	10111201	1
Caelo	Shea butter, refined	10133305	2
Caelo	Peanut oil, refined	1013A-01954	2
Caelo	Almond oil, refined	10131-01950	1
Caelo	Peanut oil, refined	102(17169001)	1
Caelo	Peanut oil, refined	10208605	1
Caelo	Grape seed oil, refined	10222901	1
Caelo	Sesame oil, refined	10241803	1
Caelo	Evening primrose oil, refined	10281314	1
Caelo	Peanut oil, refined	103(18296001)	1
Caelo	Olive oil, native	1031302	1
Caelo	Walnut oil, refined	10328802	1
Caelo	Almond oil, refined	1041703	1
Caelo	Codliver oil (type A)	1041704	1
Caelo	Almond oil, refined	1042204	1
Caelo	Evening primrose oil, refined	1052001	1
Caelo	Peanut oil, refined	107063	1
Caelo	Evening primrose oil, refined	108009103	1
Caelo	Almond oil, refined	1080517/16327302	1
Caelo	Olive oil, native	1081402	1
Caelo	Almond oil, refined	109000779004	1
Caelo	Olive oil, native	10976109	1
Caelo	Sunflower oil, refined	11000605	2
Caelo	Borage oil, refined, stabili…	11002607	1
Caelo	Olive oil, native	1100616	1
Caelo	Evening primrose oil, refined	11019201	1
Caelo	Olive oil, native	11031706	1
Caelo	Codliver oil (type A)	11051705	1
Caelo	Olive oil, native	11063901	1
Caelo	Olive oil, native	11063906	1
Caelo	Jojoba Oil, native	11078605	2
Caelo	Jojoba Oil, native	11078606	1
Caelo	Codliver oil (type A)	11081202	1
Caelo	Sesame oil, refined	11081513	1
Caelo	Peanut oil, refined	11100201	2
Caelo	Olive oil, native	11121701	1
Caelo	Almond oil, refined	1113E-01950	1
Caelo	Avocado oil, refined	11147607	1
Caelo	Peanut oil, refined	11163201	1
Caelo	Walnut oil, refined	11167103	1
Caelo	Sesame oil, refined	11224108	2
Caelo	Olive oil, native	11227001	1
Caelo	Olive oil, native	11227002	2
Caelo	Olive oil, native	11227011	1
Caelo	Avocado oil, refined	11227207	1
Caelo	Wheatgerm oil, refined	11227305	2
Caelo	Almond oil, refined	11227406	1
Caelo	Almond oil, refined	11227407	1
Caelo	Peanut oil, refined	11254503	1
Caelo	Borage oil, refined, stabili…	11260102	2
Caelo	Borage oil, refined, stabili…	11260106	2
Caelo	Corn oil, refined	11267907	1
Caelo	Oleyl oleate (stabilised)	11292610	1
Caelo	Almond oil, refined	1131303	1
Caelo	Grape seed oil, refined	11313605	1
Caelo	Peanut oil, refined	11313905	4
Caelo	Peanut oil, refined	11313906	2
Caelo	Almond oil, refined	11314201	1
Caelo	Almond oil, refined	11314206	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Almond oil, refined	11314208	1
Caelo	Almond oil, refined	11314209	2
Caelo	Almond oil, refined	11314210	1
Caelo	Codliver oil (type A)	11315302	1
Caelo	Codliver oil (type A)	11315303	1
Caelo	Shea butter, refined	11346509	1
Caelo	Shea butter, refined	11346514	1
Caelo	Jojoba Oil, native	11358102	1
Caelo	Jojoba Oil, native	11358103	1
Caelo	Almond oil, refined	11358910	1
Caelo	Olive oil, native	11376905	3
Caelo	Olive oil, native	11376906	3
Caelo	Olive oil, native	114Q-02000	1
Caelo	Almond oil, refined	1176501	1
Caelo	Codliver oil (type A)	119929	2
Caelo	Codliver oil (type A)	12009301	1
Caelo	Codliver oil (type A)	12009302	5
Caelo	Codliver oil (type A)	12009308	2
Caelo	Sunflower oil, refined	12009804	3
Caelo	Olive oil, native	12021822	1
Caelo	Borage oil, refined, stabili…	12027004	1
Caelo	Borage oil, refined, stabili…	12027008	2
Caelo	Evening primrose oil, refined	12031604	1
Caelo	Evening primrose oil, refined	12032901	1
Caelo	Evening primrose oil, refined	12032906	2
Caelo	Evening primrose oil, refined	12032908	1
Caelo	Evening primrose oil, refined	12032912	2
Caelo	Evening primrose oil, refined	12032913	2
Caelo	Flaxseed oil, native	12041701	1
Caelo	Olive oil, native	12041801	10
Caelo	Almond oil, refined	12041802	1
Caelo	Almond oil, refined	12041803	3
Caelo	Peanut oil, refined	12041902	10
Caelo	Evening primrose oil, refined	120502302	1
Caelo	Evening primrose oil, refined	1205023-02	2
Caelo	Evening primrose oil, refined	120543078-13	1
Caelo	Rapeseed oil, refined	12054406	2
Caelo	Sesame oil, refined	12054501	1
Caelo	Sesame oil, refined	12054508	3
Caelo	Codliver oil (type A)	12062501	11
Caelo	Avocado oil, refined	12064802	3
Caelo	Avocado oil, refined	12064804	3
Caelo	Avocado oil, refined	12064810	2
Caelo	Avocado oil, refined	12064812	2
Caelo	Avocado oil, refined	12064813	3
Caelo	Oleyl oleate (stabilised)	12067701	1
Caelo	Oleyl oleate (stabilised)	12067704	4
Caelo	Oleyl oleate (stabilised)	12067705	1
Caelo	Peanut oil, refined	1207211954	1
Caelo	Olive oil, native	12077701	12
Caelo	Olive oil, native	12077702	2
Caelo	Olive oil, native	120777027-13	1
Caelo	Olive oil, native	1207771	1
Caelo	Almond oil, refined	12080801	3
Caelo	Peanut oil, refined	12080802	4
Caelo	Almond oil, refined	12080803	7
Caelo	Almond oil, refined	12080806	6
Caelo	Olive oil, native	12081701	1
Caelo	Olive oil, native	12091803	1
Caelo	Avocado oil, refined	12091807	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	1210012-01	2
Caelo	Evening primrose oil, refined	1210012-02	1
Caelo	Peanut oil, refined	12101502	3
Caelo	Peanut oil, refined	12101503	8
Caelo	Evening primrose oil, refined	12112901	1
Caelo	Evening primrose oil, refined	12112902	2
Caelo	Evening primrose oil, refined	12112903	1
Caelo	Evening primrose oil, refined	12112905	3
Caelo	Evening primrose oil, refined	12112906	1
Caelo	Evening primrose oil, refined	12112908	6
Caelo	Evening primrose oil, refined	12112910	1
Caelo	Evening primrose oil, refined	12112911	4
Caelo	Evening primrose oil, refined	12112912	1
Caelo	Evening primrose oil, refined	12112914	2
Caelo	Evening primrose oil, refined	12112915	2
Caelo	Jojoba Oil, native	12114701	1
Caelo	Jojoba Oil, native	12114702	1
Caelo	Jojoba Oil, native	12114703	1
Caelo	Jojoba Oil, native	12114708	1
Caelo	Peanut oil, refined	1211503	1
Caelo	Codliver oil (type A)	12126102	1
Caelo	Olive oil, native	12141305	3
Caelo	Olive oil, native	12141306	12
Caelo	Olive oil, native	12141309	5
Caelo	Olive oil, native	12141310	1
Caelo	Corn oil, refined	12141511	1
Caelo	Olive oil, native	1214306	1
Caelo	Codliver oil (type A)	12148703	10
Caelo	Codliver oil (type A)	121487703	1
Caelo	Grape seed oil, refined	12149203	2
Caelo	Grape seed oil, refined	12149204	4
Caelo	Grape seed oil, refined	12149205	1
Caelo	Grape seed oil, refined	12149210	1
Caelo	Grape seed oil, refined	12149211	1
Caelo	Grape seed oil, refined	12149212	2
Caelo	Borage oil, refined, stabili…	12152108	1
Caelo	Almond oil, refined	12153501	5
Caelo	Almond oil, refined	12153502	7
Caelo	Almond oil, refined	12153504	1
Caelo	Almond oil, refined	12153505	8
Caelo	Almond oil, refined	12153506	4
Caelo	Borage oil, refined, stabili…	12161202	8
Caelo	Borage oil, refined, stabili…	12161203	1
Caelo	Borage oil, refined, stabili…	12161205	3
Caelo	Borage oil, refined, stabili…	12161207	4
Caelo	Borage oil, refined, stabili…	12161209	1
Caelo	Evening primrose oil, refined	1218404553	1
Caelo	Peanut oil, refined	12203803	15
Caelo	Peanut oil, refined	12203806	3
Caelo	Walnut oil, refined	12214902	1
Caelo	Walnut oil, refined	12214904	1
Caelo	Jojoba Oil, native	12217003	1
Caelo	Jojoba Oil, native	12217008	2
Caelo	Jojoba Oil, native	12217009	3
Caelo	Jojoba Oil, native	12217010	4
Caelo	Flaxseed oil, native	12217504	2
Caelo	Flaxseed oil, native	12217505	2
Caelo	Oleyl oleate (stabilised)	12220201	1
Caelo	Oleyl oleate (stabilised)	12220204	1
Caelo	Oleyl oleate (stabilised)	12220205	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Oleyl oleate (stabilised)	12220207	3
Caelo	Oleyl oleate (stabilised)	12220210	1
Caelo	Wheatgerm oil, refined	12220302	1
Caelo	Wheatgerm oil, refined	12220304	2
Caelo	Wheatgerm oil, refined	12220305	1
Caelo	Wheatgerm oil, refined	12220306	2
Caelo	Wheatgerm oil, refined	12220307	1
Caelo	Oleyl oleate (stabilised)	122220210	1
Caelo	Shea butter, refined	1224210	1
Caelo	Shea butter, refined	12242404	1
Caelo	Shea butter, refined	12242406	1
Caelo	Shea butter, refined	12242410	1
Caelo	Shea butter, refined	12242412	1
Caelo	Shea butter, refined	12242416	2
Caelo	Peanut oil, refined	1224302	1
Caelo	Avocado oil, refined	12248302	1
Caelo	Avocado oil, refined	12248303	2
Caelo	Avocado oil, refined	12248310	12
Caelo	Avocado oil, refined	12248311	2
Caelo	Avocado oil, refined	12248312	3
Caelo	Avocado oil, refined	12248315	2
Caelo	Peanut oil, refined	12274032	1
Caelo	Olive oil, native	12274104	7
Caelo	Olive oil, native	12274106	11
Caelo	Olive oil, native	12274108	1
Caelo	Flaxseed oil, native	12274205	2
Caelo	Peanut oil, refined	12274302	21
Caelo	Peanut oil, refined	12274305	3
Caelo	Evening primrose oil, refined	122966	3
Caelo	Borage oil, refined, stabili…	123118	1
Caelo	Peanut oil, refined	1232304	1
Caelo	Peanut oil, refined	12323204	16
Caelo	Peanut oil, refined	12323205	3
Caelo	Evening primrose oil, refined	123235106	1
Caelo	Evening primrose oil, refined	12325101	9
Caelo	Evening primrose oil, refined	12325103	4
Caelo	Evening primrose oil, refined	12325105	7
Caelo	Evening primrose oil, refined	12325106	13
Caelo	Evening primrose oil, refined	12325107	9
Caelo	Evening primrose oil, refined	12325109	6
Caelo	Evening primrose oil, refined	12325110	1
Caelo	Evening primrose oil, refined	12325111	10
Caelo	Evening primrose oil, refined	12325113	8
Caelo	Evening primrose oil, refined	12325114	5
Caelo	Evening primrose oil, refined	12325115	3
Caelo	Evening primrose oil, refined	12325116	5
Caelo	Evening primrose oil, refined	1232516	1
Caelo	Sesame oil, refined	1234	1
Caelo	Sesame oil, refined	123456	1
Caelo	Olive oil, native	123465	1
Caelo	Codliver oil (type A)	12346810	8
Caelo	Evening primrose oil, refined	1235101	1
Caelo	Evening primrose oil, refined	1235106	1
Caelo	Evening primrose oil, refined	1235113	1
Caelo	Borage oil, refined, stabili…	1235504	1
Caelo	Evening primrose oil, refined	12355115	1
Caelo	Borage oil, refined, stabili…	12355203	11
Caelo	Borage oil, refined, stabili…	12355205	4
Caelo	Almond oil, refined	12357101	12
Caelo	Almond oil, refined	12357102	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Almond oil, refined	12357103	7
Caelo	Almond oil, refined	12357110	1
Caelo	Almond oil, refined	12357111	12
Caelo	Almond oil, refined	12357112	2
Caelo	Olive oil, native	123773	1
Caelo	Sesame oil, refined	123826	1
Caelo	Olive oil, native	12388	1
Caelo	Olive oil, native	123test	2
Caelo	Avocado oil, refined	124656	1
Caelo	Avocado oil, refined	127889	1
Caelo	Evening primrose oil, refined	1281315	1
Caelo	Olive oil, native	12ini9	1
Caelo	Corn oil, refined	13010707	2
Caelo	Corn oil, refined	13010710	1
Caelo	Olive oil, native	13010904	23
Caelo	Olive oil, native	13010906	6
Caelo	Olive oil, native	130109062x	1
Caelo	Olive oil, native	13010911	19
Caelo	Olive oil, native	1301094	1
Caelo	Rapeseed oil, refined	13011008	1
Caelo	Sesame oil, refined	1301105	1
Caelo	Sesame oil, refined	13011104	4
Caelo	Sesame oil, refined	13011105	11
Caelo	Sesame oil, refined	13011107	7
Caelo	Sesame oil, refined	13011109	1
Caelo	Sesame oil, refined	130111107	1
Caelo	Jojoba Oil, native	13011202	5
Caelo	Jojoba Oil, native	13011203	2
Caelo	Jojoba Oil, native	13011204	4
Caelo	Codliver oil (type A)	13011301	1
Caelo	Wheatgerm oil, refined	13011501	6
Caelo	Wheatgerm oil, refined	13011502	1
Caelo	Wheatgerm oil, refined	13011503	2
Caelo	Wheatgerm oil, refined	13011505	6
Caelo	Wheatgerm oil, refined	13011507	3
Caelo	Wheatgerm oil, refined	13011508	2
Caelo	Apricot kernel oil, refined	13011804	1
Caelo	Apricot kernel oil, refined	13011805	1
Caelo	Almond oil, refined	130145	4
Caelo	Avocado oil, refined	130172	1
Caelo	Olive oil, native	13021410	1
Caelo	Avocado oil, refined	13031303	1
Caelo	Avocado oil, refined	1304039-1	1
Caelo	Olive oil, native	13051402	1
Caelo	Peanut oil, refined	13051403	1
Caelo	Grape seed oil, refined	13065302	7
Caelo	Grape seed oil, refined	13065304	2
Caelo	Grape seed oil, refined	13065309	4
Caelo	Codliver oil (type A)	13065503	5
Caelo	Codliver oil (type A)	13069201	1
Caelo	Olive oil, native	13081204	1
Caelo	Almond oil, refined	13091308	1
Caelo	Oleyl oleate (stabilised)	13096401	1
Caelo	Oleyl oleate (stabilised)	13096801	1
Caelo	Almond oil, refined	13101203	1
Caelo	Codliver oil (type A)	13106201	9
Caelo	Codliver oil (type A)	13106201-3392131070	1
Caelo	Evening primrose oil, refined	131211807	1
Caelo	Evening primrose oil, refined	13121804	1
Caelo	Evening primrose oil, refined	13121806	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	13121807	6
Caelo	Evening primrose oil, refined	13121808	16
Caelo	Evening primrose oil, refined	13121809	11
Caelo	Evening primrose oil, refined	13121812	7
Caelo	Evening primrose oil, refined	13121813	5
Caelo	Evening primrose oil, refined	13121814	8
Caelo	Evening primrose oil, refined	13121816	15
Caelo	Evening primrose oil, refined	13121818	4
Caelo	Evening primrose oil, refined	1312812	1
Caelo	Evening primrose oil, refined	1312816	1
Caelo	Jojoba Oil, native	13129001	3
Caelo	Jojoba Oil, native	13129004	5
Caelo	Jojoba Oil, native	13129005	3
Caelo	Jojoba Oil, native	13129006	5
Caelo	Jojoba Oil, native	13129008	1
Caelo	Avocado oil, refined	13129103	10
Caelo	Avocado oil, refined	13129104	2
Caelo	Avocado oil, refined	13129106	3
Caelo	Avocado oil, refined	13129108	7
Caelo	Avocado oil, refined	13129111	1
Caelo	Peanut oil, refined	13129202	1
Caelo	Peanut oil, refined	13129203	34
Caelo	Almond oil, refined	1312Q-01950	1
Caelo	Borage oil, refined, stabili...	13136504	9
Caelo	Shea butter, refined	13143807	1
Caelo	Shea butter, refined	13143810	1
Caelo	Shea butter, refined	13143813	2
Caelo	Shea butter, refined	13143814	2
Caelo	Oleyl oleate (stabilised)	13144401	1
Caelo	Olive oil, native	13147001	9
Caelo	Olive oil, native	13147004	19
Caelo	Borage oil, refined, stabili...	1316504	1
Caelo	Oleyl oleate (stabilised)	13167107	1
Caelo	Oleyl oleate (stabilised)	13167109	4
Caelo	Borage oil, refined, stabili...	13170601	4
Caelo	Borage oil, refined, stabili...	13170603	1
Caelo	Borage oil, refined, stabili...	13170604	1
Caelo	Borage oil, refined, stabili...	13170605	3
Caelo	Borage oil, refined, stabili...	13170606	15
Caelo	Borage oil, refined, stabili...	13170607	1
Caelo	Borage oil, refined, stabili...	13170610	7
Caelo	Borage oil, refined, stabili...	13170613	4
Caelo	Sesame oil, refined	13172906	5
Caelo	Sesame oil, refined	13172908	2
Caelo	Peanut oil, refined	13173003	1
Caelo	Grape seed oil, refined	13174601	2
Caelo	Almond oil, refined	13178002	12
Caelo	Almond oil, refined	13178003	16
Caelo	Almond oil, refined	13178004	15
Caelo	Almond oil, refined	13178009	2
Caelo	Almond oil, refined	13178011	12
Caelo	Flaxseed oil, native	13178203	4
Caelo	Flaxseed oil, native	13178209	3
Caelo	Flaxseed oil, native	13178210	1
Caelo	Walnut oil, refined	13202401	3
Caelo	Olive oil, native	13224701	7
Caelo	Olive oil, native	13224702	4
Caelo	Olive oil, native	13224703	17
Caelo	Olive oil, native	13224704	15
Caelo	Sunflower oil, refined	13225102	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Almond oil, refined	132363403	1
Caelo	Almond oil, refined	13236401	15
Caelo	Almond oil, refined	13236402	13
Caelo	Almond oil, refined	13236403	7
Caelo	Almond oil, refined	13236404	4
Caelo	Almond oil, refined	13236406	8
Caelo	Almond oil, refined	13236411	7
Caelo	Olive oil, native	1324704	1
Caelo	Apricot kernel oil, refined	13253203	2
Caelo	Wheatgerm oil, refined	13261601	4
Caelo	Wheatgerm oil, refined	13261603	7
Caelo	Wheatgerm oil, refined	13261604	3
Caelo	Wheatgerm oil, refined	13261605	1
Caelo	Almond oil, refined	1326403	1
Caelo	Olive oil, native	132656	1
Caelo	Codliver oil (type A)	13277706	7
Caelo	Codliver oil (type A)	13277707	1
Caelo	Jojoba Oil, native	13287701	2
Caelo	Oleyl oleate (stabilised)	13291602	1
Caelo	Oleyl oleate (stabilised)	13291605	1
Caelo	Decyl oleate	13291606	2
Caelo	Oleyl oleate (stabilised)	13291607	1
Caelo	Peanut oil, refined	13306101	2
Caelo	Peanut oil, refined	13306102	8
Caelo	Olive oil, native	13306103	26
Caelo	Peanut oil, refined	13306106	15
Caelo	Avocado oil, refined	1331406	1
Caelo	Almond oil, refined	13326411	1
Caelo	Walnut oil, refined	13338302	1
Caelo	Almond oil, refined	133500006	1
Caelo	Almond oil, refined	13350001	17
Caelo	Almond oil, refined	13350002	17
Caelo	Almond oil, refined	13350003	13
Caelo	Almond oil, refined	13350006	4
Caelo	Almond oil, refined	13350007	4
Caelo	Almond oil, refined	1335006	1
Caelo	Olive oil, native	13350101	4
Caelo	Olive oil, native	13350102	16
Caelo	Olive oil, native	13350103	13
Caelo	Olive oil, native	13350104	7
Caelo	Olive oil, native	13350105	3
Caelo	Apricot kernel oil, refined	13357604	1
Caelo	Peanut oil, refined	13358801	10
Caelo	Peanut oil, refined	13358803	14
Caelo	Peanut oil, refined	13358803klare	1
Caelo	Peanut oil, refined	13358804	23
Caelo	Flaxseed oil, native	13361202	4
Caelo	Flaxseed oil, native	13361203	2
Caelo	Avocado oil, refined	13361406	9
Caelo	Avocado oil, refined	13361407	3
Caelo	Avocado oil, refined	13361411	4
Caelo	Avocado oil, refined	13361414	7
Caelo	Avocado oil, refined	13361441	1
Caelo	Borage oil, refined, stabili…	13372101	2
Caelo	Borage oil, refined, stabili…	13372104	6
Caelo	Borage oil, refined, stabili…	13372106	2
Caelo	Borage oil, refined, stabili…	13372107	8
Caelo	Borage oil, refined, stabili…	13372110	1
Caelo	Oleyl oleate (stabilised)	13378403	4
Caelo	Codliver oil (type A)	13396403	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Codliver oil (type A)	13396407	4
Caelo	Sesame oil, refined	13397402	3
Caelo	Almond oil, refined	1350003	1
Caelo	Peanut oil, refined	1358804	1
Caelo	Almond oil, refined	13H08-N11	1
Caelo	Peanut oil, refined	13J25-B06-291838	1
Caelo	Evening primrose oil, refined	14002501	1
Caelo	Evening primrose oil, refined	14002502	2
Caelo	Evening primrose oil, refined	14002503	6
Caelo	Oleyl oleate (stabilised)	14005001	4
Caelo	Decyl oleate	14005002	1
Caelo	Evening primrose oil, refined	14010901	1
Caelo	Evening primrose oil, refined	14010903	2
Caelo	Evening primrose oil, refined	14010904	8
Caelo	Evening primrose oil, refined	14010905	1
Caelo	Evening primrose oil, refined	14010907	1
Caelo	Evening primrose oil, refined	14010908	22
Caelo	Evening primrose oil, refined	14010910	13
Caelo	Evening primrose oil, refined	14010912	2
Caelo	Evening primrose oil, refined	14010913	12
Caelo	Evening primrose oil, refined	14010914	2
Caelo	Evening primrose oil, refined	14010915	14
Caelo	Evening primrose oil, refined	14010917	1
Caelo	Evening primrose oil, refined	14010918	6
Caelo	Evening primrose oil, refined	14010920	1
Caelo	Almond oil, refined	140113PML01	1
Caelo	Evening primrose oil, refined	1401904	1
Caelo	Evening primrose oil, refined	1401908	1
Caelo	Olive oil, native	14024406	5
Caelo	Olive oil, native	14024407	11
Caelo	Olive oil, native	14024408	16
Caelo	Olive oil, native	14024409	8
Caelo	Wheatgerm oil, refined	14024501	7
Caelo	Wheatgerm oil, refined	14024502	1
Caelo	Evening primrose oil, refined	14031701	1
Caelo	Shea butter, refined	14033303	1
Caelo	Shea butter, refined	14033304	2
Caelo	Shea butter, refined	14033306	1
Caelo	Shea butter, refined	14033310	1
Caelo	Shea butter, refined	14033312	2
Caelo	Shea butter, refined	14033313	3
Caelo	Shea butter, refined	14033314	1
Caelo	Peanut oil, refined	14033601	18
Caelo	Almond oil, refined	1404206	1
Caelo	Almond oil, refined	14042702	2
Caelo	Almond oil, refined	14042703	8
Caelo	Almond oil, refined	14042704	3
Caelo	Almond oil, refined	14042705	6
Caelo	Almond oil, refined	14042706	8
Caelo	Almond oil, refined	14042707	5
Caelo	Almond oil, refined	14042708	8
Caelo	Almond oil, refined	14042710	1
Caelo	Almond oil, refined	14042714	1
Caelo	Almond oil, refined	14042717	3
Caelo	Avocado oil, refined	1405007-01	1
Caelo	Jojoba Oil, native	14052201	5
Caelo	Jojoba Oil, native	14052206	1
Caelo	Codliver oil (type A)	14061312	1
Caelo	Olive oil, native	1406914	1
Caelo	Evening primrose oil, refined	1407002-01	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	1407002-02	1
Caelo	Olive oil, native	14070802	1
Caelo	Olive oil, native	14071504	1
Caelo	Olive oil, native	14071704	1
Caelo	Codliver oil (type A)	14075015	3
Caelo	Flaxseed oil, native	14087903	1
Caelo	Flaxseed oil, native	14087908	4
Caelo	Flaxseed oil, native	14087909	1
Caelo	Olive oil, native	1410001	1
Caelo	Sesame oil, refined	14101302	1
Caelo	Olive oil, native	14101709	1
Caelo	Olive oil, native	14111306	1
Caelo	Peanut oil, refined	14111401	1
Caelo	Peanut oil, refined	14115403	5
Caelo	Peanut oil, refined	14115404	10
Caelo	Peanut oil, refined	14115405	16
Caelo	Peanut oil, refined	14115406	14
Caelo	Olive oil, native	141182303	1
Caelo	Olive oil, native	14118603	24
Caelo	Olive oil, native	14118604	15
Caelo	Olive oil, native	14118606	2
Caelo	Almond oil, refined	141215804	1
Caelo	Wheatgerm oil, refined	14121701	1
Caelo	Jojoba Oil, native	14121702	1
Caelo	Almond oil, refined	14121703	1
Caelo	Grape seed oil, refined	14127902	4
Caelo	Grape seed oil, refined	14127903	2
Caelo	Grape seed oil, refined	14127906	1
Caelo	Oleyl oleate (stabilised)	14129007	13
Caelo	Oleyl oleate (stabilised)	14129007(2mal)	1
Caelo	Almond oil, refined	14139034	1
Caelo	Almond oil, refined	14139301	1
Caelo	Almond oil, refined	14139304	2
Caelo	Almond oil, refined	14139305	2
Caelo	Almond oil, refined	14139306	2
Caelo	Almond oil, refined	14139309	3
Caelo	Almond oil, refined	14139310	14
Caelo	Almond oil, refined	14139311	12
Caelo	Evening primrose oil, refined	1414201710	1
Caelo	Sunflower oil, refined	14147101	3
Caelo	Borage oil, refined, stabili...	14161901	4
Caelo	Borage oil, refined, stabili...	14161904	4
Caelo	Borage oil, refined, stabili...	14161906	2
Caelo	Borage oil, refined, stabili...	1416906	1
Caelo	Peanut oil, refined	1416A-01954	1
Caelo	Sesame oil, refined	14170001	1
Caelo	Sesame oil, refined	14170004	9
Caelo	Sesame oil, refined	14170005	3
Caelo	Avocado oil, refined	14170102	1
Caelo	Avocado oil, refined	14170104	11
Caelo	Avocado oil, refined	14170105	3
Caelo	Laurel oil	14176301	1
Caelo	Laurel oil	14176303	1
Caelo	Olive oil, native	14182302	17
Caelo	Olive oil, native	14182303	19
Caelo	Olive oil, native	14182304	3
Caelo	Olive oil, native	14182305	2
Caelo	Borage oil, refined, stabili...	1418E-02881	1
Caelo	Soy oil, refined	14194107	1
Caelo	Borage oil, refined, stabili...	14203001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Borage oil, refined, stabili…	14203004	10
Caelo	Borage oil, refined, stabili…	14203005	14
Caelo	Borage oil, refined, stabili…	14203009	1
Caelo	Borage oil, refined, stabili…	14203011	6
Caelo	Borage oil, refined, stabili…	14203012	1
Caelo	Grape seed oil, refined	14214606	3
Caelo	Grape seed oil, refined	14214607	2
Caelo	Almond oil, refined	1421508	1
Caelo	Almond oil, refined	14215804	4
Caelo	Almond oil, refined	14215805	10
Caelo	Almond oil, refined	14215806	9
Caelo	Almond oil, refined	14215807	3
Caelo	Almond oil, refined	14215808	8
Caelo	Almond oil, refined	14215809	13
Caelo	Almond oil, refined	14215814	4
Caelo	Almond oil, refined	14215815	4
Caelo	Almond oil, refined	14215816	1
Caelo	Almond oil, refined	14215817	8
Caelo	Peanut oil, refined	14246901	15
Caelo	Peanut oil, refined	14246902	5
Caelo	Peanut oil, refined	14246903	19
Caelo	Oleyl oleate (stabilised)	14254603	8
Caelo	Evening primrose oil, refined	14256810	1
Caelo	Evening primrose oil, refined	14258601	11
Caelo	Evening primrose oil, refined	14258603	12
Caelo	Evening primrose oil, refined	14258604	4
Caelo	Evening primrose oil, refined	14258606	12
Caelo	Evening primrose oil, refined	14258607	5
Caelo	Evening primrose oil, refined	14258608	12
Caelo	Evening primrose oil, refined	14258610	20
Caelo	Evening primrose oil, refined	14258611	4
Caelo	Evening primrose oil, refined	14258612	3
Caelo	Evening primrose oil, refined	14258615	2
Caelo	Evening primrose oil, refined	14258616	17
Caelo	Evening primrose oil, refined	14258617	15
Caelo	Shea butter, refined	14261102	1
Caelo	Shea butter, refined	14261107	2
Caelo	Shea butter, refined	14261108	4
Caelo	Shea butter, refined	14261109	1
Caelo	Shea butter, refined	14261110	1
Caelo	Shea butter, refined	14261111	1
Caelo	Shea butter, refined	14261113	7
Caelo	Wheatgerm oil, refined	1427251	1
Caelo	Wheatgerm oil, refined	14272511	2
Caelo	Wheatgerm oil, refined	14272513	2
Caelo	Wheatgerm oil, refined	14272514	4
Caelo	Jojoba Oil, native	14284202	4
Caelo	Jojoba Oil, native	14284203	2
Caelo	Jojoba Oil, native	14284204	7
Caelo	Jojoba Oil, native	14284207	7
Caelo	Jojoba Oil, native	14284208	7
Caelo	Evening primrose oil, refined	1428616	1
Caelo	Codliver oil (type A)	14305002	1
Caelo	Codliver oil (type A)	14305003	1
Caelo	Codliver oil (type A)	14305701	2
Caelo	Sunflower oil, refined	14306701	2
Caelo	Flaxseed oil, native	14306806	2
Caelo	Flaxseed oil, native	14306808	1
Caelo	Flaxseed oil, native	14306811	3
Caelo	Olive oil, native	14306902	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Olive oil, native	14306903	4
Caelo	Olive oil, native	14306904	9
Caelo	Olive oil, native	14306905	15
Caelo	Olive oil, native	14306913	2
Caelo	Olive oil, native	14306914	1
Caelo	Olive oil, native	14306915	8
Caelo	Olive oil, native	14306916	10
Caelo	Sesame oil, refined	14351804	6
Caelo	Peanut oil, refined	14355903	6
Caelo	Peanut oil, refined	14355904	14
Caelo	Peanut oil, refined	14355905	14
Caelo	Wheatgerm oil, refined	14356001	6
Caelo	Wheatgerm oil, refined	14356003	2
Caelo	Wheatgerm oil, refined	14356006	4
Caelo	Avocado oil, refined	14363702	14
Caelo	Avocado oil, refined	14363703	12
Caelo	Avocado oil, refined	14363704	1
Caelo	Avocado oil, refined	14363705	4
Caelo	Avocado oil, refined	14363706	2
Caelo	Wheatgerm oil, refined	14366001	1
Caelo	Avocado oil, refined	1436705	1
Caelo	Avocado oil, refined	1436706	1
Caelo	Almond oil, refined	1439310	1
Caelo	Evening primrose oil, refined	145691	14
Caelo	Borage oil, refined, stabili…	1461906	1
Caelo	Evening primrose oil, refined	14717806	1
Caelo	Oleyl oleate (stabilised)	14B14-B03-292195	1
Caelo	Almond oil, refined	14D24-b07-302332	1
Caelo	Evening primrose oil, refined	150081403	1
Caelo	Jojoba Oil, native	15011412	1
Caelo	Peanut oil, refined	15012016	1
Caelo	Peanut oil, refined	15015103	16
Caelo	Peanut oil, refined	15015104	15
Caelo	Peanut oil, refined	15015106	4
Caelo	Evening primrose oil, refined	150303101	1
Caelo	Evening primrose oil, refined	1503031-01	1
Caelo	Codliver oil (type A)	15047201	6
Caelo	Codliver oil (type A)	15047210	1
Caelo	Decyl oleate	15047702	2
Caelo	Corn oil, refined	15050506	1
Caelo	Codliver oil (type A)	15056802	1
Caelo	Evening primrose oil, refined	1506001-01	1
Caelo	Evening primrose oil, refined	150601-01	1
Caelo	Wheatgerm oil, refined	1506201	1
Caelo	Borage oil, refined, stabili…	15063401	2
Caelo	Borage oil, refined, stabili…	15063402	12
Caelo	Borage oil, refined, stabili…	15063406	3
Caelo	Borage oil, refined, stabili…	15063407	16
Caelo	Borage oil, refined, stabili…	15063408	3
Caelo	Borage oil, refined, stabili…	15063409	3
Caelo	Borage oil, refined, stabili…	15063411	6
Caelo	Borage oil, refined, stabili…	15063412	2
Caelo	Borage oil, refined, stabili…	15063413	2
Caelo	Almond oil, refined	15071406	1
Caelo	Almond oil, refined	15078401	2
Caelo	Almond oil, refined	15078402	5
Caelo	Almond oil, refined	15078403	9
Caelo	Almond oil, refined	15078404	12
Caelo	Almond oil, refined	15078405	14
Caelo	Almond oil, refined	15078406	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Almond oil, refined	15078407	3
Caelo	Almond oil, refined	15080602	1
Caelo	Evening primrose oil, refined	15081401	4
Caelo	Evening primrose oil, refined	15081402	3
Caelo	Evening primrose oil, refined	15081403	8
Caelo	Evening primrose oil, refined	15081404	13
Caelo	Evening primrose oil, refined	15081405	20
Caelo	Evening primrose oil, refined	15081407	20
Caelo	Decyl oleate	15082205	1
Caelo	Decyl oleate	15082206	3
Caelo	Olive oil, native	1509212000	1
Caelo	Wheatgerm oil, refined	15111602	4
Caelo	Wheatgerm oil, refined	15111603	4
Caelo	Wheatgerm oil, refined	15111605	2
Caelo	Olive oil, native	15112703	3
Caelo	Olive oil, native	15112704	3
Caelo	Olive oil, native	15112705	8
Caelo	Olive oil, native	15112706	16
Caelo	Olive oil, native	15112707	5
Caelo	Olive oil, native	1511403	1
Caelo	Flaxseed oil, native	15116702	6
Caelo	Jojoba Oil, native	15116903	12
Caelo	Jojoba Oil, native	15116904	5
Caelo	Evening primrose oil, refined	1512000501	1
Caelo	Evening primrose oil, refined	1512005-01	1
Caelo	Evening primrose oil, refined	151200502	1
Caelo	Evening primrose oil, refined	1512005-02	2
Caelo	Evening primrose oil, refined	15121405	1
Caelo	Olive oil, native	15121802	1
Caelo	Almond oil, refined	15127302	2
Caelo	Almond oil, refined	15127303	2
Caelo	Almond oil, refined	15127304	8
Caelo	Almond oil, refined	15127305	6
Caelo	Almond oil, refined	15127306	12
Caelo	Almond oil, refined	15127307	10
Caelo	Almond oil, refined	15127308	2
Caelo	Evening primrose oil, refined	15141102	1
Caelo	Grape seed oil, refined	15144502	1
Caelo	Grape seed oil, refined	15144504	2
Caelo	Grape seed oil, refined	15144505	3
Caelo	Grape seed oil, refined	15144506	1
Caelo	Grape seed oil, refined	15144509	2
Caelo	Grape seed oil, refined	15144510	1
Caelo	Shea butter, refined	15144901	2
Caelo	Shea butter, refined	15144902	1
Caelo	Shea butter, refined	15144903	1
Caelo	Shea butter, refined	15144907	8
Caelo	Avocado oil, refined	15155203	2
Caelo	Avocado oil, refined	15155206	9
Caelo	Avocado oil, refined	15155207	5
Caelo	Jojoba Oil, native	1515M-01986	1
Caelo	Evening primrose oil, refined	15171101	6
Caelo	Evening primrose oil, refined	15171102	27
Caelo	Evening primrose oil, refined	15171103	9
Caelo	Evening primrose oil, refined	15171104	21
Caelo	Evening primrose oil, refined	15171105	13
Caelo	Evening primrose oil, refined	15171106	1
Caelo	Evening primrose oil, refined	15171108	1
Caelo	Evening primrose oil, refined	15171109	17
Caelo	Evening primrose oil, refined	15171110	42

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	15171111	16
Caelo	Evening primrose oil, refined	1517113	1
Caelo	Flaxseed oil, native	15175602	1
Caelo	Flaxseed oil, native	15175604	2
Caelo	Flaxseed oil, native	15175608	5
Caelo	Almond oil, refined	15187404	1
Caelo	Decyl oleate	15191501	1
Caelo	Decyl oleate	15191502	5
Caelo	Almond oil, refined	15197401	12
Caelo	Almond oil, refined	15197402	13
Caelo	Almond oil, refined	15197403	16
Caelo	Almond oil, refined	15197404	7
Caelo	Almond oil, refined	15197405	5
Caelo	Almond oil, refined	15197406	5
Caelo	Almond oil, refined	15197407	10
Caelo	Almond oil, refined	15197408	12
Caelo	Almond oil, refined	15197409	5
Caelo	Almond oil, refined	15197412	6
Caelo	Codliver oil (type A)	15201201	3
Caelo	Codliver oil (type A)	15201203	3
Caelo	Peanut oil, refined	15208501	3
Caelo	Peanut oil, refined	15208505	16
Caelo	Peanut oil, refined	15208506	20
Caelo	Olive oil, native	1521309	1
Caelo	Rapeseed oil, refined	15214403	1
Caelo	Rapeseed oil, refined	15214407	1
Caelo	Olive oil, native	15216305	1
Caelo	Olive oil, native	15216307	13
Caelo	Olive oil, native	15216308	13
Caelo	Olive oil, native	15216309	11
Caelo	Olive oil, native	15216310	4
Caelo	Soy oil, refined	15239303	1
Caelo	Soy oil, refined	15239310	3
Caelo	Sesame oil, refined	15239405	6
Caelo	Decyl oleate	15248405	7
Caelo	Decyl oleate	15248408	2
Caelo	Walnut oil, refined	15253203	1
Caelo	Avocado oil, refined	15268203	17
Caelo	Avocado oil, refined	15268205	7
Caelo	Avocado oil, refined	15268213	3
Caelo	Almond oil, refined	1527304	1
Caelo	Almond oil, refined	1527305	1
Caelo	Peanut oil, refined	15273402	18
Caelo	Peanut oil, refined	15273403	19
Caelo	Grape seed oil, refined	15294604	1
Caelo	Grape seed oil, refined	15294607	2
Caelo	Grape seed oil, refined	15294608	1
Caelo	Rapeseed oil, refined	15296106	3
Caelo	Corn oil, refined	15296407	5
Caelo	Oleyl oleate (stabilised)	15298004	1
Caelo	Shea butter, refined	15303001	1
Caelo	Shea butter, refined	15303002	4
Caelo	Shea butter, refined	15303003	2
Caelo	Shea butter, refined	15303004	1
Caelo	Shea butter, refined	15303005	2
Caelo	Shea butter, refined	15303007	2
Caelo	Shea butter, refined	15303009	2
Caelo	Borage oil, refined, stabili...	153050009	1
Caelo	Borage oil, refined, stabili...	15305001	14
Caelo	Borage oil, refined, stabili...	15305002	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Borage oil, refined, stabili…	15305003	5
Caelo	Borage oil, refined, stabili…	15305005	3
Caelo	Borage oil, refined, stabili…	15305006	4
Caelo	Borage oil, refined, stabili…	15305009	8
Caelo	Borage oil, refined, stabili…	15305011	1
Caelo	Olive oil, native	15311401	5
Caelo	Olive oil, native	15311402	8
Caelo	Olive oil, native	15311403	23
Caelo	Olive oil, native	15311404	13
Caelo	Olive oil, native	15311408	6
Caelo	Peanut oil, refined	1531502	1
Caelo	Oleyl oleate (stabilised)	153217	1
Caelo	Oleyl oleate (stabilised)	15321701	13
Caelo	Oleyl oleate (stabilised)	15321702	5
Caelo	Oleyl oleate (stabilised)	15321706	8
Caelo	Oleyl oleate (stabilised)	15322703	2
Caelo	Codliver oil (type A)	15325201	2
Caelo	Codliver oil (type A)	15325202	1
Caelo	Peanut oil, refined	15331501	21
Caelo	Peanut oil, refined	15331502	29
Caelo	Peanut oil, refined	15331503	21
Caelo	Peanut oil, refined	15331506	4
Caelo	Almond oil, refined	15331603	1
Caelo	Almond oil, refined	15331611	1
Caelo	Borage oil, refined, stabili…	1534-08	1
Caelo	Olive oil, native	15363302	1
Caelo	Sesame oil, refined	15374001	18
Caelo	Sesame oil, refined	15374006	6
Caelo	Wheatgerm oil, refined	15374101	8
Caelo	Wheatgerm oil, refined	15374104	2
Caelo	Wheatgerm oil, refined	15374105	1
Caelo	Decyl oleate	15393704	2
Caelo	Olive oil, native	15399702	21
Caelo	Olive oil, native	15399703	25
Caelo	Olive oil, native	15399704	23
Caelo	Olive oil, native	15399706	1
Caelo	Wheatgerm oil, refined	15405201	1
Caelo	Wheatgerm oil, refined	15406201	2
Caelo	Wheatgerm oil, refined	15406205	2
Caelo	Wheatgerm oil, refined	15406206	1
Caelo	Almond oil, refined	15409105	1
Caelo	Almond oil, refined	15409701	10
Caelo	Almond oil, refined	15409702	7
Caelo	Almond oil, refined	15409703	9
Caelo	Almond oil, refined	15409704	19
Caelo	Almond oil, refined	15409705	16
Caelo	Almond oil, refined	15409706	2
Caelo	Almond oil, refined	15409707	6
Caelo	Almond oil, refined	15409709	1
Caelo	Almond oil, refined	15409710	20
Caelo	Almond oil, refined	15409712	15
Caelo	Almond oil, refined	15409713	12
Caelo	Almond oil, refined	15409714	6
Caelo	Almond oil, refined	15409716	3
Caelo	Jojoba Oil, native	15409902	14
Caelo	Jojoba Oil, native	15409903	20
Caelo	Jojoba Oil, native	15409904	4
Caelo	Oleyl oleate (stabilised)	15410204	10
Caelo	Oleyl oleate (stabilised)	15410207	10
Caelo	Flaxseed oil, native	15415904	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Flaxseed oil, native	15415906	10
Caelo	Flaxseed oil, native	15415907	1
Caelo	Flaxseed oil, native	15415911	1
Caelo	Evening primrose oil, refined	15417083	1
Caelo	Evening primrose oil, refined	15417801	65
Caelo	Evening primrose oil, refined	15417802	60
Caelo	Evening primrose oil, refined	15417803	24
Caelo	Evening primrose oil, refined	15417805	41
Caelo	Evening primrose oil, refined	15417806	22
Caelo	Evening primrose oil, refined	15417807	3
Caelo	Evening primrose oil, refined	15417808	27
Caelo	Evening primrose oil, refined	15417809	10
Caelo	Evening primrose oil, refined	154178806	1
Caelo	Evening primrose oil, refined	1541801	1
Caelo	Sesame oil, refined	15422706	7
Caelo	Sesame oil, refined	15422707	2
Caelo	Sunflower oil, refined	15422801	1
Caelo	Sunflower oil, refined	15422804	1
Caelo	Sunflower oil, refined	15422805	1
Caelo	Avocado oil, refined	15426303	2
Caelo	Avocado oil, refined	15426304	11
Caelo	Avocado oil, refined	15426305	12
Caelo	Avocado oil, refined	15426306	5
Caelo	Evening primrose oil, refined	1547801	1
Caelo	Evening primrose oil, refined	1547802	1
Caelo	Almond oil, refined	15806001	1
Caelo	Evening primrose oil, refined	1601059-01	1
Caelo	Peanut oil, refined	16011403	1
Caelo	Olive oil, native	16011404	1
Caelo	Almond oil, refined	1601311950	1
Caelo	Shea butter, refined	16017202	1
Caelo	Shea butter, refined	16017203	3
Caelo	Shea butter, refined	16017204	2
Caelo	Shea butter, refined	16017205	3
Caelo	Shea butter, refined	16017208	4
Caelo	Shea butter, refined	16017213	1
Caelo	Shea butter, refined	16017214	2
Caelo	Codliver oil (type A)	16018202	4
Caelo	Codliver oil (type A)	16018301	1
Caelo	Evening primrose oil, refined	160213003	1
Caelo	Almond oil, refined	16021510	1
Caelo	Almond oil, refined	1602211950	1
Caelo	Evening primrose oil, refined	1603048-01	3
Caelo	Olive oil, native	160353010	1
Caelo	Olive oil, native	16035308	7
Caelo	Olive oil, native	16035309	5
Caelo	Olive oil, native	16035310	21
Caelo	Olive oil, native	16035311	14
Caelo	Soy lecithin, liquid	1604034-01	1
Caelo	Evening primrose oil, refined	160502701	1
Caelo	Evening primrose oil, refined	1605027-01	2
Caelo	Avocado oil, refined	1605034-01	2
Caelo	Avocado oil, refined	1605034-03	1
Caelo	Borage oil, refined, stabili...	16052301	16
Caelo	Borage oil, refined, stabili...	16052302	4
Caelo	Borage oil, refined, stabili...	16052307	13
Caelo	Jojoba Oil, native	16070601	4
Caelo	Jojoba Oil, native	16070602	20
Caelo	Jojoba Oil, native	16070604	2
Caelo	Jojoba Oil, native	16070606	17

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Jojoba Oil, native	16070607	3
Caelo	Jojoba Oil, native	16070608	8
Caelo	Jojoba Oil, native	16070609	11
Caelo	Jojoba Oil, native	16070610	10
Caelo	Almond oil, refined	16071001	8
Caelo	Almond oil, refined	16071002	20
Caelo	Almond oil, refined	16071003	23
Caelo	Almond oil, refined	16071004	10
Caelo	Almond oil, refined	16071005	8
Caelo	Almond oil, refined	16071006	12
Caelo	Almond oil, refined	16071007	11
Caelo	Almond oil, refined	16071008	2
Caelo	Almond oil, refined	16071009	1
Caelo	Peanut oil, refined	160711	1
Caelo	Peanut oil, refined	16071101	20
Caelo	Peanut oil, refined	16071102	28
Caelo	Peanut oil, refined	16071103	23
Caelo	Peanut oil, refined	16071103/1160117	1
Caelo	Peanut oil, refined	16071104	16
Caelo	Peanut oil, refined	16071105	20
Caelo	Peanut oil, refined	16071106	4
Caelo	Peanut oil, refined	160711104	1
Caelo	Peanut oil, refined	16071804	1
Caelo	Codliver oil (type A)	16074301	1
Caelo	Codliver oil (type A)	16074305	2
Caelo	Evening primrose oil, refined	1608008-01	2
Caelo	Soy oil, refined	16081309	3
Caelo	Olive oil, native	16081803	1
Caelo	Avocado oil, refined	16081811	1
Caelo	Grape seed oil, refined	16092401	3
Caelo	Grape seed oil, refined	16092402	6
Caelo	Grape seed oil, refined	16092409	3
Caelo	Grape seed oil, refined	16092410	2
Caelo	Avocado oil, refined	16104702	20
Caelo	Avocado oil, refined	16104703	4
Caelo	Avocado oil, refined	16104704	2
Caelo	Oleyl oleate (stabilised)	16104904	2
Caelo	Oleyl oleate (stabilised)	16104907	11
Caelo	Decyl oleate	161071	1
Caelo	Decyl oleate	16107101	16
Caelo	Olive oil, native	16121306	1
Caelo	Olive oil, native	1612803	1
Caelo	Wheatgerm oil, refined	16137401	1
Caelo	Wheatgerm oil, refined	16137403	5
Caelo	Wheatgerm oil, refined	16137404	7
Caelo	Wheatgerm oil, refined	16137405	3
Caelo	Almond oil, refined	1614401	1
Caelo	Olive oil, native	16144218	1
Caelo	Almond oil, refined	16144403	5
Caelo	Almond oil, refined	16144404	1
Caelo	Almond oil, refined	16144405	1
Caelo	Olive oil, native	16144605	5
Caelo	Oleyl oleate (stabilised)	1614907	2
Caelo	Almond oil, refined	16149802	1
Caelo	Sesame oil, refined	1615E-02016	1
Caelo	Safflower oil, refined type I	16184901	1
Caelo	Rapeseed oil, refined	16185004	3
Caelo	Rapeseed oil, refined	16185006	1
Caelo	Avocado oil, refined	16185907	12
Caelo	Avocado oil, refined	16185908	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Avocado oil, refined	1618908	1
Caelo	Evening primrose oil, refined	1620	1
Caelo	Olive oil, native	16212801	19
Caelo	Olive oil, native	16212802	4
Caelo	Olive oil, native	16212803	4
Caelo	Olive oil, native	16212805	1
Caelo	Olive oil, native	16212806	38
Caelo	Olive oil, native	1621806	3
Caelo	Decyl oleate	16223409	1
Caelo	Decyl oleate	16224302	6
Caelo	Decyl oleate	16224309	4
Caelo	Flaxseed oil, native	16231106	1
Caelo	Peanut oil, refined	1624502	1
Caelo	Evening primrose oil, refined	16245602	1
Caelo	Peanut oil, refined	16249502	78
Caelo	Peanut oil, refined	16259502	1
Caelo	Corn oil, refined	16260309	2
Caelo	Evening primrose oil, refined	16261313	1
Caelo	Borage oil, refined, stabili…	16266002	7
Caelo	Borage oil, refined, stabili…	16266007	23
Caelo	Borage oil, refined, stabili…	16266008	2
Caelo	Borage oil, refined, stabili…	16266009	2
Caelo	Borage oil, refined, stabili…	16266011	12
Caelo	Borage oil, refined, stabili…	16266012	2
Caelo	Borage oil, refined, stabili…	1626608	1
Caelo	Laurel oil	16275702	1
Caelo	Sunflower oil, refined	16275801	1
Caelo	Sunflower oil, refined	16275804	6
Caelo	Olive oil, native	16278806	1
Caelo	Evening primrose oil, refined	1628109	1
Caelo	Evening primrose oil, refined	16281209	1
Caelo	Evening primrose oil, refined	16281301	22
Caelo	Evening primrose oil, refined	16281302	29
Caelo	Evening primrose oil, refined	16281303	5
Caelo	Evening primrose oil, refined	16281305	11
Caelo	Evening primrose oil, refined	16281306	16
Caelo	Evening primrose oil, refined	16281307	13
Caelo	Evening primrose oil, refined	162813078	1
Caelo	Evening primrose oil, refined	16281308	44
Caelo	Evening primrose oil, refined	16281309	59
Caelo	Evening primrose oil, refined	16281310	13
Caelo	Evening primrose oil, refined	16281311	1
Caelo	Evening primrose oil, refined	16281313	22
Caelo	Evening primrose oil, refined	16281314	13
Caelo	Evening primrose oil, refined	16281315	11
Caelo	Evening primrose oil, refined	16281317	6
Caelo	Evening primrose oil, refined	16281318	14
Caelo	Evening primrose oil, refined	16281319	7
Caelo	Evening primrose oil, refined	16282301	1
Caelo	Evening primrose oil, refined	1628308	1
Caelo	Evening primrose oil, refined	1628315	1
Caelo	Evening primrose oil, refined	162891302	1
Caelo	Codliver oil (type A)	16304601	1
Caelo	Sesame oil, refined	16312501	4
Caelo	Sesame oil, refined	16312505	10
Caelo	Sesame oil, refined	16312507	8
Caelo	Sesame oil, refined	163125501	1
Caelo	Flaxseed oil, native	16321102	2
Caelo	Flaxseed oil, native	16321106	8
Caelo	Wheatgerm oil, refined	16321301	12

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Almond oil, refined	1632303	1
Caelo	Almond oil, refined	16327302	55
Caelo	Almond oil, refined	16327303	51
Caelo	Almond oil, refined	16327304	19
Caelo	Almond oil, refined	16327305	7
Caelo	Almond oil, refined	16327308	16
Caelo	Almond oil, refined	16327309	4
Caelo	Almond oil, refined	16327311	41
Caelo	Olive oil, native	163274	3
Caelo	Olive oil, native	16327402	51
Caelo	Olive oil, native	16327403	12
Caelo	Olive oil, native	16327406	17
Caelo	Almond oil, refined	1633327302	1
Caelo	Grape seed oil, refined	16339703	6
Caelo	Grape seed oil, refined	16339705	2
Caelo	Grape seed oil, refined	16339706	4
Caelo	Grape seed oil, refined	16339707	1
Caelo	Codliver oil (type A)	16344001	1
Caelo	Soy oil, refined	16347104	3
Caelo	Peanut oil, refined	16348001	61
Caelo	Peanut oil, refined	16348002	1
Caelo	Peanut oil, refined	16355302	5
Caelo	Laurel oil	16355701	2
Caelo	Laurel oil	16355702	1
Caelo	Almond oil, refined	1637302	2
Caelo	Almond oil, refined	1637308	1
Caelo	Almond oil, refined	1637311	1
Caelo	Peanut oil, refined	1671101	1
Caelo	Avocado oil, refined	1685908	1
Caelo	Evening primrose oil, refined	169071803	1
Caelo	Olive oil, native	16K24-B01_329002	1
Caelo	Almond oil, refined	17000426	1
Caelo	Olive oil, native	17001888	1
Caelo	Olive oil, native	17001926	2
Caelo	Oleyl oleate (stabilised)	170105181	1
Caelo	Sesame oil, refined	17011405	1
Caelo	Codliver oil (type A)	17011503	1
Caelo	Oleyl oleate (stabilised)	17013005	1
Caelo	Oleyl oleate (stabilised)	17013008	11
Caelo	Oleyl oleate (stabilised)	17013009	3
Caelo	Oleyl oleate (stabilised)	17013014	14
Caelo	Peanut oil, refined	17014402	1
Caelo	Olive oil, native	17020700/16212806	1
Caelo	Almond oil, refined	17021405	1
Caelo	Oleyl oleate (stabilised)	1703014	1
Caelo	Evening primrose oil, refined	170302001	1
Caelo	Evening primrose oil, refined	1703020-01	8
Caelo	Borage oil, refined, stabili…	170307801	1
Caelo	Shea butter, refined	17031501	1
Caelo	Codliver oil (type A)	17036701	2
Caelo	Olive oil, native	17038702	55
Caelo	Olive oil, native	17038703	10
Caelo	Avocado oil, refined	17038802	47
Caelo	Avocado oil, refined	17038803	10
Caelo	Avocado oil, refined	17038804	3
Caelo	Avocado oil, refined	17038811	7
Caelo	Avocado oil, refined	17038812	1
Caelo	Avocado oil, refined	17038814	2
Caelo	Avocado oil, refined	17038817	1
Caelo	Evening primrose oil, refined	1704018_01	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	1704018-01	3
Caelo	Evening primrose oil, refined	1704018-1	1
Caelo	Olive oil, native	17041404	1
Caelo	Peanut oil, refined	170420802	1
Caelo	Almond oil, refined	17042202	1
Caelo	Almond oil, refined	17042203	40
Caelo	Almond oil, refined	17042204	18
Caelo	Almond oil, refined	17042206	5
Caelo	Almond oil, refined	17042207	1
Caelo	Almond oil, refined	17042209	9
Caelo	Peanut oil, refined	17042802	57
Caelo	Flaxseed oil, native	17046711	2
Caelo	Peanut oil, refined	1704802	1
Caelo	Olive oil, native	17051403	1
Caelo	Oleyl oleate (stabilised)	17051700/15410207	1
Caelo	Borage oil, refined, stabili...	17053189	1
Caelo	Corn oil, refined	17055008	1
Caelo	Codliver oil (type A)	17055303	2
Caelo	Borage oil, refined, stabili...	17055401	22
Caelo	Borage oil, refined, stabili...	17055402	11
Caelo	Borage oil, refined, stabili...	17055407	1
Caelo	Codliver oil (type A)	17058301	1
Caelo	Codliver oil (type A)	17058302	2
Caelo	Almond oil, refined	17061403	1
Caelo	Olive oil, native	17062007	1
Caelo	Almond oil, refined	17070608	1
Caelo	Sunflower oil, refined	17073005	1
Caelo	Jojoba Oil, native	17073305	10
Caelo	Jojoba Oil, native	17073308	4
Caelo	Jojoba Oil, native	17073309	16
Caelo	Jojoba Oil, native	17073310	2
Caelo	Shea butter, refined	17085802	3
Caelo	Shea butter, refined	17085803	3
Caelo	Shea butter, refined	17085804	2
Caelo	Shea butter, refined	17085806	7
Caelo	Shea butter, refined	17085807	2
Caelo	Shea butter, refined	17085809	3
Caelo	Shea butter, refined	17085810	2
Caelo	Shea butter, refined	17085812	2
Caelo	Shea butter, refined	17085813	1
Caelo	Shea butter, refined	17085815	2
Caelo	Shea butter, refined	17085817	1
Caelo	Shea butter, refined	17085818	2
Caelo	Shea butter, refined	17085821	1
Caelo	Evening primrose oil, refined	1710011-01	4
Caelo	Evening primrose oil, refined	1710011-02	6
Caelo	Evening primrose oil, refined	1710011-11	1
Caelo	Almond oil, refined	17111402	1
Caelo	Almond oil, refined	171176512	1
Caelo	Olive oil, native	171211610	1
Caelo	Jojoba Oil, native	17121302	1
Caelo	Almond oil, refined	17121303	1
Caelo	Oleyl oleate (stabilised)	17121500/17013008	1
Caelo	Olive oil, native	171216	2
Caelo	Olive oil, native	17121602	32
Caelo	Olive oil, native	17121603	4
Caelo	Olive oil, native	17121604	9
Caelo	Olive oil, native	17121605	1
Caelo	Olive oil, native	17121606	35
Caelo	Olive oil, native	17121607	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Olive oil, native	17121608	9
Caelo	Olive oil, native	17121610	18
Caelo	Olive oil, native	17121611	1
Caelo	Olive oil, native	17121900/17121610	1
Caelo	Codliver oil (type A)	17137801	1
Caelo	Borage oil, refined, stabili...	1713M-02881	1
Caelo	Shea butter, refined	17149601	3
Caelo	Almond oil, refined	1716502	1
Caelo	Almond oil, refined	1716506	2
Caelo	Almond oil, refined	1716512	1
Caelo	Peanut oil, refined	17169001	36
Caelo	Peanut oil, refined	171690015409	1
Caelo	Peanut oil, refined	17169002	3
Caelo	Peanut oil, refined	17169010	41
Caelo	Peanut oil, refined	17169011	2
Caelo	Peanut oil, refined	17169018	41
Caelo	Peanut oil, refined	17169020	1
Caelo	Peanut oil, refined	171699010	1
Caelo	Almond oil, refined	17176501	29
Caelo	Almond oil, refined	17176502	22
Caelo	Almond oil, refined	17176503	10
Caelo	Almond oil, refined	17176504	1
Caelo	Almond oil, refined	17176505	1
Caelo	Almond oil, refined	17176506	25
Caelo	Almond oil, refined	17176507	14
Caelo	Almond oil, refined	17176508	4
Caelo	Almond oil, refined	17176509	1
Caelo	Almond oil, refined	17176511	15
Caelo	Almond oil, refined	17176512	11
Caelo	Almond oil, refined	17176513	1
Caelo	Almond oil, refined	17176514	1
Caelo	Sesame oil, refined	1717770	1
Caelo	Sesame oil, refined	17177701	11
Caelo	Sesame oil, refined	17177703	24
Caelo	Grape seed oil, refined	17206501	5
Caelo	Grape seed oil, refined	17206507	8
Caelo	Grape seed oil, refined	17206509	1
Caelo	Almond oil, refined	17207306	1
Caelo	Peanut oil, refined	17207905	28
Caelo	Almond oil, refined	17207906	25
Caelo	Almond oil, refined	17207907	12
Caelo	Almond oil, refined	17207908	1
Caelo	Rapeseed oil, refined	17213901	3
Caelo	Decyl oleate	17215601	18
Caelo	Wheatgerm oil, refined	17216701	7
Caelo	Wheatgerm oil, refined	17216702	2
Caelo	Wheatgerm oil, refined	17216705	7
Caelo	Olive oil, native	172236501	1
Caelo	Olive oil, native	1723605	1
Caelo	Flaxseed oil, native	17236401	5
Caelo	Flaxseed oil, native	17236404	1
Caelo	Flaxseed oil, native	17236408	5
Caelo	Flaxseed oil, native	17236411	1
Caelo	Olive oil, native	17236501	41
Caelo	Olive oil, native	17236502	5
Caelo	Olive oil, native	172365025615	1
Caelo	Olive oil, native	17236505	48
Caelo	Olive oil, native	17236506	2
Caelo	Olive oil, native	17236508	8
Caelo	Sunflower oil, refined	17242101	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Sunflower oil, refined	17242104	1
Caelo	Apricot kernel oil, refined	17251802	1
Caelo	Evening primrose oil, refined	17255801	59
Caelo	Evening primrose oil, refined	172558012x	1
Caelo	Evening primrose oil, refined	17255802	56
Caelo	Evening primrose oil, refined	17255803	25
Caelo	Evening primrose oil, refined	17255804	2
Caelo	Borage oil, refined, stabili…	17261805	2
Caelo	Shea butter, refined	17287505	3
Caelo	Shea butter, refined	17287506	2
Caelo	Shea butter, refined	17287508	1
Caelo	Shea butter, refined	17287509	1
Caelo	Shea butter, refined	17287510	4
Caelo	Shea butter, refined	17287514	1
Caelo	Wheatgerm oil, refined	17290301	12
Caelo	Wheatgerm oil, refined	17290302	1
Caelo	Codliver oil (type A)	17295101	2
Caelo	Soy oil, refined	17300001	9
Caelo	Corn oil, refined	17300102	1
Caelo	Borage oil, refined, stabili…	17307801	24
Caelo	Evening primrose oil, refined	17307802	18
Caelo	Flaxseed oil, native	17314401	4
Caelo	Flaxseed oil, native	17314405	1
Caelo	Evening primrose oil, refined	17322105	1
Caelo	Peanut oil, refined	17328601	97
Caelo	Peanut oil, refined	173286015616	1
Caelo	Peanut oil, refined	17328602	4
Caelo	Sesame oil, refined	17332102	6
Caelo	Sesame oil, refined	17332103	14
Caelo	Sesame oil, refined	17332103P-180904-2	1
Caelo	Sesame oil, refined	17332106	15
Caelo	Codliver oil (type A)	17344601	4
Caelo	Codliver oil (type A)	17344602	1
Caelo	Oleyl oleate (stabilised)	17358101	7
Caelo	Oleyl oleate (stabilised)	17358103	19
Caelo	Oleyl oleate (stabilised)	17358104	8
Caelo	Oleyl oleate (stabilised)	17358109	23
Caelo	Oleyl oleate (stabilised)	17358110	1
Caelo	Olive oil, native	17361101	63
Caelo	Olive oil, native	17361104	28
Caelo	Olive oil, native	17361106	54
Caelo	Olive oil, native	17361107	11
Caelo	Olive oil, native	17361108	6
Caelo	Borage oil, refined, stabili…	17361801	5
Caelo	Borage oil, refined, stabili…	17361802	1
Caelo	Borage oil, refined, stabili…	17361804	12
Caelo	Borage oil, refined, stabili…	17361805	14
Caelo	Borage oil, refined, stabili…	173618805	1
Caelo	Evening primrose oil, refined	1755601	1
Caelo	Peanut oil, refined	1769018	1
Caelo	Almond oil, refined	177906	1
Caelo	Peanut oil, refined	17A10-B01-335073	1
Caelo	Almond oil, refined	18000341	2
Caelo	Almond oil, refined	18000342	1
Caelo	Evening primrose oil, refined	180009101	1
Caelo	Evening primrose oil, refined	18001901	1
Caelo	Olive oil, native	18002118	2
Caelo	Olive oil, native	18002119	3
Caelo	Flaxseed oil, native	18002317	1
Caelo	Sunflower oil, refined	180027005	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	18003102	1
Caelo	Olive oil, native	18003204	1
Caelo	Olive oil, native	18003205	7
Caelo	Olive oil, native	18005452	2
Caelo	Olive oil, native	18005453	2
Caelo	Almond oil, refined	18006807	1
Caelo	Avocado oil, refined	18007501	21
Caelo	Avocado oil, refined	18007502	4
Caelo	Avocado oil, refined	18007503	2
Caelo	Evening primrose oil, refined	18009101	62
Caelo	Evening primrose oil, refined	18009102	32
Caelo	Evening primrose oil, refined	18009103	17
Caelo	Evening primrose oil, refined	18009104	2
Caelo	Evening primrose oil, refined	18009105	25
Caelo	Evening primrose oil, refined	18009106	31
Caelo	Evening primrose oil, refined	18009107	2
Caelo	Evening primrose oil, refined	18009108	1
Caelo	Evening primrose oil, refined	18009109	42
Caelo	Evening primrose oil, refined	1800910903385897	1
Caelo	Evening primrose oil, refined	18009110	47
Caelo	Evening primrose oil, refined	18009111	4
Caelo	Evening primrose oil, refined	18009114	22
Caelo	Evening primrose oil, refined	18009115	13
Caelo	Evening primrose oil, refined	18009116	16
Caelo	Evening primrose oil, refined	18009117	1
Caelo	Evening primrose oil, refined	1800914	1
Caelo	Evening primrose oil, refined	1800915	1
Caelo	Evening primrose oil, refined	180091701	1
Caelo	Wheatgerm oil, refined	18009501	7
Caelo	Wheatgerm oil, refined	18009502	2
Caelo	Wheatgerm oil, refined	18009505	8
Caelo	Wheatgerm oil, refined	18009506	4
Caelo	Wheatgerm oil, refined	18009509	4
Caelo	Wheatgerm oil, refined	18009510	1
Caelo	Peanut oil, refined	18014	1
Caelo	Peanut oil, refined	18014402	68
Caelo	Peanut oil, refined	18014403	1
Caelo	Peanut oil, refined	18014405	32
Caelo	Almond oil, refined	18015002	25
Caelo	Almond oil, refined	18015003	26
Caelo	Almond oil, refined	18015004	14
Caelo	Almond oil, refined	18015005	1
Caelo	Almond oil, refined	18015007	71
Caelo	Almond oil, refined	18015008	20
Caelo	Almond oil, refined	18015008-20180619Ma7	1
Caelo	Almond oil, refined	180154004	1
Caelo	Olive oil, native	1802011-01	1
Caelo	Peanut oil, refined	180208202	2
Caelo	Sunflower oil, refined	18027004	1
Caelo	Sunflower oil, refined	18027005	1
Caelo	Laurel oil	18028202	1
Caelo	Laurel oil	18028203	1
Caelo	Evening primrose oil, refined	1803006-01	14
Caelo	Evening primrose oil, refined	180300602	2
Caelo	Evening primrose oil, refined	1803006-02	5
Caelo	Soy lecithin, liquid	1803030-01	1
Caelo	Codliver oil (type A)	18031308	1
Caelo	Olive oil, native	18031506	1
Caelo	Olive oil, native	18041502	1
Caelo	Avocado oil, refined	18044901	30

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Avocado oil, refined	18044902	1
Caelo	Avocado oil, refined	18044905	3
Caelo	Avocado oil, refined	18044908	20
Caelo	Avocado oil, refined	18044909	3
Caelo	Avocado oil, refined	18044910	1
Caelo	Avocado oil, refined	18044911	5
Caelo	Avocado oil, refined	18044913	20
Caelo	Avocado oil, refined	18044914	2
Caelo	Rapeseed oil, refined	18047201	1
Caelo	Rapeseed oil, refined	18047204	1
Caelo	Borage oil, refined, stabili...	18050509	1
Caelo	Jojoba Oil, native	18057102	13
Caelo	Jojoba Oil, native	18057103	3
Caelo	Jojoba Oil, native	18057105	20
Caelo	Jojoba Oil, native	18057107	29
Caelo	Jojoba Oil, native	18057108	4
Caelo	Grape seed oil, refined	18065201	8
Caelo	Grape seed oil, refined	18065202	2
Caelo	Grape seed oil, refined	18065207	8
Caelo	Decyl oleate	18069402	17
Caelo	Decyl oleate	18069404	3
Caelo	Decyl oleate	18069407	12
Caelo	Almond oil, refined	180706003	1
Caelo	Almond oil, refined	18070602	47
Caelo	Almond oil, refined	18070603	16
Caelo	Almond oil, refined	18070604	2
Caelo	Almond oil, refined	18070605	28
Caelo	Almond oil, refined	18070606	1
Caelo	Almond oil, refined	18070608	19
Caelo	Almond oil, refined	1807063	1
Caelo	Almond oil, refined	1807608	1
Caelo	Decyl oleate	18079402	1
Caelo	Almond oil, refined	18080033/2	1
Caelo	Borage oil, refined, stabili...	18080501	41
Caelo	Borage oil, refined, stabili...	18080502	1
Caelo	Borage oil, refined, stabili...	18080504	14
Caelo	Borage oil, refined, stabili...	18080506	3
Caelo	Borage oil, refined, stabili...	18080507	2
Caelo	Borage oil, refined, stabili...	18080509	7
Caelo	Borage oil, refined, stabili...	18080510	2
Caelo	Borage oil, refined, stabili...	18080511	1
Caelo	Borage oil, refined, stabili...	1808054	1
Caelo	Codliver oil (type A)	18080801	8
Caelo	Flaxseed oil, native	180808181	1
Caelo	Almond oil, refined	18081402	1
Caelo	Grape seed oil, refined	18085201	2
Caelo	Jojoba Oil, native	18097109	1
Caelo	Flaxseed oil, native	18120901	10
Caelo	Flaxseed oil, native	18120904	1
Caelo	Sunflower oil, refined	18121004	10
Caelo	Olive oil, native	1812101	1
Caelo	Olive oil, native	18121101	47
Caelo	Olive oil, native	18121102	15
Caelo	Olive oil, native	18121106	1
Caelo	Olive oil, native	1812111	1
Caelo	Olive oil, native	181211102	1
Caelo	Almond oil, refined	1815007	2
Caelo	Evening primrose oil, refined	1816211	1
Caelo	Almond oil, refined	18184101	36
Caelo	Almond oil, refined	18184102	47

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Almond oil, refined	18184107	34
Caelo	Almond oil, refined	18184108	18
Caelo	Almond oil, refined	18184109	12
Caelo	Almond oil, refined	18184110	1
Caelo	Almond oil, refined	18184113	46
Caelo	Almond oil, refined	18184114	31
Caelo	Almond oil, refined	18184115	10
Caelo	Almond oil, refined	18184116	1
Caelo	Almond oil, refined	181844114	1
Caelo	Almond oil, refined	18184413	1
Caelo	Codliver oil (type A)	18184501	5
Caelo	Codliver oil (type A)	18191801	3
Caelo	Peanut oil, refined	18196007	1
Caelo	Olive oil, native	18206101	1
Caelo	Olive oil, native	18208101	81
Caelo	Olive oil, native	18208102	19
Caelo	Olive oil, native	18208105	1
Caelo	Olive oil, native	18208106	42
Caelo	Olive oil, native	18208107	6
Caelo	Olive oil, native	18208108	1
Caelo	Olive oil, native	18208110	36
Caelo	Olive oil, native	18208111	1
Caelo	Peanut oil, refined	18208202	104
Caelo	Peanut oil, refined	18208204	4
Caelo	Peanut oil, refined	18208207	23
Caelo	Evening primrose oil, refined	1821206	1
Caelo	Codliver oil (type A)	18213302	4
Caelo	Decyl oleate	18214604	8
Caelo	Evening primrose oil, refined	1821602	2
Caelo	Evening primrose oil, refined	182160206	1
Caelo	Evening primrose oil, refined	182162003	1
Caelo	Evening primrose oil, refined	18216201	29
Caelo	Evening primrose oil, refined	18216202	50
Caelo	Evening primrose oil, refined	18216203	29
Caelo	Evening primrose oil, refined	18216204	2
Caelo	Evening primrose oil, refined	18216206	70
Caelo	Evening primrose oil, refined	18216207	19
Caelo	Evening primrose oil, refined	18216208	13
Caelo	Evening primrose oil, refined	18216211	21
Caelo	Evening primrose oil, refined	18216212	1
Caelo	Evening primrose oil, refined	18216214	24
Caelo	Evening primrose oil, refined	18216215	6
Caelo	Evening primrose oil, refined	18216216	1
Caelo	Evening primrose oil, refined	18216217	20
Caelo	Evening primrose oil, refined	18216218	15
Caelo	Evening primrose oil, refined	18216219	16
Caelo	Evening primrose oil, refined	18216220	2
Caelo	Evening primrose oil, refined	18216221	1
Caelo	Olive oil, native	18216902	1
Caelo	Shea butter, refined	18222303	3
Caelo	Shea butter, refined	18222304	3
Caelo	Shea butter, refined	18222305	5
Caelo	Shea butter, refined	18222306	1
Caelo	Grape seed oil, refined	1822410	1
Caelo	Grape seed oil, refined	18224202	8
Caelo	Grape seed oil, refined	18224203	1
Caelo	Grape seed oil, refined	18224207	1
Caelo	Grape seed oil, refined	18224210	9
Caelo	Grape seed oil, refined	18224211	1
Caelo	Grape seed oil, refined	18224213	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Shea butter, refined	18236002	2
Caelo	Shea butter, refined	18236003	2
Caelo	Shea butter, refined	18236004	7
Caelo	Shea butter, refined	18236005	1
Caelo	Wheatgerm oil, refined	18241002	4
Caelo	Wheatgerm oil, refined	18241003	2
Caelo	Wheatgerm oil, refined	18241006	6
Caelo	Wheatgerm oil, refined	18241007	2
Caelo	Wheatgerm oil, refined	18241008	1
Caelo	Wheatgerm oil, refined	18241011	1
Caelo	Wheatgerm oil, refined	18241012	2
Caelo	Jojoba Oil, native	1824407P-191022-7	1
Caelo	Corn oil, refined	18244602	4
Caelo	Jojoba Oil, native	18244705	1
Caelo	Jojoba Oil, native	18244706	1
Caelo	Jojoba Oil, native	18244707	15
Caelo	Jojoba Oil, native	18244710	3
Caelo	Jojoba Oil, native	18244711	2
Caelo	Jojoba Oil, native	18244712	2
Caelo	Jojoba Oil, native	18244714	6
Caelo	Jojoba Oil, native	18244715	6
Caelo	Flaxseed oil, native	18252604	4
Caelo	Flaxseed oil, native	18252605	2
Caelo	Borage oil, refined, stabili…	1825808	1
Caelo	Evening primrose oil, refined	1826212	1
Caelo	Oleyl oleate (stabilised)	18272002	18
Caelo	Oleyl oleate (stabilised)	18272003	2
Caelo	Oleyl oleate (stabilised)	18272005	15
Caelo	Oleyl oleate (stabilised)	18272007	1
Caelo	Oleyl oleate (stabilised)	18272008	1
Caelo	Oleyl oleate (stabilised)	18272011	9
Caelo	Oleyl oleate (stabilised)	18272015	22
Caelo	Oleyl oleate (stabilised)	18272016	2
Caelo	Olive oil, native	1828110	1
Caelo	Decyl oleate	18282502	4
Caelo	Decyl oleate	18282506	1
Caelo	Peanut oil, refined	1829009	1
Caelo	Flaxseed oil, native	18293804	2
Caelo	Almond oil, refined	1829503	1
Caelo	Almond oil, refined	1829509	1
Caelo	Borage oil, refined, stabili…	18295801	4
Caelo	Borage oil, refined, stabili…	18295803	1
Caelo	Borage oil, refined, stabili…	18295804	3
Caelo	Borage oil, refined, stabili…	18295807	5
Caelo	Borage oil, refined, stabili…	18295808	9
Caelo	Borage oil, refined, stabili…	18295809	1
Caelo	Borage oil, refined, stabili…	18295812	3
Caelo	Borage oil, refined, stabili…	18295815	3
Caelo	Borage oil, refined, stabili…	18295816	1
Caelo	Borage oil, refined, stabili…	182958904	1
Caelo	Almond oil, refined	18295901	25
Caelo	Almond oil, refined	18295902	36
Caelo	Almond oil, refined	18295903	18
Caelo	Almond oil, refined	18295905	3
Caelo	Almond oil, refined	18295908	34
Caelo	Almond oil, refined	18295909	28
Caelo	Almond oil, refined	18295910	3
Caelo	Almond oil, refined	18295911	1
Caelo	Almond oil, refined	18295914	1
Caelo	Almond oil, refined	18295915	15

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Almond oil, refined	18295916	1
Caelo	Peanut oil, refined	1829600002	1
Caelo	Peanut oil, refined	18296001	40
Caelo	Peanut oil, refined	18296002	86
Caelo	Peanut oil, refined	18296003	1
Caelo	Peanut oil, refined	18296006	2
Caelo	Peanut oil, refined	18296007	30
Caelo	Peanut oil, refined	18296009	39
Caelo	Avocado oil, refined	18303809	1
Caelo	Avocado oil, refined	18306801	3
Caelo	Avocado oil, refined	18306802	2
Caelo	Avocado oil, refined	18306804	2
Caelo	Avocado oil, refined	18306805	1
Caelo	Avocado oil, refined	18306808	15
Caelo	Avocado oil, refined	18306811	6
Caelo	Peanut oil, refined	183108003	1
Caelo	Olive oil, native	18311901	20
Caelo	Olive oil, native	18311902	19
Caelo	Olive oil, native	18311903	4
Caelo	Olive oil, native	18311906	20
Caelo	Olive oil, native	18311907	1
Caelo	Olive oil, native	18311908	2
Caelo	Olive oil, native	18311910	32
Caelo	Grape seed oil, refined	18315903	2
Caelo	Grape seed oil, refined	18315906	1
Caelo	Grape seed oil, refined	18315909	1
Caelo	Grape seed oil, refined	18315910	1
Caelo	Grape seed oil, refined	18315913	3
Caelo	Grape seed oil, refined	18315914	1
Caelo	Soy oil, refined	18319901	3
Caelo	Soy oil, refined	18319909	2
Caelo	Codliver oil (type A)	183223907	1
Caelo	Codliver oil (type A)	18323907	1
Caelo	Apricot kernel oil, refined	18329901	2
Caelo	Sesame oil, refined	18331301	7
Caelo	Sesame oil, refined	18331302	9
Caelo	Sesame oil, refined	18331303	1
Caelo	Sesame oil, refined	18331305	4
Caelo	Sesame oil, refined	18331308	5
Caelo	Sesame oil, refined	18331309	4
Caelo	Sesame oil, refined	183331301	1
Caelo	Jojoba Oil, native	185715	1
Caelo	Decyl oleate	1869402	1
Caelo	Almond oil, refined	189015003	1
Caelo	Olive oil, native	18912182	1
Caelo	Peanut oil, refined	18926002	1
Caelo	Peanut oil, refined	19/592/5	1
Caelo	Almond oil, refined	1900000779004	1
Caelo	Olive oil, native	190000452003	2
Caelo	Avocado oil, refined	190000459011	1
Caelo	Almond oil, refined	190000779004	1
Caelo	Olive oil, native	19000227	6
Caelo	Olive oil, native	190004520003	1
Caelo	Olive oil, native	19000452002	6
Caelo	Olive oil, native	19000452003	47
Caelo	Olive oil, native	19000452005	2
Caelo	Olive oil, native	19000452006	1
Caelo	Avocado oil, refined	19000459002	4
Caelo	Avocado oil, refined	19000459003	27
Caelo	Avocado oil, refined	19000459005	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Avocado oil, refined	19000459007	19
Caelo	Avocado oil, refined	19000459008	2
Caelo	Avocado oil, refined	19000459011	15
Caelo	Avocado oil, refined	19000459012	3
Caelo	Laurel oil	19000520004	2
Caelo	Codliver oil (type A)	19000632001	2
Caelo	Codliver oil (type A)	19000632003	1
Caelo	Codliver oil (type A)	19000632004	1
Caelo	Codliver oil (type A)	19000632005	1
Caelo	Almond oil, refined	19000779001	89
Caelo	Almond oil, refined	19000779003	1
Caelo	Almond oil, refined	19000779004	37
Caelo	Almond oil, refined	19000779006	9
Caelo	Almond oil, refined	19000779007	7
Caelo	Almond oil, refined	1900077901	1
Caelo	Almond oil, refined	19000779066	1
Caelo	Almond oil, refined	190007793003	1
Caelo	Almond oil, refined	1900079007	1
Caelo	Almond oil, refined	19000799001	1
Caelo	Almond oil, refined	19001701	1
Caelo	Olive oil, native	19002973	1
Caelo	Olive oil, native	19002974	1
Caelo	Wheatgerm oil, refined	19003004	1
Caelo	Olive oil, native	19006021	1
Caelo	Codliver oil (type A)	1900632003	1
Caelo	Almond oil, refined	1900779001	1
Caelo	Almond oil, refined	1900779004	1
Caelo	Almond oil, refined	19007790040	1
Caelo	Almond oil, refined	1900779007	1
Caelo	Evening primrose oil, refined	190104601	2
Caelo	Evening primrose oil, refined	1901046-01	6
Caelo	Codliver oil (type A)	19021808	1
Caelo	Peanut oil, refined	1902485006	1
Caelo	Codliver oil (type A)	19032201	1
Caelo	Almond oil, refined	1904518	1
Caelo	Sunflower oil, refined	19046501	1
Caelo	Sunflower oil, refined	19046504	4
Caelo	Sunflower oil, refined	19046506	5
Caelo	Olive oil, native	190518061eber	1
Caelo	Codliver oil (type A)	19051807	1
Caelo	Peanut oil, refined	190592008	1
Caelo	Peanut oil, refined	19059202	1
Caelo	Peanut oil, refined	19059205	48
Caelo	Peanut oil, refined	19059206	1
Caelo	Peanut oil, refined	190592066	1
Caelo	Peanut oil, refined	19059208	14
Caelo	Peanut oil, refined	19059209	1
Caelo	Peanut oil, refined	19059212	1
Caelo	Peanut oil, refined	19059214	15
Caelo	Jojoba Oil, native	19061307	1
Caelo	Peanut oil, refined	190631806	1
Caelo	Almond oil, refined	19064510	1
Caelo	Olive oil, native	19076101	3
Caelo	Olive oil, native	19076102	1
Caelo	Olive oil, native	19076104	22
Caelo	Olive oil, native	19076105	10
Caelo	Olive oil, native	19076109	53
Caelo	Olive oil, native	19076110	6
Caelo	Olive oil, native	19076111	1
Caelo	Olive oil, native	190766109	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Avocado oil, refined	19081501	1
Caelo	Peanut oil, refined	19081707	1
Caelo	Almond oil, refined	19084502	6
Caelo	Almond oil, refined	19084503	7
Caelo	Almond oil, refined	19084504	1
Caelo	Almond oil, refined	19084505	29
Caelo	Almond oil, refined	19084506	6
Caelo	Almond oil, refined	19084507	6
Caelo	Almond oil, refined	19084510	30
Caelo	Almond oil, refined	19084511	13
Caelo	Almond oil, refined	19084512	12
Caelo	Almond oil, refined	19084513	2
Caelo	Almond oil, refined	19084517	1
Caelo	Almond oil, refined	19084518	8
Caelo	Decyl oleate	190883001	6
Caelo	Decyl oleate	19088301	5
Caelo	Decyl oleate	19088302	1
Caelo	Laurel oil	19091902	4
Caelo	Laurel oil	19091907	1
Caelo	Laurel oil	19091910	1
Caelo	Flaxseed oil, native	19099401	4
Caelo	Codliver oil (type A)	19100301	3
Caelo	Codliver oil (type A)	19101704	1
Caelo	Evening primrose oil, refined	1911009-01	4
Caelo	Corn oil, refined	19112904	1
Caelo	Oleyl oleate (stabilised)	191191003	13
Caelo	Oleyl oleate (stabilised)	191191006	1
Caelo	Olive oil, native	1912005	2
Caelo	Wheatgerm oil, refined	19143201	12
Caelo	Wheatgerm oil, refined	19143202	2
Caelo	Jojoba Oil, native	191529002	3
Caelo	Jojoba Oil, native	191529004	31
Caelo	Jojoba Oil, native	191529005	3
Caelo	Jojoba Oil, native	191529006	8
Caelo	Jojoba Oil, native	19152901	4
Caelo	Evening primrose oil, refined	19161101	1
Caelo	Evening primrose oil, refined	1916401	1
Caelo	Evening primrose oil, refined	191644002	3
Caelo	Evening primrose oil, refined	191644003	14
Caelo	Evening primrose oil, refined	19164401	80
Caelo	Evening primrose oil, refined	19164402	23
Caelo	Evening primrose oil, refined	19164403	1
Caelo	Evening primrose oil, refined	19164404	1
Caelo	Evening primrose oil, refined	19164407	22
Caelo	Evening primrose oil, refined	19164408	1
Caelo	Evening primrose oil, refined	19164409	2
Caelo	Flaxseed oil, native	19164501	5
Caelo	Evening primrose oil, refined	19175401	57
Caelo	Sunflower oil, refined	191755001	1
Caelo	Sunflower oil, refined	191755002	1
Caelo	Sunflower oil, refined	191755005	1
Caelo	Almond oil, refined	1918710	1
Caelo	Peanut oil, refined	19187101	62
Caelo	Almond oil, refined	19187102	29
Caelo	Almond oil, refined	19187106	7
Caelo	Almond oil, refined	19187107	11
Caelo	Almond oil, refined	19187108	2
Caelo	Almond oil, refined	19187110	1
Caelo	Evening primrose oil, refined	19194407	1
Caelo	Shea butter, refined	192058003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Shea butter, refined	192058004	1
Caelo	Shea butter, refined	192058005	2
Caelo	Shea butter, refined	19205802	2
Caelo	Shea butter, refined	19205803	6
Caelo	Shea butter, refined	19205804	2
Caelo	Shea butter, refined	192085803	1
Caelo	Olive oil, native	19212001	11
Caelo	Olive oil, native	19212002	5
Caelo	Olive oil, native	19212003	1
Caelo	Olive oil, native	19212005	37
Caelo	Olive oil, native	19212006	3
Caelo	Olive oil, native	1921205	1
Caelo	Laurel oil	19236303	1
Caelo	Grape seed oil, refined	19241005	1
Caelo	Grape seed oil, refined	192412001	1
Caelo	Grape seed oil, refined	192412002	3
Caelo	Grape seed oil, refined	192412005	7
Caelo	Grape seed oil, refined	192412006	2
Caelo	Grape seed oil, refined	19241203	1
Caelo	Grape seed oil, refined	19241204	2
Caelo	Peanut oil, refined	192485001	1
Caelo	Peanut oil, refined	192485006	64
Caelo	Peanut oil, refined	192485007	3
Caelo	Peanut oil, refined	192485011	24
Caelo	Borage oil, refined, stabili…	192492001	20
Caelo	Borage oil, refined, stabili…	192492003	12
Caelo	Borage oil, refined, stabili…	192492004	1
Caelo	Borage oil, refined, stabili…	192492005	9
Caelo	Borage oil, refined, stabili…	19249203	2
Caelo	Borage oil, refined, stabili…	19249204	8
Caelo	Flaxseed oil, native	192554003	3
Caelo	Sesame oil, refined	1925600002	1
Caelo	Sesame oil, refined	1925600003	1
Caelo	Sesame oil, refined	192560002	7
Caelo	Sesame oil, refined	192560003	9
Caelo	Sesame oil, refined	19256001	1
Caelo	Sesame oil, refined	19256002	9
Caelo	Sesame oil, refined	19256003	1
Caelo	Sesame oil, refined	1926002	1
Caelo	Evening primrose oil, refined	19282001	1
Caelo	Evening primrose oil, refined	19282002	1
Caelo	Decyl oleate	192834003	2
Caelo	Decyl oleate	192834006	4
Caelo	Evening primrose oil, refined	192892002	1
Caelo	Evening primrose oil, refined	192962002	1
Caelo	Evening primrose oil, refined	192982001	58
Caelo	Evening primrose oil, refined	192982002	56
Caelo	Evening primrose oil, refined	192982003	13
Caelo	Evening primrose oil, refined	192982004	55
Caelo	Evening primrose oil, refined	192982004P-200806-5	1
Caelo	Evening primrose oil, refined	192982005	2
Caelo	Evening primrose oil, refined	192982006	15
Caelo	Evening primrose oil, refined	192982008	1
Caelo	Evening primrose oil, refined	192982009	5
Caelo	Evening primrose oil, refined	192982010	10
Caelo	Evening primrose oil, refined	192982011	3
Caelo	Evening primrose oil, refined	192982012	11
Caelo	Evening primrose oil, refined	192982013	14
Caelo	Olive oil, native	19311901	1
Caelo	Evening primrose oil, refined	19992982010	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Jojoba Oil, native	200000722003	1
Caelo	Evening primrose oil, refined	200001052001	1
Caelo	Evening primrose oil, refined	2000010520015	1
Caelo	Evening primrose oil, refined	200001052004	1
Caelo	Evening primrose oil, refined	200001052005	2
Caelo	Olive oil, native	200001410002	1
Caelo	Olive oil, native	200001410003	1
Caelo	Peanut oil, refined	200001473008	1
Caelo	Almond oil, refined	200001624003	1
Caelo	Olive oil, native	20000171	1
Caelo	Almond oil, refined	200002892002	1
Caelo	Olive oil, native	200003049004	1
Caelo	Flaxseed oil, native	20000372003	6
Caelo	Evening primrose oil, refined	2000040470100	1
Caelo	Decyl oleate	200004076003	1
Caelo	Oleyl oleate (stabilised)	20000495002	11
Caelo	Oleyl oleate (stabilised)	20000495005	7
Caelo	Corn oil, refined	20000641001	2
Caelo	Corn oil, refined	20000641005	1
Caelo	Jojoba Oil, native	20000722002	2
Caelo	Jojoba Oil, native	20000722003	9
Caelo	Jojoba Oil, native	20000722007	2
Caelo	Jojoba Oil, native	20000722008	6
Caelo	Jojoba Oil, native	20000722009	2
Caelo	Sesame oil, refined	20000741001	5
Caelo	Sesame oil, refined	20000741003	1
Caelo	Almond oil, refined	20000746002	1
Caelo	Grape seed oil, refined	20000789004	1
Caelo	Grape seed oil, refined	20000789005	1
Caelo	Grape seed oil, refined	20000789008	1
Caelo	Borage oil, refined, stabili…	20000791002	6
Caelo	Borage oil, refined, stabili…	20000791003	10
Caelo	Wheatgerm oil, refined	20000829002	2
Caelo	Wheatgerm oil, refined	20000829003	1
Caelo	Codliver oil (type A)	20000831003	1
Caelo	Wheatgerm oil, refined	20000929	1
Caelo	Sunflower oil, refined	20000985005	1
Caelo	Codliver oil (type A)	20001050001	2
Caelo	Evening primrose oil, refined	2000105001	1
Caelo	Evening primrose oil, refined	20001052001	38
Caelo	Evening primrose oil, refined	20001052003	44
Caelo	Evening primrose oil, refined	20001052004	9
Caelo	Evening primrose oil, refined	20001052005	24
Caelo	Evening primrose oil, refined	20001052009	4
Caelo	Evening primrose oil, refined	200010522003	1
Caelo	Shea butter, refined	20001135005	6
Caelo	Shea butter, refined	20001135009	3
Caelo	Flaxseed oil, native	20001305002	1
Caelo	Olive oil, native	2000140003	1
Caelo	Olive oil, native	200014100003	1
Caelo	Olive oil, native	20001410001	10
Caelo	Olive oil, native	20001410002	65
Caelo	Olive oil, native	20001410003	36
Caelo	Olive oil, native	20001410004	5
Caelo	Olive oil, native	2000141002	1
Caelo	Olive oil, native	2000141003	2
Caelo	Peanut oil, refined	20001473003	2
Caelo	Peanut oil, refined	20001473004	46
Caelo	Peanut oil, refined	20001473006	2
Caelo	Peanut oil, refined	20001473008	30

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Peanut oil, refined	20001473010	2
Caelo	Wheatgerm oil, refined	20001556003	6
Caelo	Wheatgerm oil, refined	20001556007	4
Caelo	Wheatgerm oil, refined	20001556012	5
Caelo	Soy oil, refined	20001575001	1
Caelo	Soy oil, refined	20001575006	1
Caelo	Almond oil, refined	20001624001	2
Caelo	Almond oil, refined	20001624002	5
Caelo	Almond oil, refined	20001624003	25
Caelo	Almond oil, refined	20001624004	37
Caelo	Almond oil, refined	20001624006	9
Caelo	Almond oil, refined	20001624007	29
Caelo	Almond oil, refined	20001624008	1
Caelo	Almond oil, refined	20001624011	2
Caelo	Almond oil, refined	20001624012	15
Caelo	Almond oil, refined	2000162404	1
Caelo	Almond oil, refined	20001625012	1
Caelo	Avocado oil, refined	20001638001	1
Caelo	Avocado oil, refined	20001638003	10
Caelo	Avocado oil, refined	20001638004	2
Caelo	Avocado oil, refined	20001638005	1
Caelo	Avocado oil, refined	20001638006	2
Caelo	Avocado oil, refined	20001638007	3
Caelo	Grape seed oil, refined	20001744002	2
Caelo	Apricot kernel oil, refined	20001746003	2
Caelo	Apricot kernel oil, refined	20002355003	1
Caelo	Oleyl oleate (stabilised)	20002648002	11
Caelo	Laurel oil	20002806001	1
Caelo	Almond oil, refined	20002892001	13
Caelo	Almond oil, refined	20002892002	2
Caelo	Olive oil, native	20003049003	45
Caelo	Olive oil, native	20003049004	7
Caelo	Almond oil, refined	20003218002	1
Caelo	Borage oil, refined, stabili…	20003248002	8
Caelo	Borage oil, refined, stabili…	20003248003	2
Caelo	Codliver oil (type A)	20003364002	1
Caelo	Olive oil, native	200034009003	1
Caelo	Almond oil, refined	20003418001	7
Caelo	Almond oil, refined	20003418002	21
Caelo	Almond oil, refined	20003418003	1
Caelo	Almond oil, refined	20003418004	40
Caelo	Almond oil, refined	20003418007	11
Caelo	Almond oil, refined	2000341887	1
Caelo	Peanut oil, refined	20003610005	6
Caelo	Peanut oil, refined	20003610006	27
Caelo	Peanut oil, refined	20003610006/14042104	1
Caelo	Peanut oil, refined	20003610007	3
Caelo	Peanut oil, refined	20003610014	25
Caelo	Sesame oil, refined	20003617002	1
Caelo	Sesame oil, refined	20003617003	6
Caelo	Sesame oil, refined	20003617004	2
Caelo	Almond oil, refined	20003718007	1
Caelo	Corn oil, refined	20003898002	2
Caelo	Olive oil, native	20003907003	1
Caelo	Olive oil, native	20004028	2
Caelo	Evening primrose oil, refined	200040447009	1
Caelo	Evening primrose oil, refined	20004047002	3
Caelo	Evening primrose oil, refined	20004047006	3
Caelo	Evening primrose oil, refined	20004047008	39
Caelo	Evening primrose oil, refined	20004047009	38

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	20004047010	7
Caelo	Evening primrose oil, refined	20004047011	4
Caelo	Evening primrose oil, refined	20004047100	1
Caelo	Codliver oil (type A)	20004067002	1
Caelo	Oleyl oleate (stabilised)	20004076004	2
Caelo	Borage oil, refined, stabili…	20004100002	14
Caelo	Borage oil, refined, stabili…	20004100002-2	1
Caelo	Borage oil, refined, stabili…	20004100004	4
Caelo	Borage oil, refined, stabili…	20004100005	4
Caelo	Borage oil, refined, stabili…	20004100009	3
Caelo	Rapeseed oil, refined	20004106004	1
Caelo	Flaxseed oil, native	20004226002	2
Caelo	Flaxseed oil, native	20004433003	4
Caelo	Wheatgerm oil, refined	20004490005	1
Caelo	Wheatgerm oil, refined	20004490008	2
Caelo	Peanut oil, refined	2000473008	1
Caelo	Olive oil, native	20006049003	1
Caelo	Jojoba Oil, native	2000722002	1
Caelo	Jojoba Oil, native	2000722008	1
Caelo	Evening primrose oil, refined	20008037-02	1
Caelo	Evening primrose oil, refined	2001052001	1
Caelo	Evening primrose oil, refined	2001052009	1
Caelo	Olive oil, native	2001410001	1
Caelo	Almond oil, refined	2001624003	1
Caelo	Almond oil, refined	2001624012	1
Caelo	Peanut oil, refined	20021502	1
Caelo	Almond oil, refined	2002311950	1
Caelo	Avocado oil, refined	2002884003	1
Caelo	Borage oil, refined, stabili…	2003248004	1
Caelo	Evening primrose oil, refined	2004047006	1
Caelo	Evening primrose oil, refined	2004047009	1
Caelo	Olive oil, native	20041701	1
Caelo	Olive oil, native	20061207	1
Caelo	Olive oil, native	20061502	1
Caelo	Almond oil, refined	20081301	1
Caelo	Olive oil, native	20101801	1
Caelo	Evening primrose oil, refined	2011409	1
Caelo	Wheatgerm oil, refined	2011904	1
Caelo	Borage oil, refined, stabili…	2011906	1
Caelo	Almond oil, refined	2013U01950	1
Caelo	Evening primrose oil, refined	20140612-18	1
Caelo	Almond oil, refined	20150612-2	1
Caelo	Almond oil, refined	2021303	1
Caelo	Olive oil, native	2021501	1
Caelo	Olive oil, native	2021502	1
Caelo	Olive oil, native	20270912-4	1
Caelo	Olive oil, native	2061503	1
Caelo	Avocado oil, refined	2081303	1
Caelo	Almond oil, refined	2091708	1
Caelo	Codliver oil (type A)	2091712	1
Caelo	Peanut oil, refined	210002810004	1
Caelo	Evening primrose oil, refined	21000319002	1
Caelo	Evening primrose oil, refined	210003319002	1
Caelo	Oleyl oleate (stabilised)	21000767001	8
Caelo	Oleyl oleate (stabilised)	21000767005	5
Caelo	Olive oil, native	21000836002	10
Caelo	Olive oil, native	21000836004	3
Caelo	Olive oil, native	21000836005	2
Caelo	Olive oil, native	21000836006	21
Caelo	Olive oil, native	21000836008	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	21000915002	17
Caelo	Evening primrose oil, refined	21000915003	20
Caelo	Evening primrose oil, refined	21000915004	4
Caelo	Evening primrose oil, refined	21000915006	13
Caelo	Evening primrose oil, refined	21000915007	8
Caelo	Evening primrose oil, refined	21000915008	6
Caelo	Evening primrose oil, refined	21000915063	1
Caelo	Jojoba Oil, native	21001028001	1
Caelo	Jojoba Oil, native	21001028011	1
Caelo	Peanut oil, refined	21001091003	14
Caelo	Peanut oil, refined	21001091005	2
Caelo	Peanut oil, refined	21001091007	3
Caelo	Almond oil, refined	21001240004	6
Caelo	Almond oil, refined	21001240005	2
Caelo	Almond oil, refined	21001240006	31
Caelo	Almond oil, refined	21001240007	12
Caelo	Almond oil, refined	2100124006	1
Caelo	Almond oil, refined	2100124007	1
Caelo	Sesame oil, refined	21001258008	1
Caelo	Soy oil, refined	21001264003	1
Caelo	Decyl oleate	21001300001	1
Caelo	Sesame oil, refined	210013558005	1
Caelo	Sesame oil, refined	21001358001	2
Caelo	Sesame oil, refined	21001358003	2
Caelo	Sesame oil, refined	21001358004	2
Caelo	Sesame oil, refined	21001358008	3
Caelo	Avocado oil, refined	21001530002	4
Caelo	Avocado oil, refined	21001530003	1
Caelo	Avocado oil, refined	21001530006	2
Caelo	Flaxseed oil, native	21002087002	2
Caelo	Borage oil, refined, stabili…	21002207002	2
Caelo	Borage oil, refined, stabili…	21002207003	2
Caelo	Borage oil, refined, stabili…	21002207004	3
Caelo	Borage oil, refined, stabili…	21002207007	1
Caelo	Borage oil, refined, stabili…	21002207009	1
Caelo	Codliver oil (type A)	21002208001	1
Caelo	Codliver oil (type A)	21002208002	1
Caelo	Codliver oil (type A)	21002208003	1
Caelo	Olive oil, native	21002271002	21
Caelo	Olive oil, native	21002271006	3
Caelo	Sunflower oil, refined	21002312005	1
Caelo	Almond oil, refined	2100236005	1
Caelo	Almond oil, refined	21002363002	1
Caelo	Almond oil, refined	21002363003	1
Caelo	Almond oil, refined	21002363004	1
Caelo	Almond oil, refined	21002363005	28
Caelo	Almond oil, refined	21002363006	21
Caelo	Almond oil, refined	21002363008	2
Caelo	Almond oil, refined	21002363009	8
Caelo	Almond oil, refined	210023663009	1
Caelo	Decyl oleate	21002726002	1
Caelo	Peanut oil, refined	21002810004	6
Caelo	Peanut oil, refined	21002810009	2
Caelo	Peanut oil, refined	2100281004	1
Caelo	Avocado oil, refined	21002884003	1
Caelo	Avocado oil, refined	21002884006	2
Caelo	Wheatgerm oil, refined	21002983003	2
Caelo	Grape seed oil, refined	21002984003	1
Caelo	Olive oil, native	21003239002	7
Caelo	Olive oil, native	21003239003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Evening primrose oil, refined	21003319001	8
Caelo	Evening primrose oil, refined	21003319002	20
Caelo	Evening primrose oil, refined	21003319003	19
Caelo	Evening primrose oil, refined	21003319005	3
Caelo	Almond oil, refined	21003729002	2
Caelo	Almond oil, refined	21003729003	5
Caelo	Almond oil, refined	21003729004	5
Caelo	Almond oil, refined	21003729006	10
Caelo	Almond oil, refined	21003729007	1
Caelo	Peanut oil, refined	21003839005	1
Caelo	Olive oil, native	21004008002	1
Caelo	Olive oil, native	21004008004	5
Caelo	Evening primrose oil, refined	21004228002	1
Caelo	Evening primrose oil, refined	21004228003	7
Caelo	Olive oil, native	2100836006	1
Caelo	Almond oil, refined	21011304	1
Caelo	Almond oil, refined	2101405	1
Caelo	Almond oil, refined	21021303	1
Caelo	Jojoba Oil, native	21041504	1
Caelo	Almond oil, refined	21041713	1
Caelo	Olive oil, native	21041714	1
Caelo	Evening primrose oil, refined	21041716	1
Caelo	Sesame oil, refined	21051305	1
Caelo	Oleyl oleate (stabilised)	21061302	1
Caelo	Olive oil, native	210818B	1
Caelo	Codliver oil (type A)	21101401	1
Caelo	Codliver oil (type A)	21111204	1
Caelo	Almond oil, refined	21112PML01	1
Caelo	Evening primrose oil, refined	211202(21000915007)	1
Caelo	Peanut oil, refined	21121205	1
Caelo	Evening primrose oil, refined	211227(21003319003)	1
Caelo	Olive oil, native	2113Q02000	1
Caelo	Codliver oil (type A)	2121404	1
Caelo	Avocado oil, refined	21221530006	1
Caelo	Wheatgerm oil, refined	213E-02784	1
Caelo	Almond oil, refined	22000751003	1
Caelo	Evening primrose oil, refined	22001284005	1
Caelo	Peanut oil, refined	22001375002	1
Caelo	Sesame oil, refined	22001920003	2
Caelo	Evening primrose oil, refined	220401N	1
Caelo	Almond oil, refined	2204130	1
Caelo	Olive oil, native	22042001	1
Caelo	Almond oil, refined	220515PML01	1
Caelo	Almond oil, refined	22071303	1
Caelo	Almond oil, refined	22081205	1
Caelo	Peanut oil, refined	22091807	1
Caelo	Peanut oil, refined	22092003	1
Caelo	Almond oil, refined	22111301	1
Caelo	Flaxseed oil, native	23021302	1
Caelo	Oleyl oleate (stabilised)	23021714	1
Caelo	Almond oil, refined	230315HML01	1
Caelo	Olive oil, native	23041802	1
Caelo	Peanut oil, refined	23051406	1
Caelo	Jojoba Oil, native	23051804	1
Caelo	Evening primrose oil, refined	23051821	1
Caelo	Olive oil, native	23101704	1
Caelo	Olive oil, native	23121413	1
Caelo	Codliver oil (type A)	23121414	1
Caelo	Olive oil, native	24011303	1
Caelo	Olive oil, native	24011408	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Olive oil, native	24031502	1
Caelo	Almond oil, refined	2405211950	1
Caelo	Evening primrose oil, refined	24061711	1
Caelo	Peanut oil, refined	24081208	1
Caelo	Olive oil, native	24081507	1
Caelo	Walnut oil, refined	24101309	1
Caelo	Evening primrose oil, refined	2416A-03075	1
Caelo	Borage oil, refined, stabili…	2492	1
Caelo	Olive oil, native	25021404	1
Caelo	Almond oil, refined	25021707	1
Caelo	Olive oil, native	25021708	1
Caelo	Almond oil, refined	25041303	1
Caelo	Sesame oil, refined	25051305	1
Caelo	Oleyl oleate (stabilised)	25062015A	1
Caelo	Codliver oil (type A)	25091210	1
Caelo	Peanut oil, refined	25091405	1
Caelo	Jojoba Oil, native	25101303	1
Caelo	Avocado oil, refined	2515I-01960	1
Caelo	Avocado oil, refined	2517M-01960	1
Caelo	Shea butter, refined	26021901	1
Caelo	Borage oil, refined, stabili…	26041404	1
Caelo	Codliver oil (type A)	26061202	1
Caelo	Peanut oil, refined	26061203	1
Caelo	Oleyl oleate (stabilised)	26071210	1
Caelo	Olive oil, native	26071403	1
Caelo	Olive oil, native	26081709	1
Caelo	Olive oil, native	26091403	1
Caelo	Jojoba Oil, native	2613M-01986	1
Caelo	Jojoba Oil, native	2614A-01986	1
Caelo	Flaxseed oil, native	263894	1
Caelo	Olive oil, native	265359	1
Caelo	Olive oil, native	27061703	1
Caelo	Almond oil, refined	2713U1950	1
Caelo	Peanut oil, refined	2742	1
Caelo	Olive oil, native	2792	1
Caelo	Olive oil, native	279609	1
Caelo	Peanut oil, refined	28021406	1
Caelo	Peanut oil, refined	28031304	1
Caelo	Codliver oil (type A)	28041507	1
Caelo	Sesame oil, refined	28041709	1
Caelo	Almond oil, refined	28041732	1
Caelo	Olive oil, native	28051405	1
Caelo	Codliver oil (type A)	28071504	1
Caelo	Avocado oil, refined	28111308	1
Caelo	Olive oil, native	28111704	1
Caelo	Almond oil, refined	28111705	1
Caelo	Oleyl oleate (stabilised)	28111710	1
Caelo	Jojoba Oil, native	28111810	1
Caelo	Decyl oleate	2812	1
Caelo	Olive oil, native	28121202	1
Caelo	Peanut oil, refined	2813	1
Caelo	Almond oil, refined	284968	1
Caelo	Olive oil, native	288752	2
Caelo	Olive oil, native	289095	1
Caelo	Olive oil, native	290403	2
Caelo	Olive oil, native	29041301	1
Caelo	Almond oil, refined	29081404	1
Caelo	Sesame oil, refined	29088	1
Caelo	Olive oil, native	29091802	1
Caelo	Olive oil, native	290924	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Olive oil, native	2915A-02000	1
Caelo	Olive oil, native	292369	2
Caelo	Wheatgerm oil, refined	292513	1
Caelo	Olive oil, native	294034	1
Caelo	Olive oil, native	295282	3
Caelo	Olive oil, native	295283	2
Caelo	Olive oil, native	297227	1
Caelo	Olive oil, native	297564	1
Caelo	Olive oil, native	297565	1
Caelo	Olive oil, native	298008	2
Caelo	Safflower oil, refined type I	299143	1
Caelo	Flaxseed oil, native	299565	1
Caelo	Olive oil, native	300117/A	1
Caelo	Avocado oil, refined	30011904	1
Caelo	Olive oil, native	300220	1
Caelo	Evening primrose oil, refined	30031501	1
Caelo	Avocado oil, refined	300403	1
Caelo	Codliver oil (type A)	30041302	1
Caelo	Sesame oil, refined	30051201	1
Caelo	Olive oil, native	30071305	1
Caelo	Flaxseed oil, native	300983	1
Caelo	Peanut oil, refined	301000	1
Caelo	Peanut oil, refined	30101312	1
Caelo	Olive oil, native	301100	2
Caelo	Almond oil, refined	30111803	1
Caelo	Peanut oil, refined	30121415	1
Caelo	Almond oil, refined	30121416	1
Caelo	Peanut oil, refined	302017	2
Caelo	Codliver oil (type A)	3021402	1
Caelo	Flaxseed oil, native	302269	1
Caelo	Olive oil, native	302523	1
Caelo	Olive oil, native	304113	1
Caelo	Olive oil, native	305003	3
Caelo	Evening primrose oil, refined	3051806	1
Caelo	Olive oil, native	3051807	1
Caelo	Peanut oil, refined	305319	2
Caelo	Safflower oil, refined type I	305902	1
Caelo	Peanut oil, refined	3061303	1
Caelo	Almond oil, refined	306292	1
Caelo	Olive oil, native	306949	1
Caelo	Olive oil, native	306950	5
Caelo	Olive oil, native	307103	3
Caelo	Flaxseed oil, native	307119	1
Caelo	Jojoba Oil, native	3071301	1
Caelo	Olive oil, native	3071302	1
Caelo	Olive oil, native	3071714	1
Caelo	Avocado oil, refined	3071802	1
Caelo	Olive oil, native	308229	1
Caelo	Olive oil, native	308230	10
Caelo	Flaxseed oil, native	310225	1
Caelo	Almond oil, refined	31031403	1
Caelo	Olive oil, native	31081206	1
Caelo	Olive oil, native	310866	3
Caelo	Olive oil, native	310868	2
Caelo	Codliver oil (type A)	3111804	1
Caelo	Almond oil, refined	31121205	1
Caelo	Peanut oil, refined	3112M-01954	1
Caelo	Evening primrose oil, refined	3112M-03075	1
Caelo	Codliver oil (type A)	3121201	1
Caelo	Olive oil, native	318A-02000	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Olive oil, native	3212I-02000	1
Caelo	Almond oil, refined	3236406	1
Caelo	Avocado oil, refined	3250	1
Caelo	Almond oil, refined	3278	1
Caelo	Olive oil, native	3313I-02000	1
Caelo	Peanut oil, refined	3318	1
Caelo	Olive oil, native	3319	1
Caelo	Evening primrose oil, refined	3385897	3
Caelo	Evening primrose oil, refined	3385905	1
Caelo	Avocado oil, refined	3413M-01960	2
Caelo	Olive oil, native	3418a-02000	1
Caelo	Peanut oil, refined	3444	1
Caelo	Olive oil, native	3445	1
Caelo	Avocado oil, refined	35(18007501)	1
Caelo	Avocado oil, refined	3518M-01960	1
Caelo	Avocado oil, refined	36(18044901)	1
Caelo	Peanut oil, refined	3614M-01954	1
Caelo	Almond oil, refined	3714U-01950	1
Caelo	Peanut oil, refined	3813E1954	1
Caelo	Evening primrose oil, refined	3878-124466	1
Caelo	Olive oil, native	3916I-02000	1
Caelo	Almond oil, refined	4017A-01950	1
Caelo	Almond oil, refined	40315PML01	1
Caelo	Olive oil, native	4041303	1
Caelo	Walnut oil, refined	4051702	1
Caelo	Almond oil, refined	4061202	1
Caelo	Evening primrose oil, refined	4061305	1
Caelo	Codliver oil (type A)	4061403	1
Caelo	Olive oil, native	406212000	1
Caelo	Olive oil, native	4101312	1
Caelo	Oleyl oleate (stabilised)	4170717	1
Caelo	Avocado oil, refined	4216Q-01960	1
Caelo	Almond oil, refined	4313E1950	1
Caelo	Evening primrose oil, refined	458528	1
Caelo	Olive oil, native	4616U-02000	1
Caelo	Peanut oil, refined	4617M-01954	1
Caelo	Almond oil, refined	465957	1
Caelo	Peanut oil, refined	466158	1
Caelo	Olive oil, native	46646018208101	1
Caelo	Avocado oil, refined	4718201	2
Caelo	Almond oil, refined	4916A-01950	1
Caelo	Wheatgerm oil, refined	5011502	1
Caelo	Olive oil, native	5011503	1
Caelo	Evening primrose oil, refined	5011508	1
Caelo	Borage oil, refined, stabili…	5012A-02881	1
Caelo	Olive oil, native	503312000	1
Caelo	Codliver oil (type A)	5061202	1
Caelo	Evening primrose oil, refined	5061505	1
Caelo	Codliver oil (type A)	5081402	1
Caelo	Codliver oil (type A)	5091309	1
Caelo	Almond oil, refined	5111208	1
Caelo	Sesame oil, refined	5117I-02016	1
Caelo	Avocado oil, refined	5121805	1
Caelo	Oleyl oleate (stabilised)	5121808	1
Caelo	Almond oil, refined	514Q1950	1
Caelo	Evening primrose oil, refined	51929821	1
Caelo	Peanut oil, refined	5204402	1
Caelo	Almond oil, refined	5214206	3
Caelo	Avocado oil, refined	5216901	1
Caelo	Olive oil, native	5218Q-02000	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Codliver oil (type A)	5228001	2
Caelo	Olive oil, native	5271504	2
Caelo	Olive oil, native	5272401	4
Caelo	Peanut oil, refined	5314601	1
Caelo	Sesame oil, refined	5319201	2
Caelo	Almond oil, refined	5415901	6
Caelo	Codliver oil (type A)	5437202	9
Caelo	Almond oil, refined	5438301	4
Caelo	Almond oil, refined	5438302	3
Caelo	Olive oil, native	5464901	2
Caelo	Olive oil, native	5470202	1
Caelo	Codliver oil (type A)	5529601	11
Caelo	Peanut oil, refined	5592601	3
Caelo	Borage oil, refined, stabili...	5594400002	2
Caelo	Almond oil, refined	5615001	6
Caelo	Almond oil, refined	5615003	1
Caelo	Olive oil, native	5623601	1
Caelo	Codliver oil (type A)	5641901	2
Caelo	Almond oil, refined	5669601	3
Caelo	Codliver oil (type A)	5693101	2
Caelo	Almond oil, refined	5703001	4
Caelo	Olive oil, native	5734701	1
Caelo	Sesame oil, refined	5744101	1
Caelo	Almond oil, refined	5748601	7
Caelo	Evening primrose oil, refined	586061428	1
Caelo	Codliver oil (type A)	5878701	4
Caelo	Olive oil, native	5891202	1
Caelo	Olive oil, native	6/AKD15	1
Caelo	Olive oil, native	60081503	4
Caelo	Codliver oil (type A)	6021302	1
Caelo	Almond oil, refined	6031506	1
Caelo	Peanut oil, refined	6061202	1
Caelo	Sesame oil, refined	6071715	1
Caelo	Almond oil, refined	6081202	1
Caelo	Olive oil, native	6101706	1
Caelo	Almond oil, refined	6101708	1
Caelo	Jojoba Oil, native	6101802	1
Caelo	Olive oil, native	6111208	1
Caelo	Evening primrose oil, refined	6121707	1
Caelo	Wheatgerm oil, refined	6121709	1
Caelo	Wheatgerm oil, refined	6137403	1
Caelo	Borage oil, refined, stabili...	6170717	1
Caelo	Wheatgerm oil, refined	618E-02784	1
Caelo	Evening primrose oil, refined	7011502	1
Caelo	Peanut oil, refined	7031307	1
Caelo	Olive oil, native	7031501	1
Caelo	Olive oil, native	7051507	1
Caelo	Olive oil, native	7071206	1
Caelo	Sesame oil, refined	7071804	1
Caelo	Almond oil, refined	7091206	1
Caelo	Olive oil, native	7091703	1
Caelo	Almond oil, refined	71/AKD15	1
Caelo	Flaxseed oil, native	7111204	1
Caelo	Olive oil, native	713I-02000	1
Caelo	Evening primrose oil, refined	7170717	1
Caelo	Almond oil, refined	7176502	1
Caelo	Almond oil, refined	72/AKD16	1
Caelo	Borage oil, refined, stabili...	722915305009	1
Caelo	Evening primrose oil, refined	7255801	1
Caelo	Almond oil, refined	74176327302	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Codliver oil (type A)	80000601001	1
Caelo	Almond oil, refined	80000915001	1
Caelo	Codliver oil (type A)	8000601001	1
Caelo	Peanut oil, refined	8000666005	1
Caelo	Olive oil, native	800067001	1
Caelo	Almond oil, refined	8000712001	2
Caelo	Almond oil, refined	8000915001	5
Caelo	Almond oil, refined	8000915002	10
Caelo	Codliver oil (type A)	8000918001	6
Caelo	Codliver oil (type A)	8001176004	5
Caelo	Codliver oil (type A)	8001215002	10
Caelo	Almond oil, refined	800149001	1
Caelo	Almond oil, refined	8001497001	3
Caelo	Olive oil, native	8001560001	1
Caelo	Codliver oil (type A)	8001765001	2
Caelo	Olive oil, native	8001854001	2
Caelo	Codliver oil (type A)	80023380002	1
Caelo	Codliver oil (type A)	8002338002	3
Caelo	Olive oil, native	800236001	1
Caelo	Olive oil, native	8002366001	1
Caelo	Almond oil, refined	8002653001	11
Caelo	Olive oil, native	8002656001	1
Caelo	Almond oil, refined	8002675001	7
Caelo	Olive oil, native	8002827001	1
Caelo	Olive oil, native	8002868001	1
Caelo	Sesame oil, refined	8002939002	1
Caelo	Almond oil, refined	8003167001	3
Caelo	Olive oil, native	8003420001	1
Caelo	Codliver oil (type A)	8003468002	1
Caelo	Almond oil, refined	8003503001	1
Caelo	Almond oil, refined	8003503002	4
Caelo	Olive oil, native	8003580002	1
Caelo	Codliver oil (type A)	8003727001	9
Caelo	Olive oil, native	8003801001	2
Caelo	Almond oil, refined	8003885002	4
Caelo	Codliver oil (type A)	8003906001	8
Caelo	Codliver oil (type A)	8003906002	1
Caelo	Almond oil, refined	8004039003	6
Caelo	Olive oil, native	8004067001	2
Caelo	Olive oil, native	8004194001	1
Caelo	Almond oil, refined	8004390001	6
Caelo	Almond oil, refined	800439001	1
Caelo	Olive oil, native	800449001	1
Caelo	Olive oil, native	8004499001	1
Caelo	Almond oil, refined	8004548002	14
Caelo	Almond oil, refined	8004548011	3
Caelo	Codliver oil (type A)	8004742002	2
Caelo	Almond oil, refined	8005803006	1
Caelo	Almond oil, refined	8005936002	6
Caelo	Almond oil, refined	8007584002	1
Caelo	Almond oil, refined	802675001	1
Caelo	Almond oil, refined	8041501	1
Caelo	Olive oil, native	8041709	1
Caelo	Codliver oil (type A)	8042014/A	1
Caelo	Shea butter, refined	8052001	1
Caelo	Peanut oil, refined	8061303	1
Caelo	Olive oil, native	8061712	1
Caelo	Codliver oil (type A)	8071504	1
Caelo	Olive oil, native	8121404	1
Caelo	Codliver oil (type A)	8131-01985	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Avocado oil, refined	8306803	1
Caelo	Olive oil, native	9031707	1
Caelo	Olive oil, native	90417099	1
Caelo	Olive oil, native	9061810	1
Caelo	Almond oil, refined	9061813	1
Caelo	Flaxseed oil, native	9062015A	1
Caelo	Peanut oil, refined	9091303	1
Caelo	Peanut oil, refined	9101201	1
Caelo	Almond oil, refined	914E1950	1
Caelo	Almond oil, refined	91871071	1
Caelo	Peanut oil, refined	920Q-01954	1
Caelo	Avocado oil, refined	973117038802	1
Caelo	Avocado oil, refined	973418044902	1
Caelo	Evening primrose oil, refined	AP094-115N	1
Caelo	Evening primrose oil, refined	AP141023N	1
Caelo	Evening primrose oil, refined	AP144330N	1
Caelo	Olive oil, native	AP201019-04/20001410003	1
Caelo	Evening primrose oil, refined	AP788-128N	3
Caelo	Olive oil, native	CE834/ES	1
Caelo	Almond oil, refined	CH-B18015002	1
Caelo	Peanut oil, refined	CHB192485006	1
Caelo	Evening primrose oil, refined	EP7137111	1
Caelo	Evening primrose oil, refined	EP713711-1	3
Caelo	Evening primrose oil, refined	EP8482111	1
Caelo	Grape seed oil, refined	N0000004667	1
Caelo	Grape seed oil, refined	N0000006050	1
Caelo	Almond oil, refined	O-240513-1	1
Caelo	Olive oil, native	p070106118	1
Caelo	Peanut oil, refined	T12-0858009	1
Caelo	Wheatgerm oil, refined	W-240513-2	1
Caelo	Borage oil, refined, stabili…	ZR1094B	1
Caeol / Gehe	Olive oil, native	15311401	1
Caeol/Noweda	Wheatgerm oil, refined	18009505	1
Caeol/Phönix	Evening primrose oil, refined	13121814	1
Caeol/Phönix	Olive oil, native	17361101	1
Caeolo/Ahd	Olive oil, native	18208106	1
Caeolo/Gehe	Almond oil, refined	18006807	1
Caeolo/Krieger	Olive oil, native	17121606	1
Caeolo/Noweda	Almond oil, refined	15409703	1
Caeolo/Phoenix	Almond oil, refined	8004548002	5
Caeolo/Phönix	Olive oil, native	15311401	2
Caeolo/Phönix	Olive oil, native	15311402	1
Caeöo	Wheatgerm oil, refined	13261601	1
Caeöo	Jojoba Oil, native	13287702	1
Caerlo/Noweda	Avocado oil, refined	20001638004	1
Caesa / Alliance Health…	Evening primrose oil, refined	21000915002	2
Caesaer/Jenne	Peanut oil, refined	18208202	1
Caesar & Lorenz GmbH	Grape seed oil, refined	18224210	1
Caesar & Lorenz GmbH	Almond oil, refined	19187101	1
Caesar & Lorenz GmbH	Grape seed oil, refined	19241204	1
Caesar & Lorenz GmbH	Olive oil, native	21000836002	1
Caesar & Lorenz	Grape seed oil, refined	13065310	1
Caesar & Loretz GmbH / …	Almond oil, refined	19084505	1
Caesar & Loretz GmbH / …	Peanut oil, refined	17169018	1
Caesar & Loretz GmbH / …	Almond oil, refined	18184108	1
Caesar & Loretz GmbH / …	Peanut oil, refined	18208202	1
Caesar & Loretz GmbH / …	Olive oil, native	19000452002	2
Caesar & Loretz GmbH / …	Corn oil, refined	19112904	1
Caesar & Loretz GmbH / …	Evening primrose oil, refined	192982001	1
Caesar & Loretz GmbH / …	Borage oil, refined, stabili…	15063412	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH / ...	Oleyl oleate (stabilised)	18272002	1
Caesar & Loretz GmbH / ...	Avocado oil, refined	18306808	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	19164402	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	192982001	2
Caesar & Loretz GmbH / ...	Almond oil, refined	21001240006	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	16281301	1
Caesar & Loretz GmbH / ...	Codliver oil (type A)	17137805	1
Caesar & Loretz GmbH / ...	Almond oil, refined	17207906	2
Caesar & Loretz GmbH / ...	Borage oil, refined, stabili...	17307801	1
Caesar & Loretz GmbH / ...	Almond oil, refined	18184113	1
Caesar & Loretz GmbH / ...	Grape seed oil, refined	18224202	1
Caesar & Loretz GmbH / ...	Almond oil, refined	18295903	4
Caesar & Loretz GmbH / ...	Peanut oil, refined	192485006	1
Caesar & Loretz GmbH / ...	Almond oil, refined	18295915	1
Caesar & Loretz GmbH / ...	Almond oil, refined	20001624007	1
Caesar & Loretz GmbH / ...	Oleyl oleate (stabilised)	20002648002	1
Caesar & Loretz GmbH / ...	Avocado oil, refined	21002884003	1
Caesar & Loretz GmbH / ...	Olive oil, native	19001848	1
Caesar & Loretz GmbH / ...	Almond oil, refined	18184107	1
Caesar & Loretz GmbH / ...	Peanut oil, refined	18296009	1
Caesar & Loretz GmbH / ...	Almond oil, refined	19000779001	1
Caesar & Loretz GmbH / ...	Almond oil, refined	19187101	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	192982001	1
Caesar & Loretz GmbH / ...	Peanut oil, refined	20001473008	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	1803006-02	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	18216211	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	18216217	3
Caesar & Loretz GmbH / ...	Peanut oil, refined	18296001	1
Caesar & Loretz GmbH / ...	Peanut oil, refined	18296009	1
Caesar & Loretz GmbH / ...	Olive oil, native	18311910	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	19175401	3
Caesar & Loretz GmbH / ...	Olive oil, native	19212005	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	192982004	1
Caesar & Loretz GmbH / ...	Evening primrose oil, refined	192982006	1
Caesar & Loretz GmbH /F...	Oleyl oleate (stabilised)	18272005	1
Caesar & Loretz GmbH /G...	Evening primrose oil, refined	20001052001	1
Caesar & Loretz GmbH 40...	Evening primrose oil, refined	11150007	1
Caesar & Loretz GmbH Fi...	Evening primrose oil, refined	20001052004	1
Caesar & Loretz GmbH Hi...	Olive oil, native	13350102	1
Caesar & Loretz GmbH Hi...	Avocado oil, refined	13361414	1
Caesar & Loretz GmbH Hi...	Peanut oil, refined	14115404	1
Caesar & Loretz GmbH Hi...	Olive oil, native	14182302	1
Caesar & Loretz GmbH Hi...	Olive oil, native	15216309	1
Caesar & Loretz GmbH Hi...	Olive oil, native	15311404	1
Caesar & Loretz GmbH Hi...	Peanut oil, refined	15331502	1
Caesar & Loretz GmbH Hi...	Olive oil, native	16212801	1
Caesar & Loretz GmbH Hi...	Olive oil, native	16212806	1
Caesar & Loretz GmbH Hi...	Flaxseed oil, native	289164	1
Caesar & Loretz GmbH Hi...	Almond oil, refined	510014-01	1
Caesar & Loretz GmbH Kr...	Olive oil, native	21004008002	3
Caesar & Loretz GmbH No...	Olive oil, native	18208110	1
Caesar & Loretz GmbH Sa...	Almond oil, refined	20001624012	2
Caesar & Loretz GmbH, 4...	Evening primrose oil, refined	12032913	1
Caesar & Loretz GmbH, 4...	Evening primrose oil, refined	12112911	1
Caesar & Loretz GmbH, 4...	Olive oil, native	12141306	1
Caesar & Loretz GmbH, 4...	Evening primrose oil, refined	12325101	1
Caesar & Loretz GmbH, 4...	Evening primrose oil, refined	12325106	1
Caesar & Loretz GmbH, 4...	Evening primrose oil, refined	12325113	1
Caesar & Loretz GmbH, A...	Flaxseed oil, native	20004433003	1
Caesar & Loretz GmbH, P...	Peanut oil, refined	17328601	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH, P…	Olive oil, native	17361106	2
Caesar & Loretz GmbH,20…	Olive oil, native	17121602	2
Caesar & Loretz GmbH/ AHD	Borage oil, refined, stabili…	18295812	1
Caesar & Loretz GmbH/ AHD	Laurel oil	19000520004	1
Caesar & Loretz GmbH/ A…	Almond oil, refined	19000779001	1
Caesar & Loretz GmbH/ A…	Borage oil, refined, stabili…	20004100002	1
Caesar & Loretz GmbH/ A…	Oleyl oleate (stabilised)	21000767005	1
Caesar & Loretz GmbH/ A…	Olive oil, native	21002271002	1
Caesar & Loretz GmbH/ A…	Almond oil, refined	21002363006	1
Caesar & Loretz GmbH/ A…	Almond oil, refined	21003729006	1
Caesar & Loretz GmbH/ A…	Evening primrose oil, refined	19164402	1
Caesar & Loretz GmbH/ F…	Evening primrose oil, refined	18216202	1
Caesar & Loretz GmbH/ F…	Peanut oil, refined	18296009	1
Caesar & Loretz GmbH/ F…	Olive oil, native	20001410003	1
Caesar & Loretz GmbH/ G…	Olive oil, native	18208101	1
Caesar & Loretz GmbH/ G…	Almond oil, refined	19000779001	1
Caesar & Loretz GmbH/ G…	Almond oil, refined	19000779006	1
Caesar & Loretz GmbH/ G…	Evening primrose oil, refined	19164407	1
Caesar & Loretz GmbH/ G…	Borage oil, refined, stabili…	19249204	1
Caesar & Loretz GmbH/ G…	Evening primrose oil, refined	192982001	1
Caesar & Loretz GmbH/ G…	Almond oil, refined	20001624007	1
Caesar & Loretz GmbH/ G…	Almond oil, refined	20003418004	1
Caesar & Loretz GmbH/ G…	Almond oil, refined	21001240006	2
Caesar & Loretz GmbH/ J…	Almond oil, refined	20003418004	1
Caesar & Loretz GmbH/ J…	Evening primrose oil, refined	21003319003	3
Caesar & Loretz GmbH/ K…	Oleyl oleate (stabilised)	18272016	1
Caesar & Loretz GmbH/ K…	Peanut oil, refined	18296002	1
Caesar & Loretz GmbH/ K…	Soy oil, refined	18319909	5
Caesar & Loretz GmbH/ N…	Peanut oil, refined	19059205	1
Caesar & Loretz GmbH/ P…	Soy oil, refined	183199909	1
Caesar & Loretz GmbH/ P…	Grape seed oil, refined	18224210	1
Caesar & Loretz GmbH/ P…	Olive oil, native	19076104	1
Caesar & Loretz GmbH/ P…	Peanut oil, refined	20001473008	1
Caesar & Loretz GmbH/ P…	Almond oil, refined	20001624002	1
Caesar & Loretz GmbH/ P…	Olive oil, native	20003049004	1
Caesar & Loretz GmbH/ P…	Almond oil, refined	20003418002	1
Caesar & Loretz GmbH/ P…	Peanut oil, refined	20003610006	1
Caesar & Loretz GmbH/ P…	Almond oil, refined	21002363009	1
Caesar & Loretz GmbH/ S…	Olive oil, native	20001410002	1
Caesar & Loretz GmbH/ S…	Codliver oil (type A)	20004069003	1
Caesar & Loretz GmbH/	Jojoba Oil, native	20000722008	1
Caesar & Loretz GmbH/AEP	Peanut oil, refined	192485011	1
Caesar & Loretz GmbH/AEP	Almond oil, refined	20001624003	1
Caesar & Loretz GmbH/AEP	Almond oil, refined	21002363009	1
Caesar & Loretz GmbH/AHD	Borage oil, refined, stabili…	18295807	1
Caesar & Loretz GmbH/AHD	Borage oil, refined, stabili…	18295808	1
Caesar & Loretz GmbH/AHD	Avocado oil, refined	18306809	1
Caesar & Loretz GmbH/AHD	Olive oil, native	19076110	1
Caesar & Loretz GmbH/AHD	Almond oil, refined	19084505	1
Caesar & Loretz GmbH/AHD	Olive oil, native	19212005	1
Caesar & Loretz GmbH/AHD	Borage oil, refined, stabili…	20000791003	1
Caesar & Loretz GmbH/AHD	Olive oil, native	20001410003	1
Caesar & Loretz GmbH/all	Peanut oil, refined	20001473008	1
Caesar & Loretz GmbH/Al…	Jojoba Oil, native	19152901	1
Caesar & Loretz GmbH/Al…	Evening primrose oil, refined	20004047009	1
Caesar & Loretz GmbH/Al…	Almond oil, refined	21001240006	1
Caesar & Loretz GmbH/Al…	Peanut oil, refined	21002810009	1
Caesar & Loretz GmbH/Al…	Evening primrose oil, refined	22001284005	1
Caesar & Loretz GmbH/An…	Olive oil, native	19000452003	1
Caesar & Loretz GmbH/An…	Almond oil, refined	19000779001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Fi…	Olive oil, native	18208106	1
Caesar & Loretz GmbH/Fi…	Almond oil, refined	19000779004	1
Caesar & Loretz GmbH/Fi…	Evening primrose oil, refined	19164401	1
Caesar & Loretz GmbH/Fi…	Flaxseed oil, native	19164501	1
Caesar & Loretz GmbH/Fi…	Evening primrose oil, refined	192982003	1
Caesar & Loretz GmbH/Fi…	Evening primrose oil, refined	192982012	2
Caesar & Loretz GmbH/Fi…	Oleyl oleate (stabilised)	20002648002	1
Caesar & Loretz GmbH/Fi…	Almond oil, refined	20003418004	1
Caesar & Loretz GmbH/Fi…	Almond oil, refined	20003418006	1
Caesar & Loretz GmbH/Fi…	Evening primrose oil, refined	20004047006	2
Caesar & Loretz GmbH/Fi…	Evening primrose oil, refined	20004047011	1
Caesar & Loretz GmbH/Fi…	Olive oil, native	21000836006	1
Caesar & Loretz GmbH/Fi…	Olive oil, native	21002271002	1
Caesar & Loretz GmbH/G	Almond oil, refined	18184113	1
Caesar & Loretz GmbH/Gehe	Peanut oil, refined	1000012961	1
Caesar & Loretz GmbH/Gehe	Borage oil, refined, stabili…	18295804	1
Caesar & Loretz GmbH/Gehe	Borage oil, refined, stabili…	18295808	2
Caesar & Loretz GmbH/GEHE	Borage oil, refined, stabili…	18295815	1
Caesar & Loretz GmbH/Gehe	Avocado oil, refined	18306811	1
Caesar & Loretz GmbH/Gehe	Grape seed oil, refined	18315904	1
Caesar & Loretz GmbH/Gehe	Olive oil, native	19000452002	1
Caesar & Loretz GmbH/Gehe	Avocado oil, refined	19000459003	1
Caesar & Loretz GmbH/Gehe	Avocado oil, refined	19000459011	1
Caesar & Loretz GmbH/Gehe	Laurel oil	19000520002	1
Caesar & Loretz GmbH/Gehe	Almond oil, refined	19000779001	4
Caesar & Loretz GmbH/Gehe	Almond oil, refined	19000779006	1
Caesar & Loretz GmbH/Gehe	Almond oil, refined	19084505	1
Caesar & Loretz GmbH/Gehe	Jojoba Oil, native	191529004	1
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	19164401	4
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	19164407	2
Caesar & Loretz GmbH/Gehe	Peanut oil, refined	192485011	1
Caesar & Loretz GmbH/Gehe	Borage oil, refined, stabili…	192492003	1
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	192982002	1
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	192982004	3
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	20001052002	1
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	20001052003	1
Caesar & Loretz GmbH/GEHE	Olive oil, native	20001410001	3
Caesar & Loretz GmbH/Gehe	Olive oil, native	20001410004	1
Caesar & Loretz GmbH/Gehe	Peanut oil, refined	20001473008	1
Caesar & Loretz GmbH/Gehe	Almond oil, refined	20001624003	1
Caesar & Loretz GmbH/Gehe	Avocado oil, refined	20001638003	1
Caesar & Loretz GmbH/GEHE	Avocado oil, refined	20001638007	1
Caesar & Loretz GmbH/Gehe	Almond oil, refined	20002892001	1
Caesar & Loretz GmbH/Gehe	Borage oil, refined, stabili…	20003248002	2
Caesar & Loretz GmbH/Gehe	Peanut oil, refined	20003610006	3
Caesar & Loretz GmbH/Gehe	Peanut oil, refined	20003610014	2
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	20004047008	2
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	20004047010	1
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	21000915005	1
Caesar & Loretz GmbH/Gehe	Evening primrose oil, refined	21000915006	1
Caesar & Loretz GmbH/GEHE	Peanut oil, refined	21001091003	1
Caesar & Loretz GmbH/Gehe	Avocado oil, refined	21001530003	1
Caesar & Loretz GmbH/GEHE	Almond oil, refined	21002363005	1
Caesar & Loretz GmbH/GEHE	Almond oil, refined	21002363006	2
Caesar & Loretz GmbH/Gehe	Almond oil, refined	21002363008	1
Caesar & Loretz GmbH/Gehe	Peanut oil, refined	21002810004	1
Caesar & Loretz GmbH/Gehe	Avocado oil, refined	21002884003	1
Caesar & Loretz GmbH/Gehe	Almond oil, refined	21003729006	1
Caesar & Loretz GmbH/Ge…	Almond oil, refined	19000779007	1
Caesar & Loretz GmbH/Gerx	Almond oil, refined	21001240006	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Go…	Olive oil, native	19212005	1
Caesar & Loretz GmbH/Gö…	Olive oil, native	19076104	2
Caesar & Loretz GmbH/Ho…	Olive oil, native	21002271002	1
Caesar & Loretz GmbH/Je…	Borage oil, refined, stabili…	18295817	1
Caesar & Loretz GmbH/Je…	Olive oil, native	19000452002	1
Caesar & Loretz GmbH/Je…	Olive oil, native	19000452003	1
Caesar & Loretz GmbH/Je…	Almond oil, refined	19000779004	2
Caesar & Loretz GmbH/Je…	Almond oil, refined	19000779006	1
Caesar & Loretz GmbH/Je…	Flaxseed oil, native	19099401	1
Caesar & Loretz GmbH/Je…	Evening primrose oil, refined	19164401	1
Caesar & Loretz GmbH/Je…	Shea butter, refined	19205802	1
Caesar & Loretz GmbH/Je…	Peanut oil, refined	192485006	1
Caesar & Loretz GmbH/Je…	Borage oil, refined, stabili…	192492005	1
Caesar & Loretz GmbH/Je…	Evening primrose oil, refined	192982001	1
Caesar & Loretz GmbH/Je…	Evening primrose oil, refined	2000102009	1
Caesar & Loretz GmbH/Je…	Olive oil, native	20001410001	1
Caesar & Loretz GmbH/Je…	Wheatgerm oil, refined	20001556007	1
Caesar & Loretz GmbH/Je…	Almond oil, refined	20001624007	2
Caesar & Loretz GmbH/Je…	Almond oil, refined	20003418002	1
Caesar & Loretz GmbH/Je…	Evening primrose oil, refined	20004047006	1
Caesar & Loretz GmbH/Je…	Evening primrose oil, refined	21000915002	1
Caesar & Loretz GmbH/Kehr	Wheatgerm oil, refined	19143201	1
Caesar & Loretz GmbH/Kehr	Wheatgerm oil, refined	20001556012	1
Caesar & Loretz GmbH/Kr…	Oleyl oleate (stabilised)	18272003	1
Caesar & Loretz GmbH/Kr…	Almond oil, refined	18295902	1
Caesar & Loretz GmbH/Kr…	Peanut oil, refined	19059205	1
Caesar & Loretz GmbH/Kr…	Peanut oil, refined	19059208	1
Caesar & Loretz GmbH/Kr…	Almond oil, refined	19084507	1
Caesar & Loretz GmbH/Kr…	Oleyl oleate (stabilised)	191191004	2
Caesar & Loretz GmbH/Kr…	Oleyl oleate (stabilised)	20000495006	1
Caesar & Loretz GmbH/Kr…	Soy oil, refined	20001575001	4
Caesar & Loretz GmbH/Kr…	Borage oil, refined, stabili…	20003248002	1
Caesar & Loretz GmbH/Kr…	Oleyl oleate (stabilised)	21000767002	1
Caesar & Loretz GmbH/Mi…	Olive oil, native	19076104	1
Caesar & Loretz GmbH/No…	Sesame oil, refined	17332106	1
Caesar & Loretz GmbH/No…	Almond oil, refined	18184107	1
Caesar & Loretz GmbH/No…	Almond oil, refined	18295902	1
Caesar & Loretz GmbH/No…	Almond oil, refined	18295909	1
Caesar & Loretz GmbH/No…	Peanut oil, refined	18296009	1
Caesar & Loretz GmbH/No…	Avocado oil, refined	18306812	2
Caesar & Loretz GmbH/No…	Almond oil, refined	19000779004	1
Caesar & Loretz GmbH/No…	Peanut oil, refined	19059208	1
Caesar & Loretz GmbH/No…	Almond oil, refined	19084511	2
Caesar & Loretz GmbH/No…	Almond oil, refined	19084518	2
Caesar & Loretz GmbH/No…	Evening primrose oil, refined	19164401	1
Caesar & Loretz GmbH/No…	Evening primrose oil, refined	19164402	1
Caesar & Loretz GmbH/No…	Almond oil, refined	19187102	1
Caesar & Loretz GmbH/No…	Almond oil, refined	19187106	1
Caesar & Loretz GmbH/No…	Olive oil, native	19212002	3
Caesar & Loretz GmbH/No…	Olive oil, native	19212005	1
Caesar & Loretz GmbH/No…	Peanut oil, refined	192485006	1
Caesar & Loretz GmbH/No…	Peanut oil, refined	192485011	2
Caesar & Loretz GmbH/no…	Evening primrose oil, refined	192982002	3
Caesar & Loretz GmbH/No…	Evening primrose oil, refined	192982002	1
Caesar & Loretz GmbH/No…	Evening primrose oil, refined	192982004	2
Caesar & Loretz GmbH/No…	Jojoba Oil, native	20000722008	1
Caesar & Loretz GmbH/No…	Evening primrose oil, refined	20001052003	3
Caesar & Loretz GmbH/No…	Peanut oil, refined	20001473004	5
Caesar & Loretz GmbH/No…	Soy oil, refined	20001575006	4
Caesar & Loretz GmbH/no…	Almond oil, refined	20002892001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/No…	Olive oil, native	20003049003	1
Caesar & Loretz GmbH/No…	Almond oil, refined	20003418007	1
Caesar & Loretz GmbH/No…	Peanut oil, refined	20003610014	1
Caesar & Loretz GmbH/No…	Grape seed oil, refined	21001936003	1
Caesar & Loretz GmbH/No…	Almond oil, refined	21002363005	1
Caesar & Loretz GmbH/No…	Almond oil, refined	8004548011	1
Caesar & Loretz GmbH/Pg…	Sesame oil, refined	192560003	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	20001624007	1
Caesar & Loretz GmbH/Ph…	Jojoba Oil, native	18057108	1
Caesar & Loretz GmbH/ph…	Peanut oil, refined	18208202	1
Caesar & Loretz GmbH/Ph…	Olive oil, native	19000452002	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	19000779006	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	19084518	2
Caesar & Loretz GmbH/Ph…	Evening primrose oil, refined	19175401	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	200003418007	1
Caesar & Loretz GmbH/Ph…	Jojoba Oil, native	20000722003	3
Caesar & Loretz GmbH/Ph…	Evening primrose oil, refined	20001052005	1
Caesar & Loretz GmbH/Ph…	Evening primrose oil, refined	20001052009	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	20001624004	2
Caesar & Loretz GmbH/Ph…	Almond oil, refined	20001624007	1
Caesar & Loretz GmbH/Ph…	Peanut oil, refined	20003610014	1
Caesar & Loretz GmbH/Ph…	Evening primrose oil, refined	20004047008	1
Caesar & Loretz GmbH/Ph…	Evening primrose oil, refined	20004047009	1
Caesar & Loretz GmbH/Ph…	Olive oil, native	21004008004	1
Caesar & Loretz GmbH/Ph…	Evening primrose oil, refined	19164401	2
Caesar & Loretz GmbH/Ph…	Peanut oil, refined	19059205	1
Caesar & Loretz GmbH/Ph…	Evening primrose oil, refined	18216211	1
Caesar & Loretz GmbH/Ph…	Jojoba Oil, native	18244715	1
Caesar & Loretz GmbH/Ph…	Borage oil, refined, stabili…	18295812	1
Caesar & Loretz GmbH/Ph…	Borage oil, refined, stabili…	18295815	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	18295901	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	18295908	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	19000779001	1
Caesar & Loretz GmbH/Ph…	Peanut oil, refined	19059214	1
Caesar & Loretz GmbH/Ph…	Olive oil, native	19076109	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	19187101	3
Caesar & Loretz GmbH/Ph…	Almond oil, refined	19187102	2
Caesar & Loretz GmbH/Ph…	Olive oil, native	19212002	1
Caesar & Loretz GmbH/Ph…	Borage oil, refined, stabili…	20000791003	2
Caesar & Loretz GmbH/Ph…	Codliver oil (type A)	20000831003	1
Caesar & Loretz GmbH/Ph…	Evening primrose oil, refined	20001052004	1
Caesar & Loretz GmbH/Ph…	Olive oil, native	20001410002	2
Caesar & Loretz GmbH/Ph…	Olive oil, native	20001410003	1
Caesar & Loretz GmbH/Ph…	Olive oil, native	20001410004	1
Caesar & Loretz GmbH/Ph…	Wheatgerm oil, refined	20001556007	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	20001624003	1
Caesar & Loretz GmbH/ph…	Avocado oil, refined	20001638003	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	20003418002	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	20003418007	1
Caesar & Loretz GmbH/Ph…	Peanut oil, refined	20003610014	2
Caesar & Loretz GmbH/Ph…	Olive oil, native	21000836006	1
Caesar & Loretz GmbH/Ph…	Olive oil, native	21002271002	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	21002363006	1
Caesar & Loretz GmbH/Ph…	Peanut oil, refined	21002810009	1
Caesar & Loretz GmbH/Ph…	Avocado oil, refined	21002884005	1
Caesar & Loretz GmbH/Ph…	Almond oil, refined	21003729002	1
Caesar & Loretz GmbH/Sana	Decyl oleate	20004076004	1
Caesar & Loretz GmbH/Sana	Wheatgerm oil, refined	21002983003	1
Caesar & Loretz GmbH/Sana	Almond oil, refined	21003729003	1
Caesar & Loretz GmbH/Sa…	Jojoba Oil, native	18244712	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Sa…	Almond oil, refined	18295902	1
Caesar & Loretz GmbH/Sa…	Avocado oil, refined	19000459008	1
Caesar & Loretz GmbH/Sa…	Almond oil, refined	19000779001	1
Caesar & Loretz GmbH/Sa…	Olive oil, native	19076109	2
Caesar & Loretz GmbH/Sa…	Olive oil, native	19076110	1
Caesar & Loretz GmbH/Sa…	Almond oil, refined	19084510	2
Caesar & Loretz GmbH/Sa…	Jojoba Oil, native	191529006	4
Caesar & Loretz GmbH/Sa…	Evening primrose oil, refined	19164402	1
Caesar & Loretz GmbH/Sa…	Flaxseed oil, native	19164501	1
Caesar & Loretz GmbH/Sa…	Evening primrose oil, refined	19175401	1
Caesar & Loretz GmbH/Sa…	Evening primrose oil, refined	192982003	1
Caesar & Loretz GmbH/Sa…	Evening primrose oil, refined	192982010	1
Caesar & Loretz GmbH/Sa…	Flaxseed oil, native	20000372003	1
Caesar & Loretz GmbH/sa…	Evening primrose oil, refined	20001052001	1
Caesar & Loretz GmbH/Sa…	Evening primrose oil, refined	20001052001	3
Caesar & Loretz GmbH/Sa…	Evening primrose oil, refined	20001052005	1
Caesar & Loretz GmbH/Sa…	Olive oil, native	20001410003	1
Caesar & Loretz GmbH/Sa…	Peanut oil, refined	20001473004	1
Caesar & Loretz GmbH/Sa…	Evening primrose oil, refined	20004047008	1
Caesar & Loretz GmbH/Sa…	Evening primrose oil, refined	20004047009	1
Caesar & Loretz GmbH/Sa…	Borage oil, refined, stabili…	21002207002	1
Caesar & Loretz GmbH/Sa…	Almond oil, refined	21003729003	1
Caesar & Loretz GmbH/sp…	Wheatgerm oil, refined	18241017	1
Caesar & Loretz GmbH	Almond oil, refined	1000010093	1
Caesar & Loretz GmbH	Olive oil, native	1000010861	2
Caesar & Loretz GmbH	Almond oil, refined	1000012126	1
Caesar & Loretz GmbH	Peanut oil, refined	1000012961	1
Caesar & Loretz GmbH	Peanut oil, refined	1000013880	1
Caesar & Loretz GmbH	Sesame oil, refined	1000013957	2
Caesar & Loretz GmbH	Evening primrose oil, refined	12325107	1
Caesar & Loretz GmbH	Avocado oil, refined	12H24-N02	1
Caesar & Loretz GmbH	Evening primrose oil, refined	13121812	1
Caesar & Loretz GmbH	Almond oil, refined	13178002	1
Caesar & Loretz GmbH	Almond oil, refined	13236404	1
Caesar & Loretz GmbH	Almond oil, refined	13350007	1
Caesar & Loretz GmbH	Olive oil, native	13350101	1
Caesar & Loretz GmbH	Peanut oil, refined	13358803	1
Caesar & Loretz GmbH	Evening primrose oil, refined	14010910	1
Caesar & Loretz GmbH	Peanut oil, refined	14115404	1
Caesar & Loretz GmbH	Almond oil, refined	14215804	1
Caesar & Loretz GmbH	Evening primrose oil, refined	14258611	1
Caesar & Loretz GmbH	Olive oil, native	14306904	1
Caesar & Loretz GmbH	Evening primrose oil, refined	15171104	1
Caesar & Loretz GmbH	Evening primrose oil, refined	15171109	1
Caesar & Loretz GmbH	Peanut oil, refined	15208506	1
Caesar & Loretz GmbH	Evening primrose oil, refined	15417801	1
Caesar & Loretz GmbH	Peanut oil, refined	16249502	1
Caesar & Loretz GmbH	Borage oil, refined, stabili…	16266011	1
Caesar & Loretz GmbH	Almond oil, refined	16327302	1
Caesar & Loretz GmbH	Almond oil, refined	16327308	1
Caesar & Loretz GmbH	Grape seed oil, refined	17206502	1
Caesar & Loretz GmbH	Borage oil, refined, stabili…	17307801	1
Caesar & Loretz GmbH	Sesame oil, refined	17332106	3
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	17358109	1
Caesar & Loretz GmbH	Olive oil, native	18003205	1
Caesar & Loretz GmbH	Evening primrose oil, refined	18009109	1
Caesar & Loretz GmbH	Almond oil, refined	18015007	2
Caesar & Loretz GmbH	Evening primrose oil, refined	180300602	1
Caesar & Loretz GmbH	Soy lecithin, liquid	1803030-01	1
Caesar & Loretz GmbH	Avocado oil, refined	18044908	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Avocado oil, refined	18044913	3
Caesar & Loretz GmbH	Jojoba Oil, native	18057107	3
Caesar & Loretz GmbH	Jojoba Oil, native	18057108	2
Caesar & Loretz GmbH	Grape seed oil, refined	18065207	1
Caesar & Loretz GmbH	Almond oil, refined	18070603	5
Caesar & Loretz GmbH	Almond oil, refined	18070608	2
Caesar & Loretz GmbH	Borage oil, refined, stabili...	18080501	1
Caesar & Loretz GmbH	Borage oil, refined, stabili...	18080509	5
Caesar & Loretz GmbH	Flaxseed oil, native	18120901	4
Caesar & Loretz GmbH	Flaxseed oil, native	18120904	1
Caesar & Loretz GmbH	Sunflower oil, refined	18121004	1
Caesar & Loretz GmbH	Almond oil, refined	18184113	2
Caesar & Loretz GmbH	Almond oil, refined	18184114	4
Caesar & Loretz GmbH	Olive oil, native	18208101	1
Caesar & Loretz GmbH	Olive oil, native	18208102	1
Caesar & Loretz GmbH	Olive oil, native	18208106	4
Caesar & Loretz GmbH	Olive oil, native	18208107	2
Caesar & Loretz GmbH	Olive oil, native	18208110	9
Caesar & Loretz GmbH	Peanut oil, refined	18208204	1
Caesar & Loretz GmbH	Peanut oil, refined	18208207	1
Caesar & Loretz GmbH	Decyl oleate	18214604	1
Caesar & Loretz GmbH	Evening primrose oil, refined	18216201	1
Caesar & Loretz GmbH	Evening primrose oil, refined	18216202	5
Caesar & Loretz GmbH	Evening primrose oil, refined	18216203	2
Caesar & Loretz GmbH	Evening primrose oil, refined	18216206	7
Caesar & Loretz GmbH	Evening primrose oil, refined	18216207	3
Caesar & Loretz GmbH	Evening primrose oil, refined	18216208	5
Caesar & Loretz GmbH	Evening primrose oil, refined	18216211	3
Caesar & Loretz GmbH	Evening primrose oil, refined	18216212	2
Caesar & Loretz GmbH	Evening primrose oil, refined	18216214	10
Caesar & Loretz GmbH	Evening primrose oil, refined	18216215	1
Caesar & Loretz GmbH	Evening primrose oil, refined	18216217	4
Caesar & Loretz GmbH	Evening primrose oil, refined	18216218	1
Caesar & Loretz GmbH	Evening primrose oil, refined	18216219	3
Caesar & Loretz GmbH	Shea butter, refined	18222304	2
Caesar & Loretz GmbH	Shea butter, refined	18222305	1
Caesar & Loretz GmbH	Shea butter, refined	18222308	1
Caesar & Loretz GmbH	Shea butter, refined	18222310	1
Caesar & Loretz GmbH	Grape seed oil, refined	18224202	1
Caesar & Loretz GmbH	Shea butter, refined	18236002	1
Caesar & Loretz GmbH	Wheatgerm oil, refined	18241002	3
Caesar & Loretz GmbH	Wheatgerm oil, refined	18241006	3
Caesar & Loretz GmbH	Wheatgerm oil, refined	18241007	1
Caesar & Loretz GmbH	Wheatgerm oil, refined	18241012	2
Caesar & Loretz GmbH	Jojoba Oil, native	18244707	6
Caesar & Loretz GmbH	Jojoba Oil, native	18244711	2
Caesar & Loretz GmbH	Jojoba Oil, native	18244713	2
Caesar & Loretz GmbH	Jojoba Oil, native	18244714	2
Caesar & Loretz GmbH	Jojoba Oil, native	18244715	1
Caesar & Loretz GmbH	Flaxseed oil, native	18252604	1
Caesar & Loretz GmbH	Flaxseed oil, native	18252605	1
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	18272002	2
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	18272005	2
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	18272007	1
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	18272011	1
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	18272015	7
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	18272016	1
Caesar & Loretz GmbH	Decyl oleate	18282506	4
Caesar & Loretz GmbH	Borage oil, refined, stabili...	18295804	3
Caesar & Loretz GmbH	Borage oil, refined, stabili...	18295808	12

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Borage oil, refined, stabili…	18295812	1
Caesar & Loretz GmbH	Borage oil, refined, stabili…	18295815	3
Caesar & Loretz GmbH	Almond oil, refined	18295901	6
Caesar & Loretz GmbH	Almond oil, refined	18295902	5
Caesar & Loretz GmbH	Almond oil, refined	18295903	9
Caesar & Loretz GmbH	Almond oil, refined	18295908	2
Caesar & Loretz GmbH	Almond oil, refined	18295909	3
Caesar & Loretz GmbH	Almond oil, refined	18295910	1
Caesar & Loretz GmbH	Almond oil, refined	18295914	8
Caesar & Loretz GmbH	Almond oil, refined	18295915	7
Caesar & Loretz GmbH	Peanut oil, refined	18296001	4
Caesar & Loretz GmbH	Peanut oil, refined	18296002	10
Caesar & Loretz GmbH	Peanut oil, refined	18296003	1
Caesar & Loretz GmbH	Peanut oil, refined	18296006	1
Caesar & Loretz GmbH	Peanut oil, refined	18296007	8
Caesar & Loretz GmbH	Peanut oil, refined	18296009	10
Caesar & Loretz GmbH	Avocado oil, refined	18306801	2
Caesar & Loretz GmbH	Avocado oil, refined	18306802	3
Caesar & Loretz GmbH	Avocado oil, refined	18306805	1
Caesar & Loretz GmbH	Avocado oil, refined	18306806	1
Caesar & Loretz GmbH	Avocado oil, refined	18306808	2
Caesar & Loretz GmbH	Avocado oil, refined	18306809	1
Caesar & Loretz GmbH	Avocado oil, refined	18306811	1
Caesar & Loretz GmbH	Avocado oil, refined	18306812	1
Caesar & Loretz GmbH	Olive oil, native	18311901	5
Caesar & Loretz GmbH	Olive oil, native	18311902	5
Caesar & Loretz GmbH	Olive oil, native	18311906	9
Caesar & Loretz GmbH	Olive oil, native	18311907	3
Caesar & Loretz GmbH	Olive oil, native	18311910	7
Caesar & Loretz GmbH	Grape seed oil, refined	18315909	1
Caesar & Loretz GmbH	Grape seed oil, refined	18315913	1
Caesar & Loretz GmbH	Soy oil, refined	18319901	3
Caesar & Loretz GmbH	Soy oil, refined	18319906	3
Caesar & Loretz GmbH	Soy oil, refined	18319909	1
Caesar & Loretz GmbH	Codliver oil (type A)	18323905	1
Caesar & Loretz GmbH	Codliver oil (type A)	18323907	1
Caesar & Loretz GmbH	Sesame oil, refined	18331301	6
Caesar & Loretz GmbH	Sesame oil, refined	18331305	1
Caesar & Loretz GmbH	Sesame oil, refined	18331308	6
Caesar & Loretz GmbH	Olive oil, native	19000452002	3
Caesar & Loretz GmbH	Olive oil, native	19000452003	12
Caesar & Loretz GmbH	Olive oil, native	19000452005	6
Caesar & Loretz GmbH	Avocado oil, refined	19000459003	2
CAESAR & LORETZ GMBH	Avocado oil, refined	19000459003	1
Caesar & Loretz GmbH	Avocado oil, refined	19000459005	1
Caesar & Loretz GmbH	Avocado oil, refined	19000459007	6
Caesar & Loretz GmbH	Avocado oil, refined	19000459008	2
Caesar & Loretz GmbH	Avocado oil, refined	19000459011	1
Caesar & Loretz GmbH	Avocado oil, refined	19000459012	4
Caesar & Loretz GmbH	Avocado oil, refined	1900045907	1
Caesar & Loretz GmbH	Codliver oil (type A)	19000632001	1
Caesar & Loretz GmbH	Codliver oil (type A)	19000632003	2
Caesar & Loretz GmbH	Codliver oil (type A)	19000632004	1
Caesar & Loretz GmbH	Almond oil, refined	19000779001	19
Caesar & Loretz GmbH	Almond oil, refined	19000779004	23
Caesar & Loretz GmbH	Almond oil, refined	19000779006	3
Caesar & Loretz GmbH	Almond oil, refined	19000779007	3
Caesar & Loretz GmbH	Olive oil, native	1900227	1
Caesar & Loretz GmbH	Olive oil, native	19002974	1
Caesar & Loretz GmbH	Avocado oil, refined	1900459003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Almond oil, refined	19005859	2
Caesar & Loretz GmbH	Evening primrose oil, refined	1901046-01	1
Caesar & Loretz GmbH	Peanut oil, refined	19059205	12
Caesar & Loretz GmbH	Peanut oil, refined	19059206	1
Caesar & Loretz GmbH	Peanut oil, refined	19059209	2
Caesar & Loretz GmbH	Peanut oil, refined	19059212	1
Caesar & Loretz GmbH	Peanut oil, refined	19059214	4
Caesar & Loretz GmbH	Olive oil, native	19076101	2
Caesar & Loretz GmbH	Olive oil, native	19076104	4
Caesar & Loretz GmbH	Olive oil, native	19076105	3
Caesar & Loretz GmbH	Olive oil, native	19076109	19
Caesar & Loretz GmbH	Olive oil, native	19076110	7
Caesar & Loretz GmbH	Almond oil, refined	19084503	5
Caesar & Loretz GmbH	Almond oil, refined	19084505	5
Caesar & Loretz GmbH	Almond oil, refined	19084506	1
Caesar & Loretz GmbH	Almond oil, refined	19084507	3
Caesar & Loretz GmbH	Almond oil, refined	19084510	6
Caesar & Loretz GmbH	Almond oil, refined	19084511	13
Caesar & Loretz GmbH	Almond oil, refined	19084518	3
Caesar & Loretz GmbH	Decyl oleate	190883001	1
Caesar & Loretz GmbH	Decyl oleate	19088301	2
Caesar & Loretz GmbH	Flaxseed oil, native	19099401	3
Caesar & Loretz GmbH	Flaxseed oil, native	19099403	1
Caesar & Loretz GmbH	Corn oil, refined	19112904	1
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	191191003	6
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	191191006	1
Caesar & Loretz GmbH	Wheatgerm oil, refined	191432002	1
Caesar & Loretz GmbH	Wheatgerm oil, refined	19143201	5
Caesar & Loretz GmbH	Wheatgerm oil, refined	19143202	3
Caesar & Loretz GmbH	Jojoba Oil, native	191529004	3
Caesar & Loretz GmbH	Jojoba Oil, native	191529006	2
Caesar & Loretz GmbH	Evening primrose oil, refined	191644002	1
Caesar & Loretz GmbH	Evening primrose oil, refined	191644003	2
Caesar & Loretz GmbH	Evening primrose oil, refined	19164401	19
Caesar & Loretz GmbH	Evening primrose oil, refined	19164402	7
Caesar & Loretz GmbH	Evening primrose oil, refined	19164407	7
Caesar & Loretz GmbH	Evening primrose oil, refined	19164408	1
Caesar & Loretz GmbH	Evening primrose oil, refined	19164409	3
Caesar & Loretz GmbH	Flaxseed oil, native	19164501	1
Caesar & Loretz GmbH	Evening primrose oil, refined	19175401	6
Caesar & Loretz GmbH	Almond oil, refined	19187101	23
Caesar & Loretz GmbH	Almond oil, refined	19187102	14
Caesar & Loretz GmbH	Almond oil, refined	19187106	5
Caesar & Loretz GmbH	Almond oil, refined	19187107	11
Caesar & Loretz GmbH	Shea butter, refined	192058003	4
Caesar & Loretz GmbH	Shea butter, refined	19205801	3
Caesar & Loretz GmbH	Shea butter, refined	19205802	1
Caesar & Loretz GmbH	Shea butter, refined	19205803	1
Caesar & Loretz GmbH	Shea butter, refined	19205804	2
Caesar & Loretz GmbH	Olive oil, native	19212001	1
Caesar & Loretz GmbH	Olive oil, native	19212002	9
Caesar & Loretz GmbH	Olive oil, native	19212005	14
Caesar & Loretz GmbH	Olive oil, native	19212006	5
Caesar & Loretz GmbH	Grape seed oil, refined	192412005	1
Caesar & Loretz GmbH	Peanut oil, refined	192485006	14
Caesar & Loretz GmbH	Peanut oil, refined	192485007	1
Caesar & Loretz GmbH	Peanut oil, refined	192485011	8
Caesar & Loretz GmbH	Borage oil, refined, stabili…	192492001	8
Caesar & Loretz GmbH	Borage oil, refined, stabili…	192492003	1
Caesar & Loretz GmbH	Borage oil, refined, stabili…	19249203	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Borage oil, refined, stabili…	19249204	2
Caesar & Loretz GmbH	Flaxseed oil, native	192554003	1
Caesar & Loretz GmbH	Sesame oil, refined	192560003	5
Caesar & Loretz GmbH	Sesame oil, refined	19256001	5
Caesar & Loretz GmbH	Decyl oleate	192834003	2
Caesar & Loretz GmbH	Evening primrose oil, refined	192982001	9
CAESAR & LORETZ GMBH	Evening primrose oil, refined	192982001	1
Caesar & Loretz GmbH	Evening primrose oil, refined	192982002	15
Caesar & Loretz GmbH	Evening primrose oil, refined	192982003	4
Caesar & Loretz GmbH	Evening primrose oil, refined	192982004	15
Caesar & Loretz GmbH	Evening primrose oil, refined	192982005	2
Caesar & Loretz GmbH	Evening primrose oil, refined	192982006	3
Caesar & Loretz GmbH	Evening primrose oil, refined	192982008	2
Caesar & Loretz GmbH	Evening primrose oil, refined	192982009	2
Caesar & Loretz GmbH	Evening primrose oil, refined	192982010	4
Caesar & Loretz GmbH	Evening primrose oil, refined	192982011	7
Caesar & Loretz GmbH	Evening primrose oil, refined	192982012	4
Caesar & Loretz GmbH	Evening primrose oil, refined	192982013	4
Caesar & Loretz GmbH	Flaxseed oil, native	20000372003	1
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	20000495002	4
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	20000495005	2
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	20000495006	1
Caesar & Loretz GmbH	Corn oil, refined	20000641001	1
Caesar & Loretz GmbH	Jojoba Oil, native	20000722002	1
Caesar & Loretz GmbH	Jojoba Oil, native	20000722003	5
Caesar & Loretz GmbH	Jojoba Oil, native	20000722008	3
Caesar & Loretz GmbH	Borage oil, refined, stabili…	20000791003	3
Caesar & Loretz GmbH	Wheatgerm oil, refined	20000829002	1
Caesar & Loretz GmbH	Codliver oil (type A)	20000831001	1
Caesar & Loretz GmbH	Codliver oil (type A)	20000831003	2
CAESAR & LORETZ GMBH	Codliver oil (type A)	20000831003	1
Caesar & Loretz GmbH	Sunflower oil, refined	20000985005	1
Caesar & Loretz GmbH	Evening primrose oil, refined	20001052001	15
Caesar & Loretz GmbH	Evening primrose oil, refined	20001052003	10
Caesar & Loretz GmbH	Evening primrose oil, refined	20001052004	2
Caesar & Loretz GmbH	Evening primrose oil, refined	20001052005	11
Caesar & Loretz GmbH	Shea butter, refined	20001135007	1
Caesar & Loretz GmbH	Olive oil, native	2000140002	1
Caesar & Loretz GmbH	Olive oil, native	2000141000	1
Caesar & Loretz GmbH	Olive oil, native	20001410001	18
Caesar & Loretz GmbH	Olive oil, native	20001410002	30
Caesar & Loretz GmbH	Olive oil, native	20001410003	15
Caesar & Loretz GmbH	Olive oil, native	20001410004	2
Caesar & Loretz GmbH	Peanut oil, refined	20001473003	2
Caesar & Loretz GmbH	Peanut oil, refined	20001473004	5
CAESAR & LORETZ GMBH	Peanut oil, refined	20001473004	1
Caesar & Loretz GmbH	Peanut oil, refined	20001473008	16
Caesar & Loretz GmbH	Wheatgerm oil, refined	20001556002	2
Caesar & Loretz GmbH	Wheatgerm oil, refined	20001556003	1
CAESAR & LORETZ GMBH	Wheatgerm oil, refined	20001556003	1
Caesar & Loretz GmbH	Wheatgerm oil, refined	20001556012	2
Caesar & Loretz GmbH	Wheatgerm oil, refined	20001556014	1
Caesar & Loretz GmbH	Almond oil, refined	20001624002	2
Caesar & Loretz GmbH	Almond oil, refined	20001624003	4
Caesar & Loretz GmbH	Peanut oil, refined	20001624004	5
CAESAR & LORETZ GMBH	Almond oil, refined	20001624004	1
Caesar & Loretz GmbH	Almond oil, refined	20001624006	8
Caesar & Loretz GmbH	Almond oil, refined	20001624007	12
Caesar & Loretz GmbH	Almond oil, refined	20001624011	2
Caesar & Loretz GmbH	Almond oil, refined	20001624012	10

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Avocado oil, refined	20001638003	3
Caesar & Loretz GmbH	Avocado oil, refined	20001638004	1
Caesar & Loretz GmbH	Avocado oil, refined	20001638005	1
Caesar & Loretz GmbH	Avocado oil, refined	20001638007	1
Caesar & Loretz GmbH	Grape seed oil, refined	20001744002	1
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	20002648002	3
Caesar & Loretz GmbH	Laurel oil	20002806006	2
Caesar & Loretz GmbH	Almond oil, refined	20002892001	7
Caesar & Loretz GmbH	Olive oil, native	20003049003	18
Caesar & Loretz GmbH	Olive oil, native	20003049004	4
Caesar & Loretz GmbH	Borage oil, refined, stabili...	20003248002	2
Caesar & Loretz GmbH	Borage oil, refined, stabili...	20003248004	2
Caesar & Loretz GmbH	Codliver oil (type A)	20003364003	1
Caesar & Loretz GmbH	Almond oil, refined	20003418001	4
Caesar & Loretz GmbH	Almond oil, refined	20003418002	19
Caesar & Loretz GmbH	Almond oil, refined	20003418004	13
Caesar & Loretz GmbH	Almond oil, refined	20003418006	1
Caesar & Loretz GmbH	Almond oil, refined	20003418007	2
Caesar & Loretz GmbH	Peanut oil, refined	20003610006	12
Caesar & Loretz GmbH	Peanut oil, refined	20003610014	14
Caesar & Loretz GmbH	Sesame oil, refined	20003617003	4
Caesar & Loretz GmbH	Sesame oil, refined	20003617004	1
Caesar & Loretz GmbH	Sesame oil, refined	20003617005	4
Caesar & Loretz GmbH	Corn oil, refined	20003898005	1
Caesar & Loretz GmbH	Olive oil, native	20003907003	1
Caesar & Loretz GmbH	Evening primrose oil, refined	2000404010	1
Caesar & Loretz GmbH	Evening primrose oil, refined	20004047006	2
Caesar & Loretz GmbH	Evening primrose oil, refined	20004047008	8
Caesar & Loretz GmbH	Evening primrose oil, refined	20004047009	16
Caesar & Loretz GmbH	Evening primrose oil, refined	20004047010	3
Caesar & Loretz GmbH	Codliver oil (type A)	20004067002	1
Caesar & Loretz GmbH	Codliver oil (type A)	20004067004	1
Caesar & Loretz GmbH	Decyl oleate	20004076004	5
Caesar & Loretz GmbH	Borage oil, refined, stabili...	20004100002	9
Caesar & Loretz GmbH	Borage oil, refined, stabili...	20004100004	1
Caesar & Loretz GmbH	Borage oil, refined, stabili...	20004100005	2
Caesar & Loretz GmbH	Almond oil, refined	20005067	1
Caesar & Loretz GmbH	Almond oil, refined	2000845	1
Caesar & Loretz GmbH	Evening primrose oil, refined	2008037-021	1
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	21000767001	1
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	21000767002	1
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	21000767005	2
Caesar & Loretz GmbH	Olive oil, native	21000836002	6
Caesar & Loretz GmbH	Olive oil, native	21000836004	2
Caesar & Loretz GmbH	Olive oil, native	21000836005	3
Caesar & Loretz GmbH	Olive oil, native	21000836006	9
Caesar & Loretz GmbH	Evening primrose oil, refined	21000915002	7
Caesar & Loretz GmbH	Evening primrose oil, refined	21000915003	4
Caesar & Loretz GmbH	Evening primrose oil, refined	21000915006	5
Caesar & Loretz GmbH	Jojoba Oil, native	21001028004	2
Caesar & Loretz GmbH	Peanut oil, refined	21001091003	5
Caesar & Loretz GmbH	Flaxseed oil, native	21001170004	3
Caesar & Loretz GmbH	Almond oil, refined	21001240004	1
Caesar & Loretz GmbH	Almond oil, refined	21001240006	12
Caesar & Loretz GmbH	Almond oil, refined	21001240007	9
Caesar & Loretz GmbH	Oleyl oleate (stabilised)	21001300001	2
Caesar & Loretz GmbH	Sesame oil, refined	21001358001	11
Caesar & Loretz GmbH	Sesame oil, refined	21001358003	1
Caesar & Loretz GmbH	Sesame oil, refined	21001358004	2
Caesar & Loretz GmbH	Sesame oil, refined	21001358005	11

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Sesame oil, refined	21001358008	1
Caesar & Loretz GmbH	Shea butter, refined	21001422006	1
Caesar & Loretz GmbH	Avocado oil, refined	21001530002	1
Caesar & Loretz GmbH	Avocado oil, refined	21001530006	4
Caesar & Loretz GmbH	Grape seed oil, refined	21001936004	1
Caesar & Loretz GmbH	Borage oil, refined, stabili...	21002207002	4
Caesar & Loretz GmbH	Borage oil, refined, stabili...	21002207004	1
Caesar & Loretz GmbH	Borage oil, refined, stabili...	21002207007	1
Caesar & Loretz GmbH	Olive oil, native	21002271002	10
Caesar & Loretz GmbH	Olive oil, native	21002271003	8
Caesar & Loretz GmbH	Olive oil, native	21002271005	1
Caesar & Loretz GmbH	Olive oil, native	21002271006	6
Caesar & Loretz GmbH	Almond oil, refined	21002363005	6
Caesar & Loretz GmbH	Almond oil, refined	21002363006	12
Caesar & Loretz GmbH	Almond oil, refined	21002363008	4
Caesar & Loretz GmbH	Almond oil, refined	21002363009	3
Caesar & Loretz GmbH	Peanut oil, refined	21002810004	3
Caesar & Loretz GmbH	Peanut oil, refined	21002810009	5
Caesar & Loretz GmbH	Avocado oil, refined	21002884003	2
Caesar & Loretz GmbH	Avocado oil, refined	21002884006	1
Caesar & Loretz GmbH	Wheatgerm oil, refined	21002983003	1
Caesar & Loretz GmbH	Olive oil, native	21003239002	4
Caesar & Loretz GmbH	Olive oil, native	21003239003	1
Caesar & Loretz GmbH	Evening primrose oil, refined	21003319002	10
Caesar & Loretz GmbH	Evening primrose oil, refined	21003319003	3
Caesar & Loretz GmbH	Almond oil, refined	21003729002	1
Caesar & Loretz GmbH	Almond oil, refined	21003729003	2
Caesar & Loretz GmbH	Almond oil, refined	21003729004	3
Caesar & Loretz GmbH	Almond oil, refined	21003729006	6
Caesar & Loretz GmbH	Olive oil, native	21004008004	1
Caesar & Loretz GmbH	Evening primrose oil, refined	21004228003	1
Caesar & Loretz GmbH	Decyl oleate	22000798001	1
Caesar & Loretz GmbH	Almond oil, refined	8004548002	1
Caesar & Loretz GmbH	Almond oil, refined	8005803007	1
Caesar & Loretz GmbH	Almond oil, refined	8005936002	3
Caesar & Loretz GmbH	Evening primrose oil, refined	BTR36050601	1
Caesar & Loretz GmbH	Evening primrose oil, refined	EP745611-1	1
Caesar & Loretz GmbHAHD	Borage oil, refined, stabili...	18080509	2
Caesar & Loretz Hilden/...	Peanut oil, refined	19059208	1
Caesar & Loretz Hilden/...	Peanut oil, refined	192485006	3
Caesar & Loretz Hilden	Avocado oil, refined	18044909	1
Caesar & Loretz Hilden	Peanut oil, refined	18208207	1
Caesar & Loretz Hilden	Peanut oil, refined	18296002	2
Caesar & Loretz Hilden	Avocado oil, refined	18306802	1
Caesar & Loretz Hilden	Olive oil, native	18311906	1
Caesar & Loretz Hilden	Peanut oil, refined	19059205	2
Caesar & Loretz Hilden	Olive oil, native	20001410002	1
Caesar & Loretz Hilden	Peanut oil, refined	20001473004	1
Caesar & Loretz Hilden	Evening primrose oil, refined	20004047008	1
Caesar & Loretz/ Caesar...	Peanut oil, refined	17328601	1
Caesar & Loretz/ Noweda	Avocado oil, refined	12248312	2
Caesar & Loretz/ Noweda	Almond oil, refined	12357101	2
Caesar & Loretz/ Noweda	Almond oil, refined	18015007	1
Caesar & Loretz/AHC	Peanut oil, refined	16071104	1
Caesar & Loretz/AHD	Almond oil, refined	18184107	1
Caesar & Loretz/Geilenk...	Evening primrose oil, refined	18216217	1
Caesar & Loretz/Geilenk...	Evening primrose oil, refined	19164407	1
Caesar & Loretz/Geilenk...	Evening primrose oil, refined	192982001	1
Caesar & Loretz/Geilenk...	Evening primrose oil, refined	192982003	1
Caesar & Loretz/Geilenk...	Evening primrose oil, refined	192982009	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz/Geilenk…	Evening primrose oil, refined	20001052001	2
Caesar & Loretz/Noweda	Evening primrose oil, refined	1512005-01	1
Caesar & Loretz/Noweda	Laurel oil	15216401	1
Caesar & Loretz/Noweda	Avocado oil, refined	15268203	1
Caesar & Loretz/Noweda	Peanut oil, refined	15273402	1
Caesar & Loretz/Noweda	Codliver oil (type A)	15325201	1
Caesar & Loretz/Noweda	Almond oil, refined	15409704	1
Caesar & Loretz/Noweda	Almond oil, refined	16071002	1
Caesar & Loretz/Noweda	Almond oil, refined	16071003	1
Caesar & Loretz/Noweda	Peanut oil, refined	16249502	1
Caesar & Loretz/Noweda	Avocado oil, refined	17038802	1
Caesar & Loretz/Noweda	Avocado oil, refined	17038803	1
Caesar & Loretz/Noweda	Almond oil, refined	17176502	1
Caesar & Loretz	Evening primrose oil, refined	13121809	1
Caesar & Loretz	Evening primrose oil, refined	15417808	1
Caesar & Loretz	Olive oil, native	160327402	1
Caesar & Loretz	Almond oil, refined	16071006	1
Caesar & Loretz	Peanut oil, refined	16071103	1
Caesar & Loretz	Oleyl oleate (stabilised)	16104907	1
Caesar & Loretz	Olive oil, native	17121602	1
Caesar & Loretz	Peanut oil, refined	17169001	2
Caesar & Loretz	Peanut oil, refined	17169018	1
Caesar & Loretz	Almond oil, refined	17176502	1
Caesar & Loretz	Almond oil, refined	17207906	2
Caesar & Loretz	Oleyl oleate (stabilised)	17358103	2
Caesar & Loretz	Evening primrose oil, refined	18009110	1
Caesar & Loretz	Almond oil, refined	18070605	1
Caesar & Loretz	Olive oil, native	18208101	1
Caesar & Loretz	Peanut oil, refined	18208202	1
Caesar & Loretz	Evening primrose oil, refined	19164403	1
Caesar & Loretz	Peanut oil, refined	192485006	1
caesar &loretz GmbH,Phö…	Peanut oil, refined	16071101	1
Caesar 6 Loretz GmbH	Olive oil, native	16327402	1
Caesar Loretz	Almond oil, refined	200001624012	1
Caesar Loretz	Evening primrose oil, refined	20001052004	1
Caesar Loretz	Almond oil, refined	20001624012	1
Caesar Loretz	Olive oil, native	20003049003	1
Caesar Loretz	Evening primrose oil, refined	21000915005	1
Caesar Loretz	Almond oil, refined	21001240007	1
Caesar und Loretz GmbH	Sesame oil, refined	16312505	1
Caesar und Loretz GmbH	Evening primrose oil, refined	18216214	1
Caesar und Loretz	Evening primrose oil, refined	19164401	1
Caesar&Lorenz / Gehe	Evening primrose oil, refined	18216217	1
Caesar&Lorenz/Anzag	Evening primrose oil, refined	18216207	1
Caesar&Lorenz/Phoenix	Olive oil, native	17121604	4
Caesar&Lorenz	Borage oil, refined, stabili…	20004100005	1
Caesar&Lorenz	Almond oil, refined	21002363005	1
caesar&loretz / AHD	Evening primrose oil, refined	192982013	1
Caesar&Loretz GmbH, AHC…	Olive oil, native	17038702	1
Caesar&Loretz GmbH,PHön…	Peanut oil, refined	16348001	1
Caesar&Loretz GmbH/ Gehe	Evening primrose oil, refined	16281306	1
Caesar&Loretz GmbH/ San…	Olive oil, native	17361106	1
Caesar&Loretz GmbH/Anzag	Peanut oil, refined	12323204	1
Caesar&Loretz GmbH/Anzag	Peanut oil, refined	13306106	1
Caesar&Loretz GmbH/Anzag	Peanut oil, refined	14355905	1
Caesar&Loretz GmbH	Oleyl oleate (stabilised)	15410204	1
Caesar&Loretz GmbH	Peanut oil, refined	18296001	1
Caesar&Loretz GmbH	Peanut oil, refined	19059208	1
Caesar&Loretz GmbH	Evening primrose oil, refined	19164401	1
Caesar&Loretz GmbH	Evening primrose oil, refined	192982002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar&loretz,Phoenix,1...	Olive oil, native	15399703	1
Caesar&loretz,Phoenix	Peanut oil, refined	14033601	1
Caesar&loretz,Phoenix	Peanut oil, refined	14246903	1
caesar&loretz,Phönix,11...	Almond oil, refined	15127304	1
caesar&loretz,phönix	Peanut oil, refined	1508506	1
Caesar&Loretz/Kehr	Wheatgerm oil, refined	20000829002	1
Caesar&Loretz/Noweda	Oleyl oleate (stabilised)	15321702	1
caesar&loretz	Evening primrose oil, refined	15171110	1
Caesar&Loretz	Almond oil, refined	16327311	1
Caesar&Loretz	Olive oil, native	17038702	2
Caesar&Loretz	Evening primrose oil, refined	18009110	5
Caesar&LoretzGmbH,07,03...	Olive oil, native	16327402	1
Caesar/ Alliance Health...	Almond oil, refined	18015008	1
Caesar/AEP	Almond oil, refined	21002363002	1
Caesar/Lorenz	Peanut oil, refined	12274302	1
Caesar/Noweda	Avocado oil, refined	12064801	1
Caesar/Noweda	Avocado oil, refined	12064812	2
Caesar/Noweda	Borage oil, refined, stabili...	12161202	1
Caesar/Noweda	Borage oil, refined, stabili...	13136501	1
Caesar/Noweda	Borage oil, refined, stabili...	13136504	1
Caesar/Noweda	Shea butter, refined	13143813	2
Caesar/Noweda	Borage oil, refined, stabili...	13372103	1
Caesar/Noweda	Borage oil, refined, stabili...	15305003	1
Caeser & Loretz GmbH	Almond oil, refined	21002363009	1
Caeser und Loretz GmbH	Almond oil, refined	19084511	1
Caeser und Loretz GmbH	Evening primrose oil, refined	19164401	2
Caleo/ Noweda	Almond oil, refined	16071007	1
Caleo/ Noweda	Sesame oil, refined	17332103	1
Caleo/ Noweda	Peanut oil, refined	18014405	1
Caleo/ Noweda	Evening primrose oil, refined	18216203	3
Caleo/Fiebig	Almond oil, refined	1716508	1
Caleo/Phönix	Peanut oil, refined	15015103	1
Caleo/Phönix	Almond oil, refined	15078405	2
Caleo/Phönix	Evening primrose oil, refined	19175401	1
Caleo	Peanut oil, refined	14/10-B07	1
Calo, Hilden/ Phönix	Evening primrose oil, refined	19164402	1
Calo, Hilden/ Phönix	Almond oil, refined	19187102	1
calo	Evening primrose oil, refined	18009107	1
Calo	Olive oil, native	18311906	1
Canea/Phönix	Shea butter, refined	SB1351M13	1
Caolo / Kehr	Almond oil, refined	20001624011	2
Caolo- Noweda	Almond oil, refined	15197404	1
Carelo	Peanut oil, refined	192485006	1
Cealo / Noweda	Evening primrose oil, refined	13121814	1
Cealo / Anzag	Evening primrose oil, refined	220712(22001284005)	1
Cealo/ Gehe	Jojoba Oil, native	21001028011	1
Cealo/ Noweda	Almond oil, refined	14042704	1
Cealo/AHD	Peanut oil, refined	16071101	1
Cealo/Anzag	Borage oil, refined, stabili...	17307801	1
Cealo/Gehe	Olive oil, native	12077701	1
Cealo/Gehe	Olive oil, native	17361106	1
Cealo/Gehe	Borage oil, refined, stabili...	18080501	1
Cealo/GEHE	Codliver oil (type A)	18323905	1
Cealo/Jenne	Almond oil, refined	19084505	1
Cealo/Noweda	Peanut oil, refined	17169010	1
Cealo/Phoenix	Peanut oil, refined	14115405	1
Cealo/Phoenix	Almond oil, refined	2003418007	1
Cealo/Sanacorp	Almond oil, refined	19084505	1
Cealo	Grape seed oil, refined	15144505	1
Cealo	Jojoba Oil, native	16070609	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Cealo	Almond oil, refined	16071007	3
Cealo	Peanut oil, refined	16071104	1
Cealo	Almond oil, refined	19000779001	1
Cealo	Shea butter, refined	19205802	2
Ceasar & loretz GmbH	Avocado oil, refined	18306803	1
Ceasar&Lorenz GmbH/ San...	Evening primrose oil, refined	191644003	1
Celo/ Phönix	Shea butter, refined	192058004	2
celo/Jenne	Olive oil, native	13010904	1
Celo/Noweda	Peanut oil, refined	18015008	1
celo/phönix	Evening primrose oil, refined	13121814	1
Chiesi/ Phoenix/ 03.02....	Almond oil, refined	19084518	1
Coelo	Sunflower oil, refined	17242101	1
DAC 2006	Shea butter, refined	11346509	1
DAC 2006	Jojoba Oil, native	11358102	1
DAC	Jojoba Oil, native	17073309	1
Delta	Evening primrose oil, refined	1704018-01	1
Delta	Olive oil, native	17236505	1
Dr. Paulsen	Codliver oil (type A)	5437202	1
Dr. Theiss Naturwaren	Olive oil, native	1021A	1
Dr. Wolff	Avocado oil, refined	17038802	1
Dr.August Wolff/Phönix	Wheatgerm oil, refined	16137403	1
dr.r.hahn	Evening primrose oil, refined	1509005-01	1
E PLUS	Olive oil, native	17038702	1
E Plus	Almond oil, refined	1712-5901	1
Ebert & Jacobi 02.08...	Olive oil, native	15399704	1
Ebert & Jacobi	Almond oil, refined	15409701	1
Ebert & Jacobi	Almond oil, refined	17176501	1
Ebert & Jacobi	Oleyl oleate (stabilised)	17358103	1
Ebert & Jacobi	Peanut oil, refined	18014402	1
Ebert & Jacobi	Peanut oil, refined	18296002	1
Ebert & Jacobi	Olive oil, native	296260	1
Ebert & Jacobi	Evening primrose oil, refined	AP144330N	1
Ebert KKH 20.09.16	Peanut oil, refined	8001417003	2
Ebert u. Jacobi 16.0...	Avocado oil, refined	302706	1
Ebert und Jacobi	Peanut oil, refined	18296002	1
ecocert/sanacorp	Shea butter, refined	20-0418C	1
Eig	Almond oil, refined	80515HML01	1
Eigenherstellung	Almond oil, refined	120814HAS01	1
Eigenherstellung	Almond oil, refined	120914HAS01	1
Eigenherstellung	Almond oil, refined	140113HML01	1
Eigenherstellung	Almond oil, refined	160414HML01	1
Eigenherstellung	Almond oil, refined	180815HJK01	1
Eigenherstellung	Almond oil, refined	180915HML01	1
Eigenherstellung	Almond oil, refined	181114HML01	1
Eigenherstellung	Almond oil, refined	20915HML01	1
Eigenherstellung	Almond oil, refined	210313HJK01	2
Eigenherstellung	Almond oil, refined	21112HML01	1
Eigenherstellung	Almond oil, refined	240214HJK01	1
Eigenherstellung	Almond oil, refined	240513HML01	1
Eigenherstellung	Almond oil, refined	260515HML01	1
Eigenherstellung	Almond oil, refined	270215HJK01	1
Eigenherstellung	Almond oil, refined	290714HJK01	1
Eigenherstellung	Almond oil, refined	290714HJK02	1
Eigenherstellung	Almond oil, refined	300615HML01	1
Eigenherstellung	Almond oil, refined	40613HML01	1
Eigenherstellung	Almond oil, refined	40613PML01	1
Eigenherstellung	Almond oil, refined	40613PML02	1
Eigenherstellung	Almond oil, refined	50115PML02	1
Eigenherstellung	Almond oil, refined	50612HML01	1
Eigenherstellung	Almond oil, refined	60913HJK01	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Eigenherstellung	Almond oil, refined	61113HML01	1
Eigenherstellung	Almond oil, refined	80213HJK02	1
Eigenproduktion	Evening primrose oil, refined	16003901	1
Eimermacher	Olive oil, native	8002868001	1
E-plus	Almond oil, refined	1709-5780	1
E-Plus	Almond oil, refined	307299	2
Eu Rho	Evening primrose oil, refined	1911009-01	3
eur	Evening primrose oil, refined	1710011-02	2
EuRho / Noweda	Evening primrose oil, refined	1911009-01	2
EuRho / Phönix	Evening primrose oil, refined	2105001-01	1
EuRho / Sanacorp 9.06.2...	Evening primrose oil, refined	1911009-01	1
EuRho- Nowewda	Evening primrose oil, refined	1803006-02	1
EuRho/ AHD	Evening primrose oil, refined	18009105	1
EuRho/ NOWEDA	Olive oil, native	18208106	1
EuRho/ Phönix	Evening primrose oil, refined	1901046-01	3
EuRho/NO	Evening primrose oil, refined	1901046-01	1
EuRho/Noweda	Olive oil, native	308230	1
EuRho/Noweda	Almond oil, refined	8003885002	1
EuRho/Phönix	Evening primrose oil, refined	1704018-01	1
EuRho/Sanacorp	Evening primrose oil, refined	1704018-01	1
EuRho/Sanacorp	Evening primrose oil, refined	2003029-01	1
EuRho/Sanacorp	Evening primrose oil, refined	2008037-01	2
EuRho/Spangro	Evening primrose oil, refined	1710011-01	1
EuRho	Peanut oil, refined	1204018-01	1
EuRho	Evening primrose oil, refined	1210012-02	5
EuRho	Olive oil, native	13010911	1
EuRho	Olive oil, native	1501023-01	1
EuRho	Olive oil, native	1503047-01	1
EuRho	Evening primrose oil, refined	1506001-01	1
EuRho	Evening primrose oil, refined	1509005-01	2
EuRho	Evening primrose oil, refined	1704018-01	1
Eurho	Evening primrose oil, refined	1710011-01	2
EuRho	Evening primrose oil, refined	1803006-02	2
EuRho	Evening primrose oil, refined	1901046-01	4
EuRho	Almond oil, refined	1904007-01	1
EuRho	Evening primrose oil, refined	1911009-01	2
EuRho	Evening primrose oil, refined	2003029-01	6
EuRho	Evening primrose oil, refined	2008037	1
EuRho	Evening primrose oil, refined	2008037-01	5
EuRho	Evening primrose oil, refined	2008037-02	2
EuRho	Evening primrose oil, refined	3105001-01	1
EuRho	Avocado oil, refined	4111M-01960	1
EuRho	Evening primrose oil, refined	901046-011	1
EuRho	Evening primrose oil, refined	BTR340388-01	1
EuRho	Evening primrose oil, refined	BTR349512-01	1
Euro Gehe	Evening primrose oil, refined	1901046-01	1
Euro OCT Pharma/ Sanacorp	Avocado oil, refined	138090	1
Euro OTC	Evening primrose oil, refined		2
Euro OTC	Almond oil, refined	1000003242	3
Euro OTC	Almond oil, refined	1000010093	1
Euro OTC	Olive oil, native	1000013127	1
Euro OTC	Borage oil, refined, stabili...	1018204582	5
Euro OTC	Evening primrose oil, refined	1109004-01	1
Euro OTC	Avocado oil, refined	1112018-01	1
Euro OTC	Soy lecithin, liquid	1204028-01	1
Euro OTC	Evening primrose oil, refined	1205023-01	5
Euro OTC	Evening primrose oil, refined	1205023-02	6
Euro OTC	Evening primrose oil, refined	1205023-1	1
Euro OTC	Almond oil, refined	1207014-01	1
Euro OTC	Evening primrose oil, refined	1210012-01	13

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Evening primrose oil, refined	1210012-02	11
Euro OTC	Evening primrose oil, refined	12112906	1
Euro OTC	Olive oil, native	1212022-01	2
Euro OTC	Olive oil, native	12356	1
Euro OTC	Flaxseed oil, native	124116	1
Euro OTC	Sesame oil, refined	124494	1
Euro OTC	Almond oil, refined	1301001-02	2
Euro OTC	Peanut oil, refined	1301015	1
Euro OTC	Avocado oil, refined	1301017-01	1
Euro OTC	Avocado oil, refined	1301039-01	1
Euro OTC	Sesame oil, refined	13011107	1
Euro OTC	Evening primrose oil, refined	130401801	1
Euro OTC	Evening primrose oil, refined	1304018-01	11
Euro OTC	Evening primrose oil, refined	13040-18-01	1
Euro OTC	Evening primrose oil, refined	1304018-02	14
Euro OTC	Avocado oil, refined	1304039-01	3
Euro OTC	Wheatgerm oil, refined	1305015-01	1
Euro OTC	Soy lecithin, liquid	1305019-01	1
Euro OTC	Avocado oil, refined	1305046-01	5
Euro OTC	Flaxseed oil, native	13058506	1
Euro OTC	Decyl oleate	1309018-01	2
Euro OTC	Decyl oleate	1309018-03	1
Euro OTC	Evening primrose oil, refined	13091	5
Euro OTC	Almond oil, refined	1310022-01	2
Euro OTC	Almond oil, refined	131002202	1
Euro OTC	Omega-3-fish oil	1311028-01	1
Euro OTC	Avocado oil, refined	13111404	1
Euro OTC	Olive oil, native	13224704	1
Euro OTC	Evening primrose oil, refined	133339	1
Euro OTC	Evening primrose oil, refined	136734	1
Euro OTC	Evening primrose oil, refined	139798	5
Euro OTC	Evening primrose oil, refined	14002503	1
Euro OTC	Olive oil, native	1401011-01	1
Euro OTC	Evening primrose oil, refined	140103301	1
Euro OTC	Evening primrose oil, refined	1401033-01	10
Euro OTC	Evening primrose oil, refined	140103302	1
Euro OTC	Evening primrose oil, refined	1401033-02	17
Euro OTC	Evening primrose oil, refined	140133-01	1
Euro OTC	Evening primrose oil, refined	140133-02	1
Euro OTC	Avocado oil, refined	1402027-01	6
Euro OTC	Soy lecithin, liquid	1404022-01	2
Euro OTC	Soy lecithin, liquid	1404022V-02	3
Euro OTC	Almond oil, refined	1404050-01	1
Euro OTC	Avocado oil, refined	1405007-01	3
Euro OTC	Olive oil, native	1406009-01	1
Euro OTC	Evening primrose oil, refined	140700201	2
Euro OTC	Evening primrose oil, refined	1407002-01	14
Euro OTC	Evening primrose oil, refined	140700202	2
Euro OTC	Evening primrose oil, refined	1407002-02	21
Euro OTC	Almond oil, refined	1407050-01	1
Euro OTC	Almond oil, refined	1407050-02	2
Euro OTC	Avocado oil, refined	1410027-01	5
Euro OTC	Olive oil, native	14182303	1
Euro OTC	Borage oil, refined, stabili...	14203012	1
Euro OTC	Olive oil, native	14306903	1
Euro OTC	Soy lecithin, liquid	14404022-01	1
Euro OTC	Almond oil, refined	147533	1
Euro OTC	Evening primrose oil, refined	14C07-B01-291800	1
Euro OTC	Avocado oil, refined	150101501	1
Euro OTC	Avocado oil, refined	1501015-01	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Avocado oil, refined	1501015V-01	1
Euro OTC	Olive oil, native	1501023-01	4
Euro OTC	Evening primrose oil, refined	1503031-0	1
Euro OTC	Evening primrose oil, refined	150303101	1
Euro OTC	Evening primrose oil, refined	1503031-01	21
Euro OTC	Soy lecithin, liquid	1503038	1
Euro OTC	Soy lecithin, liquid	1503038-02	2
Euro OTC	Olive oil, native	1503047-02	3
Euro OTC	Olive oil, native	1503047-03	15
Euro OTC	Evening primrose oil, refined	1506001	1
Euro OTC	Evening primrose oil, refined	1506001-01	28
Euro OTC	Codliver oil (type A)	1506009-01	1
Euro OTC	Borage oil, refined, stabili…	15063407	1
Euro OTC	Evening primrose oil, refined	150900501	1
Euro OTC	Evening primrose oil, refined	1509005-01	26
Euro OTC	Almond oil, refined	1510014-01	4
Euro OTC	Evening primrose oil, refined	151200	1
Euro OTC	Evening primrose oil, refined	15120005-02	1
Euro OTC	Evening primrose oil, refined	1512005	1
Euro OTC	Evening primrose oil, refined	151200501	1
Euro OTC	Evening primrose oil, refined	1512005-01	31
Euro OTC	Evening primrose oil, refined	1512005-02	27
Euro OTC	Evening primrose oil, refined	15171109	1
Euro OTC	Olive oil, native	152834	1
Euro OTC	Sesame oil, refined	15374001	1
Euro OTC	Evening primrose oil, refined	15417808	1
Euro OTC	Olive oil, native	1602022-01	17
Euro OTC	Olive oil, native	1602022-02	1
Euro OTC	Omega-3-fish oil	1603021-01	1
Euro OTC	Almond oil, refined	160302501	1
Euro OTC	Almond oil, refined	1603025-01	5
Euro OTC	Evening primrose oil, refined	160304801	2
Euro OTC	Evening primrose oil, refined	1603048-01	36
Euro OTC	Evening primrose oil, refined	160348-01	1
Euro OTC	Soy lecithin, liquid	160403401	1
Euro OTC	Soy lecithin, liquid	1604034-01	14
Euro OTC	Evening primrose oil, refined	1605027	1
Euro OTC	Evening primrose oil, refined	1605027-01	26
Euro OTC	Avocado oil, refined	1605034-01	7
Euro OTC	Avocado oil, refined	160503403	1
Euro OTC	Avocado oil, refined	1605034-03	4
Euro OTC	Borage oil, refined, stabili…	16052301	1
Euro OTC	Almond oil, refined	16071001	2
Euro OTC	Almond oil, refined	16071002	1
Euro OTC	Almond oil, refined	16071006	1
Euro OTC	Peanut oil, refined	16071101	1
Euro OTC	Peanut oil, refined	16071105	1
Euro OTC	Olive oil, native	1608006-01	2
Euro OTC	Olive oil, native	1608006-02	88
Euro OTC	Evening primrose oil, refined	160800801	1
Euro OTC	Evening primrose oil, refined	1608008-01	33
Euro OTC	Jojoba Oil, native	1609003-01	1
Euro OTC	Decyl oleate	16107101	1
Euro OTC	Evening primrose oil, refined	16204	1
Euro OTC	Evening primrose oil, refined	16281318	1
Euro OTC	Evening primrose oil, refined	16281319	1
Euro OTC	Olive oil, native	16327406	3
Euro OTC	Almond oil, refined	17001036-01	1
Euro OTC	Evening primrose oil, refined	170011-02	1
Euro OTC	Olive oil, native	17001926	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Almond oil, refined	1701036-01	4
Euro OTC	Soy lecithin, liquid	1703001-01	9
Euro OTC	Evening primrose oil, refined	170302001	1
Euro OTC	Evening primrose oil, refined	1703020-01	39
Euro OTC	Evening primrose oil, refined	1703020-1710011-02	1
Euro OTC	Evening primrose oil, refined	17040118-01	1
Euro OTC	Evening primrose oil, refined	1704018	2
Euro OTC	Evening primrose oil, refined	170401801	7
Euro OTC	Evening primrose oil, refined	1704018-01	100
Euro OTC	Evening primrose oil, refined	1704019-01	1
Euro OTC	Evening primrose oil, refined	170408-01	2
Euro OTC	Evening primrose oil, refined	17041018-01	1
Euro OTC	Peanut oil, refined	17042802	1
Euro OTC	Almond oil, refined	1707007-01	1
Euro OTC	Evening primrose oil, refined	171001-02	1
Euro OTC	Evening primrose oil, refined	1710011	1
Euro OTC	Evening primrose oil, refined	1710011_01	1
Euro OTC	Evening primrose oil, refined	171001101	4
Euro OTC	Evening primrose oil, refined	1710011-01	29
Euro OTC	Evening primrose oil, refined	171001102	6
Euro OTC	Evening primrose oil, refined	1710011-02	69
Euro OTC	Evening primrose oil, refined	171011-01	1
Euro OTC	Evening primrose oil, refined	17110011-01	1
Euro OTC	Evening primrose oil, refined	17110011-02	1
Euro OTC	Peanut oil, refined	17169018	1
Euro OTC	Almond oil, refined	17176501	1
Euro OTC	Olive oil, native	17236501	1
Euro OTC	Evening primrose oil, refined	17255801	1
Euro OTC	Borage oil, refined, stabili...	17307801	1
Euro OTC	Peanut oil, refined	17328601	1
Euro OTC	Olive oil, native	17391101	1
Euro OTC	Olive oil, native	18002119	1
Euro OTC	Wheatgerm oil, refined	18009509	1
Euro OTC	Olive oil, native	1802011-01	70
Euro OTC	Shea butter, refined	1802A0688	1
Euro OTC	Evening primrose oil, refined	1803006	2
Euro OTC	Evening primrose oil, refined	180300601	5
Euro OTC	Evening primrose oil, refined	1803006-01	50
Euro OTC	Evening primrose oil, refined	180300602	1
Euro OTC	Evening primrose oil, refined	1803006-02	56
Euro OTC	Evening primrose oil, refined	1803006-1	1
Euro OTC	Soy lecithin, liquid	180303001	1
Euro OTC	Soy lecithin, liquid	1803030-01	5
Euro OTC	Evening primrose oil, refined	180306-02	1
Euro OTC	Evening primrose oil, refined	18033006-01	1
Euro OTC	Olive oil, native	1805023-01	45
Euro OTC	Omega-3-fish oil	1807006-03	1
Euro OTC	Almond oil, refined	1807007-01	4
Euro OTC	Olive oil, native	1807019-01	1
Euro OTC	Almond oil, refined	18070608	1
Euro OTC	Olive oil, native	1808026-01	151
Euro OTC	Olive oil, native	1808026-02	1
Euro OTC	Evening primrose oil, refined	1808028-01	1
Euro OTC	Borage oil, refined, stabili...	18080501	1
Euro OTC	Evening primrose oil, refined	1809006-02	1
Euro OTC	Olive oil, native	1809017-01	1
Euro OTC	Evening primrose oil, refined	1813M-03075	1
Euro OTC	Almond oil, refined	18184107	1
Euro OTC	Almond oil, refined	18184113	1
Euro OTC	Codliver oil (type A)	18191801	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Olive oil, native	18208101	1
Euro OTC	Olive oil, native	1822011-01	1
Euro OTC	Grape seed oil, refined	18224202	1
Euro OTC	Almond oil, refined	18295901	1
Euro OTC	Evening primrose oil, refined	183006-01	1
Euro OTC	Olive oil, native	19000226	1
Euro OTC	Olive oil, native	19000227	1
Euro OTC	Evening primrose oil, refined	19001046-01	1
Euro OTC	Evening primrose oil, refined	1901046	2
Euro OTC	Evening primrose oil, refined	190104601	3
Euro OTC	Evening primrose oil, refined	1901046-01	108
Euro OTC	Evening primrose oil, refined	1901048-01	1
Euro OTC	Evening primrose oil, refined	190146-01	2
Euro OTC	Olive oil, native	1903013-01	49
Euro OTC	Almond oil, refined	1904007	1
Euro OTC	Almond oil, refined	190400701	1
Euro OTC	Almond oil, refined	1904007-01	3
Euro OTC	Olive oil, native	1905018-01	98
Euro OTC	Olive oil, native	1905918-01	5
Euro OTC	Soy lecithin, liquid	1907035-01	7
Euro OTC	Almond oil, refined	190901501	1
Euro OTC	Almond oil, refined	1909015-01	6
Euro OTC	Olive oil, native	1910015-01	63
Euro OTC	Evening primrose oil, refined	1911006-01	1
Euro OTC	Evening primrose oil, refined	1911009	1
Euro OTC	Evening primrose oil, refined	1911009-001	1
Euro OTC	Evening primrose oil, refined	191100901	4
Euro OTC	Evening primrose oil, refined	1911009-01	97
Euro OTC	Evening primrose oil, refined	1911009-1	1
Euro OTC	Evening primrose oil, refined	191109-01	1
Euro OTC	Sesame oil, refined	1911-6518	1
Euro OTC	Evening primrose oil, refined	191644003	1
Euro OTC	Almond oil, refined	192314	1
Euro OTC	Peanut oil, refined	192485006	1
Euro OTC	Evening primrose oil, refined	192982001	1
Euro OTC	Evening primrose oil, refined	200003702	1
Euro OTC	Almond oil, refined	20005068	1
Euro OTC	Evening primrose oil, refined	20008037-01	1
Euro OTC	Olive oil, native	2001005-01	29
Euro OTC	Evening primrose oil, refined	2003029	4
Euro OTC	Evening primrose oil, refined	200302901	3
Euro OTC	Evening primrose oil, refined	2003029-01	176
Euro OTC	Evening primrose oil, refined	200303701	1
Euro OTC	Olive oil, native	200305001	1
Euro OTC	Olive oil, native	2003050-01	50
Euro OTC	Almond oil, refined	2004032-01	5
Euro OTC	Olive oil, native	200603401	1
Euro OTC	Olive oil, native	2006034-01	151
Euro OTC	Soy lecithin, liquid	20061209	1
Euro OTC	Evening primrose oil, refined	20080037-01	1
Euro OTC	Evening primrose oil, refined	2008031-01	1
Euro OTC	Evening primrose oil, refined	2008037	5
Euro OTC	Evening primrose oil, refined	200803701	2
Euro OTC	Evening primrose oil, refined	2008037-01	79
Euro OTC	Evening primrose oil, refined	200803702	1
Euro OTC	Evening primrose oil, refined	2008037-02	40
Euro OTC	Almond oil, refined	2009004-01	1
Euro OTC	Olive oil, native	2012004-01	69
Euro OTC	Avocado oil, refined	2041404	1
Euro OTC	Olive oil, native	21001644	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Almond oil, refined	2101033-02	1
Euro OTC	Almond oil, refined	21025E/1803	1
Euro OTC	Olive oil, native	2104011-01	40
Euro OTC	Evening primrose oil, refined	2105000-01	1
Euro OTC	Evening primrose oil, refined	210500101	2
Euro OTC	Evening primrose oil, refined	2105001-01	54
Euro OTC	Evening primrose oil, refined	2105001-02	17
Euro OTC	Olive oil, native	2107030-01	89
Euro OTC	Evening primrose oil, refined	215001-01	1
Euro OTC	Evening primrose oil, refined	2204018-01	3
Euro OTC	Avocado oil, refined	28041506	1
Euro OTC	Avocado oil, refined	30121424	1
Euro OTC	Olive oil, native	306950	1
Euro OTC	Olive oil, native	307103	2
Euro OTC	Olive oil, native	308228	11
Euro OTC	Almond oil, refined	540014-01	1
Euro OTC	Codliver oil (type A)	5529601	2
Euro OTC	Peanut oil, refined	5592601	1
Euro OTC	Soy lecithin, liquid	614E3336	1
Euro OTC	Evening primrose oil, refined	700077	1
Euro OTC	Evening primrose oil, refined	700775	1
Euro OTC	Jojoba Oil, native	8001330001	2
Euro OTC	Codliver oil (type A)	8002468002	4
Euro OTC	Codliver oil (type A)	8003906002	1
Euro OTC	Olive oil, native	8004067001	1
Euro OTC	Almond oil, refined	8004390001	1
Euro OTC	Evening primrose oil, refined	80616-11	1
Euro OTC	Evening primrose oil, refined	8072002	1
Euro OTC	Evening primrose oil, refined	AP141023N	1
Euro OTC	Evening primrose oil, refined	AP147307N	1
Euro OTC	Evening primrose oil, refined	BTR340388	1
Euro OTC	Evening primrose oil, refined	BTR340388-01	5
Euro OTC	Evening primrose oil, refined	BTR34912-01	1
Euro OTC	Evening primrose oil, refined	BTR349512-01	4
Euro OTC	Evening primrose oil, refined	BTR3495-12-01	1
Euro OTC	Evening primrose oil, refined	BTR3605056-01	1
Euro OTC	Evening primrose oil, refined	BTR36050601	1
Euro OTC	Evening primrose oil, refined	BTR360506-01	5
Euro OTC	Evening primrose oil, refined	EP704511-2	4
Euro OTC	Evening primrose oil, refined	EP713711-1	4
Euro OTC	Evening primrose oil, refined	EP-713-711-1	1
Euro OTC	Evening primrose oil, refined	ep745611-1	1
Euro OTC	Evening primrose oil, refined	EP745611-1	11
Euro OTC	Evening primrose oil, refined	EP848211-1	3
Euro OTC	Evening primrose oil, refined	EP868211-1	1
Euro OTC	Evening primrose oil, refined	Euro	1
Euro Pharma/Phönix	Evening primrose oil, refined	2003029-01	4
Euro/ Phönix	Evening primrose oil, refined	1304018-02	1
Euro/ Phönix	Evening primrose oil, refined	2008037-02	2
EUro/AHD	Soy lecithin, liquid	1305019-01	1
Euro/Gehe	Evening primrose oil, refined	1710011-02	1
Euro/Gehe	Evening primrose oil, refined	1803006-01	1
Euro/Gehe	Evening primrose oil, refined	1901046-01	3
EuRo/Noweda	Evening primrose oil, refined	1710011-02	1
Euro/Noweda	Evening primrose oil, refined	1901046-01	1
Euro/Phoenix	Evening primrose oil, refined	1512005-02	2
Euro/Phönix	Evening primrose oil, refined	1304018-01	2
Euro/Sanacorp	Evening primrose oil, refined	1512005-01	1
Euro/Sanacorp	Almond oil, refined	1801030-01	1
Euro/Sanacorp	Evening primrose oil, refined	1803006-02	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro	Almond oil, refined	1510014-01	1
EuRoh/ Gehe	Evening primrose oil, refined	2003029-01	1
Euroo/Gehe	Evening primrose oil, refined	1603048-01	1
euro-oct	Olive oil, native	1503047-02	1
EuroPharm/Phönix	Evening primrose oil, refined	2008037-02	1
EuroPharm	Evening primrose oil, refined	2105001-01	1
EuroTOC / Noweda	Evening primrose oil, refined	140700202	1
Evonik/Sanacorp	Evening primrose oil, refined	1911009-01	1
Fa. Franz Thome	Shea butter, refined	1205355	2
Fagron	Olive oil, native		1
Fagron	Almond oil, refined	1000004431	1
Fagron	Borage oil, refined, stabili...	1000007871	1
Fagron	Oleyl oleate (stabilised)	11I08-N03	1
Fagron	Shea butter, refined	11J07-N08	1
Fagron	Oleyl oleate (stabilised)	11l08-N03	1
Fagron	Evening primrose oil, refined	1205023-02	1
Fagron	Shea butter, refined	121273	2
Fagron	Evening primrose oil, refined	12325101	2
Fagron	Almond oil, refined	12345	1
Fagron	Olive oil, native	1234567	1
Fagron	Olive oil, native	1235	1
Fagron	Sesame oil, refined	124494	2
Fagron	Almond oil, refined	126520	1
Fagron	Olive oil, native	129189	1
Fagron	Peanut oil, refined	12A05-N05	1
Fagron	Olive oil, native	12A18-N08	2
Fagron	Almond oil, refined	12A18-N09	1
Fagron	Peanut oil, refined	12c30-n02	1
Fagron	Peanut oil, refined	12C30-N02	1
Fagron	Evening primrose oil, refined	12e23-N06	1
Fagron	Avocado oil, refined	12F25-N12	1
Fagron	Shea butter, refined	12g12-n14	1
Fagron	Shea butter, refined	12G12-N14	1
Fagron	Codliver oil (type A)	12H15-N02	2
Fagron	Almond oil, refined	12H23-N01	1
Fagron	Avocado oil, refined	12H24-N02	1
Fagron	Peanut oil, refined	12H31-N05	4
Fagron	Olive oil, native	12I07-N07	2
Fagron	Peanut oil, refined	12J23-N01	2
Fagron	Peanut oil, refined	12J23-NO1	1
Fagron	Almond oil, refined	12J26-N05	1
Fagron	Olive oil, native	12l07-N07	1
Fagron	Olive oil, native	13010904	1
Fagron	Olive oil, native	130190	2
Fagron	Borage oil, refined, stabili...	130402	4
Fagron	Peanut oil, refined	130723	1
Fagron	Peanut oil, refined	131943	2
Fagron	Almond oil, refined	13236411	1
Fagron	Olive oil, native	133026	2
Fagron	Peanut oil, refined	133498	1
Fagron	Almond oil, refined	13350001	2
Fagron	Avocado oil, refined	13361406	1
Fagron	Olive oil, native	139812	1
Fagron	Shea butter, refined	13C04-N01	5
Fagron	Olive oil, native	13c08-N06	1
Fagron	Olive oil, native	13C08-N06	5
Fagron	Almond oil, refined	13C25-N20	1
Fagron	Wheatgerm oil, refined	13D22-N13	1
Fagron	Evening primrose oil, refined	13E06-N09	3
Fagron	Evening primrose oil, refined	13E06-No9	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Olive oil, native	13G18-B08	1
Fagron	Olive oil, native	13G18-B08-286424	3
Fagron	Peanut oil, refined	13g30-n05	1
Fagron	Peanut oil, refined	13G30-N05	7
Fagron	Peanut oil, refined	13G30-NO5	1
Fagron	Olive oil, native	13J25-B04	1
Fagron	Olive oil, native	13J25-B04-289441	3
Fagron	Peanut oil, refined	13j25b06291837	1
Fagron	Peanut oil, refined	13J25B06291837	1
Fagron	Peanut oil, refined	13J25-B06-291838	4
Fagron	Almond oil, refined	13K28-B01-288270	1
Fagron	Peanut oil, refined	14/10-B07-300426	1
Fagron	Peanut oil, refined	14/10-B07-300438	1
Fagron	Peanut oil, refined	14033601	1
Fagron	Peanut oil, refined	1410-B07-300438	1
Fagron	Peanut oil, refined	14246901	1
Fagron	Jojoba Oil, native	14284202	1
Fagron	Peanut oil, refined	14355904	2
Fagron	Evening primrose oil, refined	145691	1
Fagron	Borage oil, refined, stabili…	14A20-B03	1
Fagron	Olive oil, native	14B12-B06	1
Fagron	Oleyl oleate (stabilised)	14B14-B03-29219	1
Fagron	Oleyl oleate (stabilised)	14B14-B03-29295	1
Fagron	Evening primrose oil, refined	14C07-801-291800	1
Fagron	Evening primrose oil, refined	14C07-B01-291800	1
Fagron	Peanut oil, refined	14D11-B05-294672	2
Fagron	Peanut oil, refined	14D11-B05-294677	5
Fagron	Almond oil, refined	14D24-B07	1
Fagron	Almond oil, refined	14D24-B07-302332	1
Fagron	Almond oil, refined	14F04-B01	2
Fagron	Almond oil, refined	14F04B01294722	1
Fagron	Olive oil, native	14G08-B02-300074	5
Fagron	Evening primrose oil, refined	14H18-B04-297707	3
Fagron	Peanut oil, refined	14I10-B07-300438	3
Fagron	Peanut oil, refined	14I-10B07-300438	1
Fagron	Almond oil, refined	14J01-B03	1
Fagron	Almond oil, refined	14J01-B03-302327	2
Fagron	Evening primrose oil, refined	1506001-01	2
Fagron	Almond oil, refined	15127303	1
Fagron	Almond oil, refined	15127306	1
Fagron	Olive oil, native	15216308	1
Fagron	Olive oil, native	15216309	1
Fagron	Peanut oil, refined	15331506	1
Fagron	Olive oil, native	15399702	1
Fagron	Almond oil, refined	15409702	1
Fagron	Almond oil, refined	15409705	1
Fagron	Almond oil, refined	15409707	1
Fagron	Oleyl oleate (stabilised)	15410204	1
Fagron	Evening primrose oil, refined	15417803	3
Fagron	Olive oil, native	15A27-B03	1
Fagron	Olive oil, native	15A27-B03-304709	6
Fagron	Peanut oil, refined	15B11B02304989	2
Fagron	Evening primrose oil, refined	15C02-B99-305094	1
Fagron	Peanut oil, refined	15E07-B04	1
Fagron	Peanut oil, refined	15E07-B04-308779	2
Fagron	Almond oil, refined	15F04-B01	2
Fagron	Almond oil, refined	15F04-B01-309291	4
Fagron	Almond oil, refined	15H03-B07-314457	3
Fagron	Soy lecithin, liquid	1604034-01	2
Fagron	Peanut oil, refined	16071105	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Grape seed oil, refined	16092401	1
Fagron	Sesame oil, refined	16312505	2
Fagron	Almond oil, refined	16A05-B02	1
Fagron	Almond oil, refined	16A05-B02-320278	1
Fagron	Peanut oil, refined	16A27B04322519	1
Fagron	Peanut oil, refined	16A27-B04-322519	2
Fagron	Olive oil, native	16K24-01-329002	1
Fagron	Olive oil, native	16K24-B01-329002	2
Fagron	Almond oil, refined	16K30-B06	1
Fagron	Almond oil, refined	16K30-B07	1
Fagron	Almond oil, refined	16K30B07328711	1
Fagron	Almond oil, refined	16K30-B07-328711	1
Fagron	Almond oil, refined	17042203	1
Fagron	Peanut oil, refined	17042802	1
Fagron	Almond oil, refined	1707007-01	1
Fagron	Peanut oil, refined	17169018	1
Fagron	Sunflower oil, refined	17242101	2
Fagron	Evening primrose oil, refined	17255801	3
Fagron	Olive oil, native	17361101	1
Fagron	Peanut oil, refined	17A10-B01-332760	4
Fagron	Peanut oil, refined	17A10-B01-335073	2
Fagron	Peanut oil, refined	17K16-B07-344245	4
Fagron	Peanut oil, refined	17K16-B07-347994	2
Fagron	Olive oil, native	18003205	2
Fagron	Evening primrose oil, refined	18009106	2
Fagron	Evening primrose oil, refined	1803006-01	1
Fagron	Evening primrose oil, refined	1803006-02	1
Fagron	Almond oil, refined	18184109	1
Fagron	Almond oil, refined	18184113	3
Fagron	Olive oil, native	18208106	1
Fagron	Peanut oil, refined	18208202	1
Fagron	Evening primrose oil, refined	18216203	2
Fagron	Evening primrose oil, refined	18216208	2
Fagron	Shea butter, refined	18222305	2
Fagron	Soy oil, refined	18A-B04-525705	1
Fagron	Peanut oil, refined	18D13-B01-352516	4
Fagron	Peanut oil, refined	18G28B01354810	2
Fagron	Peanut oil, refined	18G28-B01-354810	2
Fagron	Almond oil, refined	18J08-B02	1
Fagron	Almond oil, refined	18J08-B02-360871	1
Fagron	Peanut oil, refined	18K23-B01-357637	1
Fagron	Olive oil, native	19001848	1
Fagron	Peanut oil, refined	19E17-B01	1
Fagron	Peanut oil, refined	19E17B01-362264	1
Fagron	Peanut oil, refined	19E17-B01-362264	2
Fagron	Peanut oil, refined	19J18-F01-365916	7
Fagron	Peanut oil, refined	20G28-F07-373623	3
Fagron	Almond oil, refined	281040	2
Fagron	Olive oil, native	284144	2
Fagron	Almond oil, refined	2ob03-f04-369480	1
Fagron	Olive oil, native	301805	5
Fagron	Olive oil, native	329002	1
Fagron	Peanut oil, refined	5012A-01954	1
Fagron	Codliver oil (type A)	5029209	1
Fagron	Jojoba Oil, native	5194301	1
Fagron	Peanut oil, refined	5314601	1
Fagron	Almond oil, refined	5438301	2
Fagron	Almond oil, refined	5615001	3
Fagron	Oleyl oleate (stabilised)	725016	1
Fagron	Oleyl oleate (stabilised)	7858448	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Codliver oil (type A)	8002338002	1
Fagron	Almond oil, refined	8002675001	2
Fagron	Almond oil, refined	8003167001	1
Fagron	Olive oil, native	8004194001	1
Fagron	Almond oil, refined	8004548002	1
Fagron	Peanut oil, refined	8004597002	2
Fagron	Peanut oil, refined	F01-3659106	1
Fagron	Grape seed oil, refined	N0000006050	2
Fagron	Peanut oil, refined	P101P102P103	1
Farfalla Essen/ Bahnhof...	Shea butter, refined	FA0130140	1
Fargo/Anzag	Evening primrose oil, refined	1704018-01	3
Fargon/Gehe	Almond oil, refined	17207905	1
Fargon/Gehe	Sesame oil, refined	5872901	1
Fargon/Phoenix	Peanut oil, refined	12A05-N05	1
Fargon/Sanacorp	Evening primrose oil, refined	18216211	1
Fargon	Peanut oil, refined	16J31-B05-329905	1
Fargon	Olive oil, native	17236501	1
Fargron	Evening primrose oil, refined	13E06-N09	1
Fiebig 02.10.12 ek: 5,13EUR	Peanut oil, refined	5231601	1
Fiebig 12.07.13 EK15,38...	Evening primrose oil, refined	1210012-02	1
Fiebig 21.02.13 ek: 2,16EUR	Almond oil, refined	130145	1
Fiebig/EuRho	Evening primrose oil, refined	2003029-01	1
Fiebig/Henr Lamotte	Codliver oil (type A)	8004742003	3
Fiebig/Lamotte	Almond oil, refined	1000013112	1
Fiebig/Lamotte	Sesame oil, refined	7316137	1
Fiebig/Medesign	Sesame oil, refined	689299	1
FIEBIG/SANMARK LIMITED	Evening primrose oil, refined	1803006-01	1
Fiebig	Sesame oil, refined	1000003864	1
Fiebig	Olive oil, native	12077702	1
Fiebig	Jojoba Oil, native	15116904	2
Fiebig	Evening primrose oil, refined	1512005-02	1
Fiebig	Olive oil, native	15399704	1
Fiebig	Jojoba Oil, native	16070609	3
Fiebig	Olive oil, native	1608006-02	1
Fiebig	Evening primrose oil, refined	16281301	1
Fiebig	Borage oil, refined, stabili...	17055401	1
Fiebig	Jojoba Oil, native	17073309	2
Fiebig	Evening primrose oil, refined	1710011-02	4
Fiebig	Almond oil, refined	1716508	1
Fiebig	Olive oil, native	17236501	2
Fiebig	Olive oil, native	17236502	1
Fiebig	Evening primrose oil, refined	17255801	2
Fiebig	Evening primrose oil, refined	17255803	1
Fiebig	Wheatgerm oil, refined	17290301	2
Fiebig	Sesame oil, refined	17332103	1
Fiebig	Almond oil, refined	18004502	1
Fiebig	Wheatgerm oil, refined	18009501	1
Fiebig	Wheatgerm oil, refined	18009505	1
Fiebig	Peanut oil, refined	18014405	1
Fiebig	Evening primrose oil, refined	1803006-01	1
Fiebig	Avocado oil, refined	18044905	2
Fiebig	Avocado oil, refined	18044914	1
Fiebig	Jojoba Oil, native	18057107	3
Fiebig	Almond oil, refined	18070603	1
Fiebig	Olive oil, native	18208101	1
Fiebig	Olive oil, native	18208106	1
Fiebig	Peanut oil, refined	18208202	1
Fiebig	Evening primrose oil, refined	18216206	1
Fiebig	Almond oil, refined	18295903	1
Fiebig	Almond oil, refined	18295914	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Peanut oil, refined	18296002	1
Fiebig	Olive oil, native	20003049003	1
Fiebig	Olive oil, native	310866	1
Fiebig	Codliver oil (type A)	80000918001	1
Fiebig	Codliver oil (type A)	8001176004	1
Fiebig	Peanut oil, refined	800143002	1
Fiebig	Olive oil, native	8001431001	1
Fiebig	Olive oil, native	8001948002	1
Fiebig	Codliver oil (type A)	8002338002	5
Fiebig	Codliver oil (type A)	8002468002	9
Fiebig	Olive oil, native	8002656001	1
Fiebig	Olive oil, native	8003420001	1
Fiebig	Codliver oil (type A)	800372001	1
Fiebig	Codliver oil (type A)	8003727001	3
Fiebig	Jojoba Oil, native	8003732001	3
Fiebig	Almond oil, refined	8003885002	2
Fiebig	Codliver oil (type A)	8003906001	4
Fiebig	Codliver oil (type A)	8003906002	8
Fiebig	Olive oil, native	8004251002	2
Fiebig	Codliver oil (type A)	8004742002	4
Fiebig	Evening primrose oil, refined	EP74611-1	1
FiebigLamotte	Jojoba Oil, native	1000011858	1
Finteler Apotheke	Evening primrose oil, refined	1703020-01	1
Finteler Apotheke	Almond oil, refined	8002653001	1
Fischar	Almond oil, refined	5438301	2
Fischar	Peanut oil, refined	5904100001	2
Fischar	Sunflower oil, refined	8004142001	1
Fischer/Gehe	Almond oil, refined	15127306	1
Frago/Gehe	Olive oil, native	16K24-B01-329002	2
Frago/Noweda	Olive oil, native	16K24-B01	1
Franz Thome	Shea butter, refined	400-15	1
Gall Pharma	Codliver oil (type A)		1
GallPharma/Phoenix	Codliver oil (type A)	V-00010519	1
Gatt-Koller	Jojoba Oil, native		1
Gatt-Koller	Jojoba Oil, native	1801970	4
Gatt-Koller	Avocado oil, refined	1803162	5
Gatt-Koller	Sesame oil, refined	1803403	2
Gatt-Koller	Evening primrose oil, refined	1803525	2
Gatt-Koller	Almond oil, refined	1803713	1
Gatt-Koller	Peanut oil, refined	1900111	1
Gatt-Koller	Avocado oil, refined	1900505	1
Gatt-Koller	Almond oil, refined	1900551	1
Gatt-Koller	Olive oil, native	1900963	1
Gehe - Lamotte	Soy lecithin, liquid	1305019-01	1
Gehe - Lamotte	Olive oil, native	5271504	1
Gehe - Lamotte	Almond oil, refined	5438302	1
Gehe - Lamotte	Olive oil, native	5470202	1
Gehe - Lamotte	Olive oil, native	5623601	1
Gehe - Lamotte	Olive oil, native	5671601	2
Gehe / 23.01.13 Henry L...	Sesame oil, refined	122972	1
Gehe / Vertanical	Sesame oil, refined	SOE1000016920	1
Gehe / Weltecke	Evening primrose oil, refined		1
GEHE 11.05.	Almond oil, refined	15078404	1
gehe 15.01.2014	Avocado oil, refined	1305046-01	1
Gehe 22.12.14	Almond oil, refined	14215808	1
Gehe 5.03.15	Evening primrose oil, refined	1407002-02	1
Gehe amax	Almond oil, refined	1000012126	1
Gehe amax	Peanut oil, refined	15331503	1
Gehe amax	Almond oil, refined	16327302	1
Gehe amax	Olive oil, native	18003205	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe amax	Almond oil, refined	18070605	1
Gehe amax	Almond oil, refined	18184114	2
Gehe amax	Olive oil, native	19000227	1
Gehe amax	Olive oil, native	19002974	2
Gehe amax	Olive oil, native	20180713	1
Gehe amax	Olive oil, native	294034	1
Gehe amax	Olive oil, native	304113	1
Gehe amax	Olive oil, native	308230	1
Gehe amax	Olive oil, native	310868	1
Gehe amax	Almond oil, refined	5919600001	1
Gehe Kassel	Almond oil, refined	14215814	1
Gehe Laborchemie Apolda…	Jojoba Oil, native	13011202	1
gehe/ cealo	Peanut oil, refined	15015104	1
Gehe/ EuRho	Peanut oil, refined	192485006	1
Gehe/ Lamotte	Almond oil, refined	8004039003	1
Gehe/Caesar & Loretz GmbH	Almond oil, refined	21002363009	1
Gehe/CaneaPharma	Shea butter, refined	SB1827	1
Gehe/EuRho	Evening primrose oil, refined	1704018-01	5
Gehe/Hedinger	Olive oil, native	306950	1
Gehe/Henry Lamotte Oils…	Codliver oil (type A)	119929	1
Gehe/Henry Lamotte Oils…	Almond oil, refined	5615001	2
Gehe/Henry Lamotte Oils	Almond oil, refined	1000012126	2
Gehe/Henry Lamotte	Almond oil, refined	1000004431	1
gehe/Henry Lamotte	Almond oil, refined	1000017183	1
Gehe/Henry Lamotte	Codliver oil (type A)	8002338002	2
Gehe/Henry Lamotte	Codliver oil (type A)	8002468002	1
Gehe/Henry Lamotte	Almond oil, refined	8003503002	1
Gehe/Henry Lamotte	Almond oil, refined	8005803006	1
Gehe/Henry Lamotte	Almond oil, refined	8007584001	1
Gehe/henry	Almond oil, refined	8000915002	1
Gehe/henry	Olive oil, native	8001431001	1
Gehe/L10	Evening primrose oil, refined	1803006-01	1
Gehe/Lamotte	Almond oil, refined		1
Gehe/Lamotte	Almond oil, refined	1000010093	1
Gehe/Lamotte	Almond oil, refined	8002653001	1
Gehe/Lamotte	Almond oil, refined	8003167001	2
Gehe/Lamotte	Almond oil, refined	8003503001	1
Gehe/Lamotte	Almond oil, refined	8003885002	2
Gehe/Lamotte	Almond oil, refined	8004390001	2
Gehe/Lamotte	Codliver oil (type A)	8004742002	2
Gehe/lamotte	Almond oil, refined	8007584001	1
Gehe/Spinnrad	Apricot kernel oil, refined	919301012	1
Gehe/Vitalhaus	Flaxseed oil, native	160702	1
Gehe	Olive oil, native		1
Gehe	Almond oil, refined	1000010093	1
Gehe	Sesame oil, refined	1000015599	3
Gehe	Shea butter, refined	11079802	1
Gehe	Evening primrose oil, refined	1109004-02	1
Gehe	Sunflower oil, refined	11126606	1
Gehe	Shea butter, refined	11346509	1
Gehe	Olive oil, native	11C16-N08	1
GEHE	Almond oil, refined	12019	1
Gehe	Borage oil, refined, stabili…	12027008	1
Gehe	Evening primrose oil, refined	12032908	1
Gehe	Flaxseed oil, native	12041701	1
Gehe	Peanut oil, refined	12041902	1
Gehe	Evening primrose oil, refined	1205023-02	1
Gehe	Evening primrose oil, refined	121112906	1
Gehe	Evening primrose oil, refined	12112906	1
Gehe	Grape seed oil, refined	12149204	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Borage oil, refined, stabili…	12161203	1
Gehe	Oleyl oleate (stabilised)	12220207	1
Gehe	Sesame oil, refined	122972	1
Gehe	Evening primrose oil, refined	12325106	1
Gehe	Evening primrose oil, refined	12325110	1
Gehe	Evening primrose oil, refined	12325113	1
Gehe	Flaxseed oil, native	124337	2
Gehe	Olive oil, native	12I07-N07	1
Gehe	Olive oil, native	13010911	1
GEHE	Almond oil, refined	13178003	1
Gehe	Almond oil, refined	13178004	1
Gehe	Almond oil, refined	13236403	1
Gehe	Jojoba Oil, native	13287709	1
Gehe	Peanut oil, refined	13306103	1
Gehe	Peanut oil, refined	13306106	1
Gehe	Olive oil, native	13350103	1
Gehe	Sesame oil, refined	13397402	1
Gehe	Evening primrose oil, refined	140002501	1
Gehe	Evening primrose oil, refined	14010904	1
Gehe	Peanut oil, refined	14115405	1
Gehe	Avocado oil, refined	14170105	1
Gehe	Laurel oil	14196705	1
Gehe	Almond oil, refined	14215809	1
Gehe	Oleyl oleate (stabilised)	14254503	1
Gehe	Evening primrose oil, refined	1425617	1
Gehe	Evening primrose oil, refined	14258610	1
Gehe	Evening primrose oil, refined	14258616	1
Gehe	Jojoba Oil, native	14284208	1
Gehe	Peanut oil, refined	14355904	1
Gehe	Peanut oil, refined	15015103	1
Gehe	Peanut oil, refined	15015104	2
Gehe	Almond oil, refined	15078404	1
Gehe	Almond oil, refined	15078405	1
Gehe	Laurel oil	15097501	1
Gehe	Evening primrose oil, refined	15171102	1
Gehe	Evening primrose oil, refined	15171110	2
Gehe	Almond oil, refined	15197401	1
Gehe	Almond oil, refined	15197402	1
Gehe	Almond oil, refined	15197409	1
Gehe	Almond oil, refined	15197412	1
Gehe	Peanut oil, refined	15273402	1
Gehe	Sunflower oil, refined	15296303	1
Gehe	Peanut oil, refined	15331503	3
Gehe	Jojoba Oil, native	15409903	2
Gehe	Evening primrose oil, refined	15417801	1
Gehe	Evening primrose oil, refined	15417805	1
Gehe	Evening primrose oil, refined	15417806	1
Gehe	Evening primrose oil, refined	15417808	1
GEHE	Evening primrose oil, refined	1605027-01	1
Gehe	Jojoba Oil, native	16070602	1
Gehe	Almond oil, refined	16071007	1
Gehe	Peanut oil, refined	16071101	1
Gehe	Peanut oil, refined	16071102	1
Gehe	Peanut oil, refined	16071103	1
Gehe	Olive oil, native	16212801	1
Gehe	Peanut oil, refined	16249502	3
GEHE	Borage oil, refined, stabili…	16266011	1
Gehe	Sunflower oil, refined	16275804	1
Gehe	Evening primrose oil, refined	16281306	1
Gehe	Evening primrose oil, refined	16281309	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Almond oil, refined	16327302	1
GEHE	Almond oil, refined	16327302	1
Gehe	Almond oil, refined	16327308	3
Gehe	Evening primrose oil, refined	1704018-01	3
GEHE	Evening primrose oil, refined	1704018-01	1
Gehe	Almond oil, refined	17042203	3
GEHE	Almond oil, refined	17042203	1
Gehe	Almond oil, refined	17042204	1
Gehe	Peanut oil, refined	17042802	1
GEHE	Peanut oil, refined	17042802	2
Gehe	Evening primrose oil, refined	1710011-01	2
GEHE	Evening primrose oil, refined	1710011-01	1
Gehe	Evening primrose oil, refined	1710011-02	1
Gehe	Peanut oil, refined	17169010	1
Gehe	Almond oil, refined	17176501	1
Gehe	Almond oil, refined	17207905	1
Gehe	Flaxseed oil, native	17236401	2
Gehe	Evening primrose oil, refined	17255801	1
Gehe	Evening primrose oil, refined	17255802	1
GEHE	Borage oil, refined, stabili…	17307801	1
Gehe	Peanut oil, refined	17328601	1
Gehe	Oleyl oleate (stabilised)	17358103	1
Gehe	Olive oil, native	17361101	1
GEHE	Olive oil, native	17361101	1
Gehe	Almond oil, refined	18000342	1
GEHE	Wheatgerm oil, refined	18000524	1
GEHE	Olive oil, native	18002118	1
Gehe	Olive oil, native	18003205	1
Gehe	Olive oil, native	18005453	1
Gehe	Almond oil, refined	18006808	1
Gehe	Evening primrose oil, refined	18009102	1
Gehe	Evening primrose oil, refined	18009106	1
Gehe	Evening primrose oil, refined	18009109	2
GEHE	Evening primrose oil, refined	18009111	1
Gehe	Evening primrose oil, refined	18009115	3
Gehe	Peanut oil, refined	18014405	1
GEHE	Almond oil, refined	18015007	1
Gehe	Almond oil, refined	18015008	2
GEHE	Almond oil, refined	18015008	1
Gehe	Evening primrose oil, refined	1803006-02	1
Gehe	Soy lecithin, liquid	1803030-1	1
Gehe	Avocado oil, refined	18044908	3
Gehe	Avocado oil, refined	18044913	1
GEHE	Grape seed oil, refined	18065201	1
Gehe	Almond oil, refined	1807007-01	1
Gehe	Almond oil, refined	18070602	1
GEHE	Almond oil, refined	18070602	1
GEHE	Almond oil, refined	18184102	1
Gehe	Almond oil, refined	18184108	1
Gehe	Almond oil, refined	18184113	1
GEHE	Almond oil, refined	18184113	3
Gehe	Codliver oil (type A)	18184501	1
Gehe	Olive oil, native	18208101	1
Gehe	Olive oil, native	18208102	1
Gehe	Olive oil, native	18208106	1
Gehe	Peanut oil, refined	18208202	1
GEHE	Evening primrose oil, refined	18216203	1
GEHE	Evening primrose oil, refined	18216215	1
GEHE	Shea butter, refined	18222305	1
GEHE	Wheatgerm oil, refined	18241002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Oleyl oleate (stabilised)	18272005	1
Gehe	Decyl oleate	18282506	1
GEHE	Almond oil, refined	18295902	1
Gehe	Peanut oil, refined	18296001	1
Gehe	Peanut oil, refined	18296002	1
GEHE	Peanut oil, refined	18296002	1
Gehe	Peanut oil, refined	18296007	1
Gehe	Avocado oil, refined	18306801	1
Gehe	Olive oil, native	18311906	1
Gehe	Olive oil, native	19000227	2
Gehe	Olive oil, native	19001848	1
Gehe	Olive oil, native	19002974	1
Gehe	Evening primrose oil, refined	1901046-01	1
GEHE	Almond oil, refined	19084511	1
Gehe	Evening primrose oil, refined	19164407	2
Gehe	Evening primrose oil, refined	19175401	1
Gehe	Olive oil, native	19212005	1
Gehe	Peanut oil, refined	19245006	1
Gehe	Borage oil, refined, stabili…	192492003	4
Gehe	Evening primrose oil, refined	192982001	2
Gehe	Evening primrose oil, refined	192982004	1
Gehe	Olive oil, native	20000171	1
Gehe	Corn oil, refined	20000641001	1
Gehe	Olive oil, native	20003375	1
Gehe	Olive oil, native	20005601	2
Gehe	Evening primrose oil, refined	2001052004	1
Gehe	Evening primrose oil, refined	21000915008	1
Gehe	Almond oil, refined	21003729003	1
Gehe	Soy lecithin, liquid	21022111/2	1
Gehe	Olive oil, native	22000660	1
Gehe	Evening primrose oil, refined	22001284006	1
Gehe	Codliver oil (type A)	2613A-01985	1
Gehe	Olive oil, native	265359	1
Gehe	Olive oil, native	267376	1
Gehe	Olive oil, native	269674	2
Gehe	Olive oil, native	277050	2
Gehe	Olive oil, native	278583	1
Gehe	Olive oil, native	279609	1
Gehe	Olive oil, native	281209	2
Gehe	Olive oil, native	282963	2
Gehe	Olive oil, native	284144	1
Gehe	Olive oil, native	288752	1
Gehe	Olive oil, native	289094	1
Gehe	Olive oil, native	297565	1
Gehe	Olive oil, native	298007	2
Gehe	Olive oil, native	298008	1
Gehe	Olive oil, native	305002	1
GEHE	Olive oil, native	305002	1
Gehe	Olive oil, native	305003	2
Gehe	Olive oil, native	306950	1
GEHE	Olive oil, native	308229	1
gehe	Peanut oil, refined	310007	1
Gehe	Olive oil, native	310868	1
Gehe	Olive oil, native	5107101	1
Gehe	Codliver oil (type A)	5437202	1
Gehe	Olive oil, native	5470202	1
Gehe	Almond oil, refined	5615003	1
Gehe	Almond oil, refined	5669601	1
Gehe	Almond oil, refined	5703001	1
Gehe	Codliver oil (type A)	5737704	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Almond oil, refined	5748601	2
Gehe	Almond oil, refined	5919600001	1
Gehe	Almond oil, refined	7315801	1
Gehe	Almond oil, refined	8000712001	2
Gehe	Codliver oil (type A)	8000918001	1
Gehe	Codliver oil (type A)	8002338002	3
Gehe	Olive oil, native	8002366001	1
Gehe	Almond oil, refined	8003885002	1
Gehe	Almond oil, refined	8004548002	1
Gehe	Almond oil, refined	8005803006	1
Gehe	Almond oil, refined	8005803007	1
Gehe	Almond oil, refined	8008836001	1
Gehe	Evening primrose oil, refined	EP713711-1	1
Gehe	Evening primrose oil, refined	EP745611-1	1
Gehe	Evening primrose oil, refined	L416	1
Gehe28.12..18	Evening primrose oil, refined	18216202	1
Gehe-Henry	Olive oil, native	8002026001	1
Gehe-Henry	Olive oil, native	8002366001	1
Geibo/EuRho 26.5.21	Evening primrose oil, refined	2008037-02	1
Geibo/EuRho 28.10.21	Evening primrose oil, refined	2105001-01	2
Geibo/EuRho 4.6.21	Evening primrose oil, refined	2008037-01	1
GMP-konforn	Codliver oil (type A)	8007109001	6
Grau / Sanacorp	Almond oil, refined	18015007	1
Greenvalley	Evening primrose oil, refined		1
greenvalley	Evening primrose oil, refined	4000537	1
GUMO	Almond oil, refined	1000012126	1
GUMO	Peanut oil, refined	100015783	1
Gumo	Olive oil, native	17001926	1
GUMO	Almond oil, refined	8005803006	1
GUMO	Almond oil, refined	8005936002	4
GUMO	Almond oil, refined	8007584002	1
H. Lamotte/ Gehe	Olive oil, native	8003801001	1
H. Lamotte/Gehe	Olive oil, native	1000016418	1
H. Lamotte/gehe	Codliver oil (type A)	8003906001	1
H. Lamotte/gehe	Codliver oil (type A)	8005296002	1
H. Lamotte/Noweda	Almond oil, refined	1000002454	1
H. Lamotte/Noweda	Codliver oil (type A)	119929	2
H. Lamotte/Noweda	Almond oil, refined	5615003	1
H. Lamotte/Noweda	Olive oil, native	5671901	1
H. Lamotte/Noweda	Almond oil, refined	8000712001	2
H. Lamotte/Sanacorp	Peanut oil, refined	1000012961	1
H. Lamotte/Sanacorp	Avocado oil, refined	100001532	1
H. Lamotte	Almond oil, refined	5177001	2
H.Lamotte / Anzag	Almond oil, refined	5438302	1
H.Lamotte / Gehe	Avocado oil, refined	1000005537	1
H.Lamotte / Gehe	Almond oil, refined	8003167001	1
H.Lamotte / Gehe	Almond oil, refined	8004548002	1
H.Lamotte Oils/Gehe/05....	Peanut oil, refined	1000014700	1
H.Lamotte/anzag 10.01.20	Jojoba Oil, native	1000011858	1
H.Lamotte/Anzag 16.04.19	Jojoba Oil, native	8003732001	2
H.Lamotte/Anzag 16.10.17	Jojoba Oil, native	8002391001	8
H.Lamotte/Anzag 18.11.16	Jojoba Oil, native	8000469001	3
H.Lamotte/anzag 30.12.16	Jojoba Oil, native	5913600001	2
H.Lamotte/Anzag	Almond oil, refined	5438302	1
H.Lamotte/Ebert	Sesame oil, refined	1000005858	1
H.Lamotte/Noweda	Almond oil, refined	1000013112	1
H.Lamotte/Noweda	Peanut oil, refined	1034	1
H.Lamotte/Noweda	Almond oil, refined	130145	2
H.Lamotte/Noweda	Almond oil, refined	5214206	1
H.Lamotte/Noweda	Codliver oil (type A)	5228001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
H.Lamotte/Noweda	Codliver oil (type A)	5228004	1
H.Lamotte/Noweda	Peanut oil, refined	5231601	1
H.Lamotte/Noweda	Olive oil, native	5232201	1
H.Lamotte/Noweda	Almond oil, refined	5269301	2
H.Lamotte/Noweda	Almond oil, refined	5415901	1
H.Lamotte/Noweda	Almond oil, refined	5438301	2
H.Lamotte/Noweda	Almond oil, refined	5438302	2
H.Lamotte/Noweda	Olive oil, native	5470202	1
H.Lamotte/Noweda	Peanut oil, refined	5473601	1
H.Lamotte/Noweda	Almond oil, refined	5615001	3
H.Lamotte/Noweda	Peanut oil, refined	5699601	1
H.Lamotte/Noweda	Almond oil, refined	5748601	2
H.Lamotte/Noweda	Codliver oil (type A)	5878701	1
H.Lamotte/Noweda	Peanut oil, refined	5904100001	1
H.Lamotte/Noweda	Almond oil, refined	5919600001	1
H.Lamotte	Flaxseed oil, native	1000009024	1
H.Lamotte	Olive oil, native	1000010861	1
H.Lamotte	Peanut oil, refined	1000013880	1
H.Lamotte	Almond oil, refined	1000017183	1
H.Lamotte	Almond oil, refined	8003885002	1
H.Lamotte	Codliver oil (type A)	8003906002	1
Hanry Lamotte Oils / No…	Flaxseed oil, native	1000000878	1
Hanry Lamotte Oils / No…	Almond oil, refined	8000915001	1
Hanry Lamotte Oils GmbH	Peanut oil, refined	1000010888	1
Hanry Lamotte oils GmbH	Peanut oil, refined	1000013880	1
Hanry Lamotte oils GmbH	Peanut oil, refined	1000014700	1
Hanry Lamotte oils GmbH	Peanut oil, refined	1000017094	1
Hanry Lamotte oils GmbH	Almond oil, refined	8005803006	1
Hanry Lamotte Oils	Codliver oil (type A)	2101204	1
Hänseler	Evening primrose oil, refined		7
Hedinger / Anzag	Almond oil, refined	8005936002	2
Hedinger/ Noweda	Almond oil, refined	14139311	1
Hedinger/Noweda	Sesame oil, refined	1000005858	1
Hedinger	Almond oil, refined	1000004431	1
Hedinger	Evening primrose oil, refined	14010915	5
Hedinger	Peanut oil, refined	14355903	1
Hedinger	Jojoba Oil, native	15409903	1
Hedinger	Peanut oil, refined	18296002	1
Hedinger	Avocado oil, refined	18306803	2
Hedinger	Codliver oil (type A)	8000601001	1
hen	Olive oil, native	8001648001	1
hennry Lamotte oils	Almond oil, refined	8002675001	1
hennry Lamotte oils	Almond oil, refined	8003503001	1
Hennry Lamotte/Noweda	Almond oil, refined	8003503001	1
Henr	Sesame oil, refined	123826	1
Henra Lamotte/Jenne	Almond oil, refined	1000012126	2
Henra Lamotte/Jenne	Almond oil, refined	1000013565	2
Henra Lamotte/Jenne	Almond oil, refined	8005803006	1
Henra Lamotte/Jenne	Almond oil, refined	8005803007	1
Henra Lamotte/Jenne	Almond oil, refined	8005936002	2
Henry Lamotte Oils GmbH	Almond oil, refined	1000012126	2
Henry Lamotte Oils GmbH	Almond oil, refined	1000013565	2
Henry Lamotte Oils GmbH	Codliver oil (type A)	8005296003	1
Henry Lamotte Oils GmbH	Almond oil, refined	8005803006	1
Henry Lamotte Oils GmbH	Almond oil, refined	8005803007	1
Henry L/Spangro	Olive oil, native	8003420001	1
Henry La Motte	Almond oil, refined	5748601	2
Henry Lam./ Phönix	Almond oil, refined	5438302	1
Henry Lamortte	Olive oil, native	1000011651	1
Henry Lamote Oils GmbH	Avocado oil, refined	8001641001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamott/Gehe	Almond oil, refined	8004548002	1
Henry Lamotte / Noweda...	Olive oil, native	1000014032	2
Henry Lamotte / Noweda...	Almond oil, refined	8004548011	1
Henry Lamotte / Sanaco...	Almond oil, refined	8007584002	1
Henry Lamotte / Sanaco...	Almond oil, refined	1000010685	1
Henry Lamotte / Sanaco...	Olive oil, native	1000016418	1
Henry Lamotte / Sanaco...	Almond oil, refined	8005803007	1
Henry Lamotte / Sanaco...	Almond oil, refined	8005936002	2
Henry Lamotte / 107	Olive oil, native	1000012341	1
Henry Lamotte / 2	Almond oil, refined	1000010093	3
Henry Lamotte / AHD	Jojoba Oil, native	5756401	1
Henry Lamotte / Allianc...	Peanut oil, refined	1000012961	1
Henry Lamotte / Allianc...	Almond oil, refined	8000915001	2
Henry Lamotte / Anzag	Almond oil, refined	125(8004039003)	1
Henry Lamotte / Anzag	Almond oil, refined	126(8004390001)	1
Henry Lamotte / Anzag	Almond oil, refined	127(8004548002)	1
Henry Lamotte / Anzag	Almond oil, refined	129(8004548011)	1
Henry Lamotte / Anzag	Codliver oil (type A)	5641901	1
Henry Lamotte / Anzag	Codliver oil (type A)	8000918001	2
Henry Lamotte / Gehe	Olive oil, native	1000010861	1
henry lamotte / Gehe	Peanut oil, refined	1000010888	1
Henry Lamotte / GEHE	Peanut oil, refined	1000010888	1
Henry Lamotte / Gehe	Sesame oil, refined	1000011866	2
Henry Lamotte / Gehe	Olive oil, native	8004067001	1
Henry Lamotte / Gehe	Almond oil, refined	8004390001	1
Henry Lamotte / Gehe12	Olive oil, native	8004499001	1
Henry Lamotte / Jenne	Almond oil, refined	1000012126	2
Henry Lamotte / Jenne	Almond oil, refined	1000013565	1
Henry Lamotte / Jenne	Almond oil, refined	132(8005803007)	1
Henry Lamotte / Krieger	Almond oil, refined	8005803006	2
Henry Lamotte / Krieger	Almond oil, refined	8005936002	2
Henry Lamotte / Noweda	Almond oil, refined	1000010685	2
Henry Lamotte / Noweda	Olive oil, native	1000010861	1
Henry Lamotte / Noweda	Sesame oil, refined	1000010906	1
Henry Lamotte / Noweda	Almond oil, refined	1000012126	2
Henry Lamotte / Noweda	Olive oil, native	1000012617	1
Henry Lamotte / Noweda	Peanut oil, refined	1000012961	1
Henry Lamotte / Noweda	Olive oil, native	123773	1
Henry Lamotte / Noweda	Almond oil, refined	5415901	1
Henry Lamotte / Noweda	Sesame oil, refined	5639301	1
Henry Lamotte / Noweda	Almond oil, refined	5703001	1
Henry Lamotte / Noweda	Sesame oil, refined	5872001	2
Henry Lamotte / Noweda	Sesame oil, refined	8000531001	1
Henry Lamotte / Noweda	Almond oil, refined	8000712001	1
Henry Lamotte / Noweda	Almond oil, refined	8000915002	2
Henry Lamotte / Noweda	Almond oil, refined	8001497001	3
Henry Lamotte / Noweda	Sesame oil, refined	8001557002	2
Henry Lamotte / Noweda	Almond oil, refined	8002653001	1
Henry Lamotte / Noweda	Almond oil, refined	8003503001	1
Henry Lamotte / Noweda	Almond oil, refined	8003885002	2
Henry Lamotte / Noweda	Almond oil, refined	8004039003	1
Henry Lamotte / Noweda	Olive oil, native	8004194001	1
Henry Lamotte / Noweda	Almond oil, refined	8004548002	2
Henry Lamotte / Noweda	Almond oil, refined	8004548011	1
Henry Lamotte / Noweda	Almond oil, refined	8007584002	1
Henry Lamotte / Phoenix	Olive oil, native	1000010861	1
Henry Lamotte / Phoenix	Almond oil, refined	1000013112	1
Henry Lamotte / Phoenix	Almond oil, refined	1000013565	1
Henry Lamotte / Phoenix	Peanut oil, refined	1000015783	1
Henry Lamotte / Phoenix	Peanut oil, refined	1000017094	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte / Phoenix	Almond oil, refined	8000915002	1
Henry Lamotte / Phoenix	Almond oil, refined	8005803007	1
Henry Lamotte / Phoenix	Almond oil, refined	8005936002	2
Henry Lamotte / Phoenix	Almond oil, refined	8007584002	1
Henry Lamotte / Phönix	Peanut oil, refined	1000013880	1
Henry Lamotte / Phönix	Almond oil, refined	8001497001	3
Henry Lamotte / Phönix	Codliver oil (type A)	8004742003	1
Henry Lamotte / Phönix	Olive oil, native	8004827001	1
Henry Lamotte / Sanacorp	Peanut oil, refined	1000010888	1
Henry Lamotte / Sanacorp	Peanut oil, refined	1000013880	1
Henry Lamotte / Sanacorp	Almond oil, refined	8003503001	1
Henry Lamotte /	Almond oil, refined	1000012126	2
Henry Lamotte /	Codliver oil (type A)	8005296002	1
Henry Lamotte /	Almond oil, refined	8005936002	1
Henry Lamotte /AHD	Evening primrose oil, refined	1000001044	1
Henry Lamotte /AHD	Evening primrose oil, refined	1000005123	1
Henry Lamotte /Gehe	Almond oil, refined	1000013112	1
Henry Lamotte /Gehe	Peanut oil, refined	1000014700	1
Henry Lamotte /Jenne	Almond oil, refined	128(1000010093)	1
Henry Lamotte /Jenne	Almond oil, refined	131(1000013565)	1
Henry Lamotte /Jenne	Almond oil, refined	220131(1000017183)	1
Henry Lamotte /Jenne	Almond oil, refined	220428(8007461004)	1
Henry Lamotte /Jenne	Almond oil, refined	8005803007	1
Henry Lamotte /Noweda	Almond oil, refined	10000010685	1
Henry Lamotte /Noweda	Almond oil, refined	10000013565	1
Henry Lamotte /Noweda	Flaxseed oil, native	1000015368	1
Henry Lamotte /Phoenix	Almond oil, refined	8001497001	1
Henry Lamotte /Phoenix	Almond oil, refined	8002675001	1
Henry Lamotte /Phoenix	Almond oil, refined	8003885002	1
Henry Lamotte /Phoenix	Almond oil, refined	8004039003	1
Henry Lamotte /Phönix p...	Almond oil, refined	8003167001	1
Henry Lamotte /Phönix p...	Almond oil, refined	8003503001	1
Henry Lamotte Anzag	Codliver oil (type A)	8002468002	1
Henry Lamotte Anzag	Codliver oil (type A)	8003727001	1
Henry Lamotte Anzag	Almond oil, refined	8004039003	1
Henry lamotte Fiebig	Almond oil, refined	1000012126	1
Henry Lamotte GmbH Brem...	Olive oil, native	8003420001	1
Henry Lamotte GmbH Bremen	Borage oil, refined, stabili...	122791	1
Henry Lamotte Gmbh, Mer...	Almond oil, refined	130145	1
Henry Lamotte GmbH/ San...	Jojoba Oil, native	80002391001	1
Henry Lamotte GmbH/ San...	Almond oil, refined	8002653001	1
Henry Lamotte GmbH/Gehe	Almond oil, refined	1000012126	1
Henry Lamotte GmbH/Hold...	Codliver oil (type A)	5228001	1
Henry Lamotte GmbH/Hold...	Peanut oil, refined	5231601	1
Henry Lamotte GmbH/Phönix	Almond oil, refined	1000012126	1
Henry Lamotte GmbH/Phönix	Almond oil, refined	1000013112	2
Henry Lamotte GmbH/Phönix	Almond oil, refined	8003167001	1
Henry Lamotte GmbH/Phönix	Almond oil, refined	8005936002	1
Henry Lamotte GmbH	Almond oil, refined	1000010093	2
Henry Lamotte GmbH	Almond oil, refined	1000012126	1
Henry Lamotte GmbH	Peanut oil, refined	1000012961	1
Henry Lamotte GmbH	Codliver oil (type A)	5228004	1
Henry Lamotte GmbH	Almond oil, refined	5269301	1
Henry Lamotte GmbH	Codliver oil (type A)	5437202	1
Henry Lamotte GmbH	Borage oil, refined, stabili...	5594400001	1
Henry Lamotte GmbH	Jojoba Oil, native	8000469001	3
Henry Lamotte GmbH	Almond oil, refined	8000712001	3
Henry Lamotte GmbH	Almond oil, refined	8001497001	1
Henry Lamotte GmbH	Almond oil, refined	8003167001	1
Henry Lamotte GmbH	Almond oil, refined	8003503001	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte GmbH	Almond oil, refined	8003885002	2
Henry Lamotte GmbH	Almond oil, refined	8004039003	1
Henry Lamotte GmbH	Almond oil, refined	8004390001	1
Henry Lamotte GmbH	Almond oil, refined	8004548011	2
Henry Lamotte GmbH	Codliver oil (type A)	8004742003	1
Henry Lamotte GmbH	Olive oil, native	8004827001	1
Henry Lamotte Noweda	Olive oil, native	1000010861	1
Henry Lamotte Oels GmbH	Flaxseed oil, native	1000005198	1
Henry Lamotte Oels GmbH	Flaxseed oil, native	1000006422	1
Henry Lamotte Oil / Gehe	Peanut oil, refined	8004235001	1
Henry Lamotte Oil	Almond oil, refined	8000915001	1
Henry Lamotte Oil	Almond oil, refined	8000915002	1
henry lamotte oils / Al...	Olive oil, native	1000012617	1
henry lamotte oils / Al...	Almond oil, refined	8004548011	1
henry lamotte oils / Al...	Almond oil, refined	8005803006	1
Henry Lamotte Oils / Gehe	Almond oil, refined	1000002454	1
Henry Lamotte Oils / Gehe	Almond oil, refined	1000003242	1
Henry Lamotte Oils / Gehe	Almond oil, refined	548302	1
Henry Lamotte Oils / Gehe	Almond oil, refined	5615003	2
Henry Lamotte Oils / Gehe	Almond oil, refined	5919600001	3
Henry Lamotte Oils / Gehe	Almond oil, refined	8000915002	2
Henry Lamotte Oils / Gehe	Almond oil, refined	8001497001	1
Henry Lamotte Oils / Gehe	Almond oil, refined	8002653001	3
Henry Lamotte Oils / No...	Almond oil, refined	1000003242	2
Henry Lamotte Oils / No...	Almond oil, refined	5415901	4
Henry Lamotte Oils / No...	Almond oil, refined	8000712001	1
Henry Lamotte Oils / No...	Almond oil, refined	8003885002	1
Henry lamotte Oils /Gehe	Almond oil, refined	1000013112	1
Henry lamotte Oils /Gehe	Almond oil, refined	8005803007	1
Henry Lamotte Oils GmBh...	Almond oil, refined	1000010685	1
Henry Lamotte Oils GmBh...	Olive oil, native	1000011651	2
Henry Lamotte Oils GmBh...	Almond oil, refined	1000013112	1
Henry Lamotte Oils GmBh...	Codliver oil (type A)	8004742003	1
Henry Lamotte Oils GmBh...	Olive oil, native	8004827001	1
Henry Lamotte Oils GmbH...	Almond oil, refined	8000915002	1
Henry Lamotte Oils GmbH...	Olive oil, native	8004251002	1
Henry Lamotte Oils GmbH...	Almond oil, refined	1000010093	2
Henry Lamotte Oils GmbH...	Almond oil, refined	1000013565	2
Henry Lamotte Oils GmbH...	Sesame oil, refined	1000013957	1
Henry Lamotte Oils GmbH...	Olive oil, native	1000016418	1
Henry Lamotte Oils GmbH...	Olive oil, native	8001854001	1
Henry Lamotte Oils GmbH...	Almond oil, refined	8002653001	3
Henry Lamotte Oils GmbH...	Almond oil, refined	8003167001	1
Henry Lamotte Oils GmbH...	Almond oil, refined	8003885002	1
Henry Lamotte Oils GmbH...	Almond oil, refined	8004039003	1
Henry Lamotte Oils GmbH...	Almond oil, refined	8004548002	1
Henry Lamotte Oils GmbH...	Almond oil, refined	8005803006	2
Henry Lamotte Oils GmbH...	Almond oil, refined	8005936002	3
Henry Lamotte Oils GmbH...	Almond oil, refined	8007584002	1
Henry Lamotte Oils GmbH...	Almond oil, refined	82675001	1
Henry Lamotte Oils GMBH...	Sesame oil, refined	1000013957	1
Henry Lamotte Oils GmbH...	Sesame oil, refined	1000009220	1
Henry Lamotte Oils GmbH...	Almond oil, refined	1000010685	1
Henry Lamotte Oils Gmbh...	Peanut oil, refined	1000014700	1
Henry Lamotte Oils GmbH...	Almond oil, refined	8002653001	1
Henry Lamotte oils GmbH...	Peanut oil, refined	1000013880	1
Henry Lamotte Oils GmbH...	Sesame oil, refined	1000009220	1
Henry Lamotte Oils GmbH...	Almond oil, refined	1000010685	2
Henry Lamotte Oils GmbH...	Olive oil, native	1000012617	1
Henry Lamotte Oils Gmbh...	Olive oil, native	1000016418	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils GmbH…	Almond oil, refined	8003167001	1
Henry Lamotte Oils GmbH…	Almond oil, refined	8004548011	1
Henry Lamotte Oils Gmbh…	Almond oil, refined	8007584001	1
Henry Lamotte Oils GmbH…	Almond oil, refined	8004039003	1
Henry Lamotte Oils GmbH…	Olive oil, native	8004067001	1
Henry Lamotte Oils GmbH…	Olive oil, native	8004499001	1
Henry lamotte Oils Gmbh…	Avocado oil, refined	130243	1
Henry Lamotte Oils Gmbh…	Almond oil, refined	8007461004	1
Henry Lamotte Oils GmbH…	Olive oil, native	8001854001	2
Henry Lamotte Oils GmbH…	Almond oil, refined	5615003	1
Henry Lamotte Oils GmbH…	Almond oil, refined	8003503001	2
Henry Lamotte Oils GmbH…	Codliver oil (type A)	8003906002	1
Henry Lamotte Oils GmbH…	Olive oil, native	1000012617	1
Henry Lamotte Oils GmbH…	Olive oil, native	1000010861	1
Henry Lamotte Oils GmbH…	Almond oil, refined	8005803006	1
Henry Lamotte Oils GmbH…	Peanut oil, refined	1000013880	1
Henry Lamotte Oils GmbH…	Olive oil, native	8003801001	1
Henry Lamotte Oils GmbH…	Olive oil, native	1000014032	1
Henry Lamotte Oils GmbH…	Flaxseed oil, native	1000002971	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000013112	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000017183	2
Henry Lamotte Oils GmbH…	Almond oil, refined	8005803006	3
Henry Lamotte Oils GmbH…	Almond oil, refined	8005803007	2
Henry Lamotte Oils GmbH…	Almond oil, refined	8007584002	1
Henry Lamotte Oils GmBh…	Almond oil, refined	5438302	1
Henry Lamotte Oils GmBh…	Olive oil, native	124392	1
Henry Lamotte Oils GMBH…	Flaxseed oil, native	12D05-N02	1
Henry Lamotte Oils GmbH…	Olive oil, native	8003801001	1
HENRY LAMOTTE OILS GmBH…	Almond oil, refined	1000010093	1
Henry Lamotte Oils GmbH…	Codliver oil (type A)	8001215002	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000010093	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000010685	1
Henry Lamotte Oils GmbH…	Peanut oil, refined	1000013880	1
Henry Lamotte Oils GmbH…	Olive oil, native	8004827001	1
Henry Lamotte Oils GmbH…	Olive oil, native	8002868001	1
Henry Lamotte Oils GmbH…	Olive oil, native	8003580002	1
Henry Lamotte Oils GmbH…	Borage oil, refined, stabili…	1000004932	1
Henry Lamotte Oils GmbH…	Borage oil, refined, stabili…	1000006205	1
Henry Lamotte Oils GmbH…	Peanut oil, refined	1000010888	1
Henry Lamotte Oils GmbH…	Olive oil, native	8004067001	1
Henry Lamotte Oils Gmbh…	Almond oil, refined	1000013112	1
Henry Lamotte Oils GmbH…	Almond oil, refined	130145	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1714U-01950	1
Henry Lamotte Oils Gmbh…	Olive oil, native	5470202	1
Henry Lamotte Oils Gmbh…	Almond oil, refined	5493001	1
Henry Lamotte Oils GmbH…	Almond oil, refined	5493001	1
Henry Lamotte Oils GmbH…	Sesame oil, refined	1000003864	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000004431	2
Henry Lamotte Oils GMBH…	Olive oil, native	1000010861	1
Henry Lamotte Oils GmbH…	Peanut oil, refined	1000010888	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000012126	1
Henry Lamotte Oils GmbH…	Peanut oil, refined	1000014700	1
Henry Lamotte Oils GmbH…	Olive oil, native	1000016418	1
Henry Lamotte Oils GmbH…	Peanut oil, refined	5473601	2
Henry Lamotte oils GmbH…	Codliver oil (type A)	5641901	1
Henry Lamotte oils GmbH…	Peanut oil, refined	5699601	2
Henry Lamotte Oils GmbH…	Almond oil, refined	8003167001	1
Henry Lamotte Oils GmbH…	Almond oil, refined	8003503001	1
Henry Lamotte Oils GmbH…	Almond oil, refined	8004548011	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000017183	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils GmbH…	Almond oil, refined	8005803007	2
Henry Lamotte Oils GmbH…	Almond oil, refined	1000010685	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000012126	1
Henry Lamotte Oils GmbH…	Almond oil, refined	100010093	1
Henry Lamotte Oils GmbH…	Olive oil, native	8003580002	1
Henry Lamotte Oils GmbH…	Codliver oil (type A)	8003727001	1
Henry Lamotte Oils GmbH…	Olive oil, native	8004251002	1
Henry Lamotte Oils GmbH…	Almond oil, refined	8004548002	1
Henry Lamotte Oils Gmbh…	Almond oil, refined	8005936002	2
Henry Lamotte Oils GmbH…	Almond oil, refined	1000010685	2
Henry Lamotte Oils GmbH…	Almond oil, refined	1000013565	2
henry lamotte oils gmbh…	Olive oil, native	8003580002	2
henry lamotte oils gmbh…	Olive oil, native	8002366001	1
Henry Lamotte Oils GmbH…	Sesame oil, refined	1000002705	1
Henry Lamotte Oils GmbH…	Flaxseed oil, native	1000009915	1
Henry Lamotte Oils GmbH…	Codliver oil (type A)	123823	1
Henry Lamotte Oils GmbH…	Almond oil, refined	5415901	1
Henry Lamotte Oils GmbH…	Almond oil, refined	5438301	1
Henry Lamotte Oils GmbH…	Almond oil, refined	5615001	1
Henry Lamotte Oils GmbH…	Almond oil, refined	5615001	1
Henry Lamotte Oils GmbH…	Almond oil, refined	5615003	1
Henry Lamotte Oils GmbH…	Codliver oil (type A)	5641901	1
Henry Lamotte Oils GmbH…	Olive oil, native	5734701	1
Henry Lamotte Oils GmbH…	Almond oil, refined	5748601	3
Henry Lamotte Oils GmbH…	Almond oil, refined	8002675001	1
Henry Lamotte Oils GmbH…	Almond oil, refined	8007461004	2
Henry Lamotte Oils GmbH…	Peanut oil, refined	1000012961	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000013112	1
Henry Lamotte Oils GmbH…	Almond oil, refined	1000013565	3
Henry Lamotte Oils GmbH…	Codliver oil (type A)	8004742002	1
Henry Lamotte Oils GmBh	Codliver oil (type A)		1
Henry Lamotte Oils GmbH	Avocado oil, refined	1000001098	1
HENRY LAMOTTE OILS Gmbh	Avocado oil, refined	1000001451	1
Henry Lamotte Oils Gmbh	Sesame oil, refined	1000002705	1
Henry Lamotte Oils GmbH	Sesame oil, refined	1000002705	1
Henry Lamotte Oils GmbH	Almond oil, refined	1000003242	3
Henry Lamotte Oils GmbH	Sesame oil, refined	1000003864	1
Henry Lamotte Oils GmbH	Almond oil, refined	1000004431	2
Henry Lamotte Oils GmbH	Olive oil, native	1000004908	1
Henry Lamotte Oils GmbH	Sesame oil, refined	1000005858	1
Henry Lamotte Oils GmbH	Borage oil, refined, stabili…	1000006205	1
Henry Lamotte Oils Gmbh	Sesame oil, refined	1000009220	1
Henry Lamotte Oils GmbH	Olive oil, native	1000010090	1
Henry Lamotte Oils GmbH	Almond oil, refined	1000010093	4
HENRY LAMOTTE OILS GmbH	Almond oil, refined	1000010093	1
Henry Lamotte Oils Gmbh	Almond oil, refined	1000010685	1
Henry Lamotte Oils GmbH	Almond oil, refined	1000010685	9
HENRY LAMOTTE OILS GmbH	Almond oil, refined	1000010685	1
Henry Lamotte Oils GmbH	Olive oil, native	1000010808	1
Henry Lamotte Oils GmbH	Sunflower oil, refined	1000010859	1
Henry Lamotte Oils GmbH	Olive oil, native	1000010861	1
HENRY LAMOTTE OILS GmbH	Olive oil, native	1000010861	1
Henry Lamotte Oils GmbH	Peanut oil, refined	1000010888	4
Henry Lamotte Oils GmbH	Sesame oil, refined	1000010906	1
Henry Lamotte Oils GmbH	Sesame oil, refined	1000011034	1
Henry Lamotte Oils GmbH	Peanut oil, refined	1000011859	2
Henry Lamotte Oils GmbH	Sesame oil, refined	1000011866	7
Henry Lamotte Oils GmbH	Codliver oil (type A)	1000011916	1
Henry Lamotte Oils GmbH	Almond oil, refined	1000012126	6
HENRY LAMOTTE OILS Gmbh	Almond oil, refined	1000012126	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
HENRY LAMOTTE OILS GmbH	Almond oil, refined	1000012126	1
Henry Lamotte Oils GmbH	Olive oil, native	1000012341	3
HENRY LAMOTTE OILS GmbH	Olive oil, native	1000012617	1
Henry Lamotte Oils GmbH	Peanut oil, refined	1000012961	1
Henry Lamotte Oils GmbH	Almond oil, refined	1000013112	2
Henry Lamotte Oils GmbH	Almond oil, refined	100001312	1
Henry Lamotte Oils GmbH	Peanut oil, refined	1000013128	2
Henry Lamotte Oils GmbH	Almond oil, refined	1000013565	12
Henry Lamotte Oils GmbH	Sesame oil, refined	1000013957	3
HENRY LAMOTTE OILS GmbH	Olive oil, native	1000014032	1
Henry Lamotte Oils GmbH	Peanut oil, refined	1000014700	4
Henry LAmotte Oils GmbH	Peanut oil, refined	1000014700	1
Henry Lamotte Oils GmbH	Sesame oil, refined	1000015599	2
Henry Lamotte Oils GmbH	Peanut oil, refined	1000015783	2
HENRY LAMOTTE OILS GmbH	Peanut oil, refined	1000015783	1
Henry Lamotte Oils Gmbh	Sunflower oil, refined	1000015924	1
HENRY LAMOTTE OILS GmbH	Olive oil, native	1000016418	1
Henry Lamotte Oils Gmbh	Almond oil, refined	1000017183	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	1000017673	6
Henry Lamotte oils GmbH	Olive oil, native	1000017999	1
Henry Lamotte Oils GmbH	Olive oil, native	100013127	1
Henry Lamotte Oils GmbH	Avocado oil, refined	122490	2
Henry Lamotte Oils GmbH	Sesame oil, refined	122972	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	123108	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	123420L900	1
Henry Lamotte Oils GmbH	Sesame oil, refined	123488	1
Henry Lamotte oils GmbH	Codliver oil (type A)	123823	3
Henry Lamotte Oils GmbH	Olive oil, native	124392	1
Henry Lamotte Oils GmbH	Avocado oil, refined	125529	2
Henry Lamotte Oils GmbH	Almond oil, refined	130143	2
Henry Lamotte Oils GmbH	Almond oil, refined	130145	2
Henry Lamotte Oils GmbH	Avocado oil, refined	130243	1
Henry Lamotte Oils GmBh	Almond oil, refined	13032014B	1
Henry Lamotte Oils GmbH	Borage oil, refined, stabili...	130402	1
Henry Lamotte Oils GmBh	Codliver oil (type A)	16012014A	1
Henry Lamotte Oils Gmbh	Peanut oil, refined	16071105	1
Henry Lamotte Oils GmBh	Almond oil, refined	16092013B	1
Henry Lamotte Oils GMBH	Almond oil, refined	170316M8001497001	1
Henry Lamotte Oils GmBh	Almond oil, refined	17082015B	1
Henry Lamotte Oils GmBh	Codliver oil (type A)	18092014A	1
Henry Lamotte Oils GmBh	Almond oil, refined	260814A	1
Henry Lamotte Oils GmBh	Codliver oil (type A)	280913A	1
Henry Lamotte Oils GmBh	Codliver oil (type A)	29012015A	1
Henry Lamotte Oils GmBh	Codliver oil (type A)	291013A	1
Henry Lamotte Oils GmBh	Codliver oil (type A)	301214a	1
Henry Lamotte Oils GmBh	Codliver oil (type A)	30614A	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	4931805	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	5029205	3
Henry Lamotte oils GmbH	Peanut oil, refined	5204402	2
Henry Lamotte Oils GmbH	Almond oil, refined	5214206	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	5228001	2
Henry Lamotte Oils GmbH	Codliver oil (type A)	5228004	2
Henry Lamotte Oils GmbH	Almond oil, refined	5269301	4
Henry Lamotte Oils GmbH	Olive oil, native	5372701	1
Henry Lamotte Oils Gmbh	Almond oil, refined	5415901	1
Henry Lamotte Oils GmbH	Almond oil, refined	5415901	2
Henry Lamotte Oils GmbH	Codliver oil (type A)	5437202	3
Henry Lamotte Oils GmbH	Almond oil, refined	5438301	1
Henry Lamotte Oils GmbH	Almond oil, refined	5438302	1
henry lamotte oils gmbh	Olive oil, native	5464901	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils GmbH	Peanut oil, refined	5473601	1
Henry Lamotte Oils GmbH	Almond oil, refined	5493001	1
Henry Lamotte oils GmbH	Codliver oil (type A)	5529601	3
Henry Lamotte Oils GmbH	Codliver oil (type A)	5529601	1
Henry Lamotte Oils GmbH	Almond oil, refined	5615001	1
Henry Lamotte Oils GmbH	Almond oil, refined	5615003	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	5641901	1
Henry Lamotte Oils GmbH	Olive oil, native	5671901	2
Henry Lamotte Oils GmbH	Codliver oil (type A)	5693101	2
Henry Lamotte Oils GmbH	Peanut oil, refined	5697901	4
Henry Lamotte Oils GmbH	Peanut oil, refined	5699601	1
Henry Lamotte Oils GmbH	Almond oil, refined	5703001	2
Henry Lamotte Oils GmbH	Jojoba Oil, native	5732801	1
Henry Lamotte Oils GmbH	Almond oil, refined	5748601	1
Henry Lamotte Oils GmbH	Olive oil, native	5813601	1
Henry Lamotte Oils Gmbh	Sesame oil, refined	5872901	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	5878701	1
Henry Lamotte Oils GmbH	Peanut oil, refined	5904100091	1
Henry Lamotte Oils GmbH	Jojoba Oil, native	5913600001	1
Henry Lamotte Oils GmbH	Almond oil, refined	5919600001	1
Henry Lamotte Oils GmbH	Olive oil, native	59211000001	1
Henry Lamotte oils GmbH	Olive oil, native	5921100001	1
Henry Lamotte Oils GmbH	Olive oil, native	5921100001	1
Henry Lamotte Oils GmBh	Codliver oil (type A)	6082013A	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	8000601001	4
Henry Lamotte Oils GmbH	Olive oil, native	8000652001	1
Henry Lamotte Oils GmbH	Peanut oil, refined	8000666005	3
Henry Lamotte Oils GmbH	Almond oil, refined	8000712001	3
Henry Lamotte Oils Gmbh	Almond oil, refined	8000725001	1
Henry Lamotte Oils GmbH	Almond oil, refined	8000725001	6
Henry Lamotte Oils GmbH	Almond oil, refined	8000915001	7
Henry Lamotte Oils Gmbh	Almond oil, refined	8000915002	1
Henry Lamotte Oils GmbH	Almond oil, refined	8000915002	6
henry lamotte oils gmbh	Codliver oil (type A)	8000918001	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	8000918001	5
henry lamotte oils gmbh	Codliver oil (type A)	8001176004	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	8001176004	6
Henry Lamotte Oils GmBh	Codliver oil (type A)	8001215002	1
Henry Lamotte Oils GmbH	Peanut oil, refined	8001417003	3
Henry Lamotte Oils Gmbh	Almond oil, refined	8001497001	1
Henry Lamotte Oils GmbH	Almond oil, refined	8001497001	8
Henry LAmotte Oils GmbH	Almond oil, refined	8001497001	6
HENRY LAMOTTE OILS GmbH	Almond oil, refined	8001497001	1
Henry Lamotte oils GmbH	Olive oil, native	8001560001	2
Henry Lamotte Oils Gmbh	Olive oil, native	8001560001	1
Henry Lamotte Oils GmbH	Olive oil, native	8001560001	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	8001765001	3
Henry Lamotte Oils GmbH	Peanut oil, refined	8001943002	2
Henry Lamotte Oils GmbH	Peanut oil, refined	8001959001	3
Henry Lamotte Oils GmbH	Olive oil, native	8002026001	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	8002338002	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	8002468002	1
Henry Lamotte Oils GmbH	Avocado oil, refined	8002616001	1
Henry Lamotte Oils GmbH	Almond oil, refined	8002653001	7
Henry Lamotte Oils GmbH	Almond oil, refined	8002675001	3
Henry Lamotte Oils GmbH	Olive oil, native	8002868001	3
Henry Lamotte Oils Gmbh	Sesame oil, refined	8002939002	1
Henry Lamotte Oils GmbH	Peanut oil, refined	8003146001	2
Henry Lamotte Oils Gmbh	Almond oil, refined	8003167001	2
Henry Lamotte Oils GmbH	Almond oil, refined	8003167001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
HENRY LAMOTTE OILS GmbH	Almond oil, refined	8003167001	1
Henry Lamotte Oils GmbH	Olive oil, native	8003420001	2
Henry Lamotte Oils Gmbh	Almond oil, refined	8003503001	1
Henry Lamotte Oils GmbH	Almond oil, refined	8003503001	1
Henry Lamotte Oils GmbH	Almond oil, refined	8003503002	2
Henry Lamotte Oils GmbH	Olive oil, native	8003580002	1
Henry Lamotte Oils GmbH	Olive oil, native	8003801001	1
Henry Lamotte Oils Gmbh	Almond oil, refined	8003885002	1
Henry Lamotte Oils GmbH	Almond oil, refined	8003885002	3
HENRY LAMOTTE OILS GmbH	Almond oil, refined	8003885002	2
Henry Lamotte Oils GmbH	Codliver oil (type A)	8003906001	3
Henry Lamotte Oils GmbH	Codliver oil (type A)	8003906002	1
Henry Lamotte Oils GmbH	Almond oil, refined	8004039001	1
Henry Lamotte Oils GmbH	Almond oil, refined	8004039003	5
Henry Lamotte Oils GmbH	Olive oil, native	8004067001	2
HENRY LAMOTTE OILS GmbH	Olive oil, native	8004067001	1
Henry Lamotte Oils GmbH	Olive oil, native	8004194001	1
Henry Lamotte Oils GmbH	Peanut oil, refined	8004235001	2
Henry Lamotte Oils GmbH	Olive oil, native	8004251002	1
Henry Lamotte Oils GmbH	Peanut oil, refined	8004304002	5
Henry Lamotte Oils GmbH	Almond oil, refined	8004390001	6
HENRY LAMOTTE OILS GmbH	Almond oil, refined	8004390001	2
Henry Lamotte Oils GmbH	Olive oil, native	8004499001	3
Henry Lamotte Oils Gmbh	Almond oil, refined	8004548002	1
Henry Lamotte Oils GmbH	Almond oil, refined	8004548002	4
HENRY LAMOTTE OILS GmbH	Almond oil, refined	8004548002	2
Henry Lamotte Oils GmbH	Almond oil, refined	8004548007	1
Henry Lamotte Oils GmbH	Almond oil, refined	8004548011	8
Henry Lamotte Oils GmbH	Codliver oil (type A)	8004742002	2
Henry Lamotte Oils GmbH	Olive oil, native	8004827001	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	8005296003	2
Henry Lamotte Oils GmbH	Almond oil, refined	8005803006	4
Henry Lamotte Oils GmbH	Almond oil, refined	8005803007	4
Henry Lamotte Oils Gmbh	Almond oil, refined	8005936002	1
Henry Lamotte Oils GmbH	Almond oil, refined	8005936002	8
Henry Lamotte Oils GMBH	Almond oil, refined	8005936002	1
HENRY LAMOTTE OILS GmbH	Almond oil, refined	8005936002	2
Henry Lamotte Oils GmbH	Codliver oil (type A)	8007109001	1
Henry Lamotte Oils GmbH	Codliver oil (type A)	8062015A	1
Henry Lamotte Oils GmbH...	Almond oil, refined	1000013565	1
henry lamotte oils Gmh/N	Almond oil, refined	8000915001	2
henry lamotte oils Gmh/N	Almond oil, refined	8000915002	1
Henry Lamotte Oils, Anzag	Codliver oil (type A)	123823	2
Henry Lamotte Oils, Gehe	Almond oil, refined	5438302	1
Henry Lamotte Oils, Gehe	Codliver oil (type A)	5529601	1
Henry Lamotte Oils/ Gehe	Almond oil, refined	150001526/2	1
Henry Lamotte Oils/ Now...	Almond oil, refined	1000012126	1
Henry Lamotte Oils/ Pho...	Peanut oil, refined	1000010888	1
Henry Lamotte Oils/Ebert	Sesame oil, refined	1000007221	1
Henry Lamotte Oils/GEHE	Olive oil, native	1000010861	1
Henry Lamotte Oils/Gehe	Peanut oil, refined	1000010888	1
Henry Lamotte Oils/Gehe	Almond oil, refined	1000013112	1
Henry Lamotte Oils/Gehe	Almond oil, refined	5438302	2
Henry Lamotte Oils/GEHE	Codliver oil (type A)	5693101	1
Henry Lamotte Oils/GEHE	Almond oil, refined	5748601	1
Henry Lamotte Oils/Gehe	Almond oil, refined	7315787	1
Henry Lamotte Oils/Gehe	Almond oil, refined	8001497001	2
Henry Lamotte Oils/Gehe	Codliver oil (type A)	8002338002	1
Henry Lamotte Oils/Gehe	Almond oil, refined	8002653001	1
Henry Lamotte Oils/GEHE	Almond oil, refined	8002653001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils/Gehe	Almond oil, refined	8003167001	1
Henry Lamotte Oils/Gehe	Almond oil, refined	8003503001	1
Henry Lamotte Oils/Gehe	Almond oil, refined	8003885002	2
Henry Lamotte Oils/Geibo	Almond oil, refined	1000010093	1
Henry Lamotte Oils/Geibo	Codliver oil (type A)	8005296002	1
Henry Lamotte Oils/Noweda	Flaxseed oil, native	1000002422	1
Henry Lamotte Oils/Noweda	Almond oil, refined	1000003242	1
Henry Lamotte Oils/Noweda	Almond oil, refined	1000010093	1
Henry Lamotte Oils/Noweda	Peanut oil, refined	1000014700	1
Henry Lamotte Oils/Noweda	Almond oil, refined	170318184	1
Henry Lamotte Oils/Noweda	Almond oil, refined	180808182	1
Henry Lamotte Oils/Noweda	Codliver oil (type A)	5529601	1
Henry Lamotte Oils/Noweda	Codliver oil (type A)	5878701	1
Henry Lamotte Oils/Noweda	Almond oil, refined	8000915002	2
Henry Lamotte Oils/Noweda	Almond oil, refined	8002653001	3
Henry Lamotte Oils/Noweda	Almond oil, refined	8002675001	1
Henry Lamotte Oils/Noweda	Almond oil, refined	8003503002	2
Henry Lamotte Oils/Noweda	Almond oil, refined	8004039003	1
henry lamotte oils/noweda	Almond oil, refined	8004390001	1
Henry Lamotte Oils/Noweda	Codliver oil (type A)	8004742003	1
Henry Lamotte Oils/Phoe...	Olive oil, native	1000010861	3
Henry Lamotte Oils/Phoe...	Almond oil, refined	1000012126	2
Henry Lamotte Oils/Phoe...	Almond oil, refined	8004548002	1
Henry Lamotte Oils/Phoe...	Codliver oil (type A)	8006235003	1
Henry Lamotte Oils/Phönix	Almond oil, refined	1000010093	1
Henry Lamotte Oils/Phönix	Sesame oil, refined	1000010906	2
Henry Lamotte Oils/Phönix	Peanut oil, refined	1000012961	1
Henry Lamotte Oils/Phönix	Peanut oil, refined	1000014700	1
Henry Lamotte Oils/Phönix	Almond oil, refined	8004548007	1
Henry Lamotte Oils/Poenix	Peanut oil, refined	100001088	1
Henry Lamotte Oils/Sana...	Almond oil, refined	10000010093	1
Henry Lamotte Oils/Sana...	Omega-3-fish oil	123780	1
Henry Lamotte Oils/Sana...	Almond oil, refined	130145	1
Henry Lamotte Oils/Sana...	Borage oil, refined, stabili...	5402901	1
Henry Lamotte Oils/Sana...	Almond oil, refined	5919600001	3
Henry Lamotte Oils	Almond oil, refined	1000003242	3
Henry Lamotte Oils	Almond oil, refined	1000004431	3
Henry Lamotte Oils	Sesame oil, refined	1000009220	2
Henry Lamotte Oils	Almond oil, refined	1000010093	2
henry lamotte oils	Flaxseed oil, native	1000010463	1
Henry Lamotte oils	Olive oil, native	1000010861	1
Henry Lamotte Oils	Peanut oil, refined	1000010888	1
Henry Lamotte Oils	Sesame oil, refined	1000010906	1
Henry Lamotte Oils	Almond oil, refined	1000012126	2
Henry Lamotte Oils	Olive oil, native	1000012617	1
Henry Lamotte Oils	Peanut oil, refined	1000012961	1
Henry Lamotte Oils	Peanut oil, refined	1000015783	1
henry lamotte oils	Sesame oil, refined	1000015959	1
Henry Lamotte Oils	Avocado oil, refined	122470	1
Henry Lamotte Oils	Sesame oil, refined	122972	1
Henry Lamotte Oils	Borage oil, refined, stabili...	123118	1
Henry Lamotte Oils	Omega-3-fish oil	123305	1
Henry Lamotte Oils	Sesame oil, refined	123488	2
Henry Lamotte Oils	Codliver oil (type A)	16011901	1
henry lamotte oils	Jojoba Oil, native	5055401	1
Henry Lamotte Oils	Almond oil, refined	5214206	1
Henry Lamotte Oils	Codliver oil (type A)	5228001	1
Henry Lamotte Oils	Sesame oil, refined	5319201	2
Henry Lamotte Oils	Almond oil, refined	5415901	2
henry lamotte oils	Codliver oil (type A)	5437202	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Oils	Codliver oil (type A)	5437202	2
Henry Lamotte Oils	Almond oil, refined	5438301	1
Henry Lamotte Oils	Almond oil, refined	5438302	5
Henry Lamotte Oils	Sesame oil, refined	5514801	2
Henry Lamotte Oils	Codliver oil (type A)	5529601	2
Henry Lamotte Oils	Codliver oil (type A)	5641901	1
Henry Lamotte Oils	Codliver oil (type A)	5693101	1
Henry Lamotte Oils	Almond oil, refined	5703001	1
Henry Lamotte Oils	Almond oil, refined	5748601	3
Henry Lamotte Oils	Olive oil, native	5903400003	2
Henry Lamotte Oils	Almond oil, refined	5919600001	2
Henry Lamotte Oils	Almond oil, refined	8000725001	1
Henry Lamotte Oils	Olive oil, native	8000821001	1
Henry Lamotte Oils	Almond oil, refined	8000915001	1
Henry Lamotte Oils	Almond oil, refined	8001497001	4
Henry Lamotte Oils	Olive oil, native	8001648001	1
Henry Lamotte Oils	Codliver oil (type A)	8002338002	4
Henry Lamotte Oils	Codliver oil (type A)	8002468002	2
Henry Lamotte Oils	Almond oil, refined	8002653001	3
Henry Lamotte Oils	Almond oil, refined	8002675001	3
Henry Lamotte Oils	Almond oil, refined	8003167001	1
Henry Lamotte Oils	Olive oil, native	8003420001	1
Henry Lamotte Oils	Jojoba Oil, native	8003732001	1
Henry Lamotte Oils	Almond oil, refined	8004390001	1
Henry Lamotte oils	Olive oil, native	8004499001	3
Henry Lamotte Oils	Almond oil, refined	8004548011	1
Henry Lamotte Oils	Almond oil, refined	8005803007	2
Henry Lamotte Oils	Almond oil, refined	8007584001	1
Henry Lamotte Oils	Olive oil, native	8022366001	1
HENRY LAMOTTE OIS GmbH	Codliver oil (type A)	800125002	1
Henry Lamotte Olis GmbH...	Olive oil, native	1000010861	1
Henry Lamotte Olis GmbH...	Peanut oil, refined	1000010888	1
Henry Lamotte Olis GmbH...	Almond oil, refined	1000012126	1
Henry Lamotte Olis GmbH...	Olive oil, native	1000012617	1
Henry Lamotte Olis GmbH...	Olive oil, native	1000014032	1
Henry Lamotte Olis GmbH...	Olive oil, native	1000016418	1
Henry Lamotte Olis GmbH...	Almond oil, refined	5703001	6
Henry Lamotte Olis GmbH...	Almond oil, refined	5919600001	1
Henry Lamotte Olis GmbH...	Almond oil, refined	8000915001	2
Henry Lamotte Olis GmbH...	Almond oil, refined	8000915002	2
Henry Lamotte Olis GmbH...	Olive oil, native	8003801001	1
Henry Lamotte Olis GmbH...	Almond oil, refined	8003885002	1
Henry Lamotte Olis GmbH...	Olive oil, native	8004499001	1
Henry Lamotte Olis GmbH...	Almond oil, refined	8004548002	1
Henry Lamotte Olis GmbH...	Peanut oil, refined	1000013880	1
Henry Lamotte Sanacorp	Almond oil, refined	100001216	1
Henry Lamotte Sanacorp	Almond oil, refined	8001497001	1
Henry Lamotte Sanacorp	Almond oil, refined	8002653001	1
Henry Lamotte über Noweda	Sesame oil, refined	1000013957	4
Henry Lamotte über Noweda	Sesame oil, refined	1000015599	2
Henry Lamotte über Phönix	Sesame oil, refined	1000011866	5
Henry Lamotte über Phönix	Almond oil, refined	1000012126	1
Henry Lamotte über Phönix	Almond oil, refined	1000013565	1
Henry Lamotte über Phönix	Sesame oil, refined	1000016689	1
Henry Lamotte über Phönix	Almond oil, refined	8005803007	3
Henry Lamotte über Phönix	Almond oil, refined	8005936002	2
Henry Lamotte, Alliance...	Almond oil, refined	8004548011	1
Henry Lamotte, Noweda	Olive oil, native	5372701	1
Henry Lamotte/ 11.05.13...	Almond oil, refined	5438301	1
Henry Lamotte/ 26.06.13...	Sesame oil, refined	123488	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/ AH	Almond oil, refined	8005936002	1
Henry Lamotte/ AHD/ 08....	Sesame oil, refined	1000010906	1
Henry Lamotte/ Alliance...	Almond oil, refined	1000012126	2
Henry Lamotte/ Alliance...	Almond oil, refined	8002675001	1
Henry Lamotte/ Alliance...	Olive oil, native	8002868001	1
Henry Lamotte/ Alliance...	Almond oil, refined	8003885002	1
Henry Lamotte/ Alliance	Olive oil, native	8001854001	1
Henry Lamotte/ Alliance	Almond oil, refined	8003885002	1
Henry lamotte/ Alliance	Almond oil, refined	8005936002	1
Henry Lamotte/ Fiebig	Sesame oil, refined	1000015599	1
Henry Lamotte/ Gehe	Almond oil, refined	1000010685	2
Henry Lamotte/ Gehe	Jojoba Oil, native	5913600001	1
Henry Lamotte/ Gehe	Almond oil, refined	8000712001	1
Henry Lamotte/ Henry La...	Almond oil, refined	1000003242	19
Henry Lamotte/ Henry La...	Almond oil, refined	8000915001	16
Henry Lamotte/ Jenne	Peanut oil, refined	1000013880	1
Henry Lamotte/ Jenne	Peanut oil, refined	1000017094	1
Henry Lamotte/ Jenne	Almond oil, refined	8004390001	1
Henry Lamotte/ Krieger	Almond oil, refined	1000010093	1
Henry Lamotte/ Nowed	Olive oil, native	1000004908	1
Henry Lamotte/ Noweda	Sesame oil, refined	1000002705	1
Henry Lamotte/ Noweda	Almond oil, refined	1000004431	1
Henry Lamotte/ Noweda	Olive oil, native	1000004908	1
Henry Lamotte/ Noweda	Avocado oil, refined	1000005537	1
Henry Lamotte/ Noweda	Sesame oil, refined	1000005858	1
Henry Lamotte/ Noweda	Almond oil, refined	1000010093	2
Henry Lamotte/ Noweda	Avocado oil, refined	1000011532	1
Henry Lamotte/ Noweda	Almond oil, refined	1000012126	3
Henry Lamotte/ Noweda	Olive oil, native	124392	1
Henry Lamotte/ Noweda	Almond oil, refined	5615001	3
Henry Lamotte/ Noweda	Sesame oil, refined	5639301	1
Henry Lamotte/ NOweda	Sesame oil, refined	5872901	1
Henry Lamotte/ Noweda	Almond oil, refined	5919600001	2
Henry Lamotte/ Noweda	Avocado oil, refined	8002616001	1
Henry Lamotte/ Noweda	Almond oil, refined	8002653001	1
Henry Lamotte/ Noweda	Almond oil, refined	8002675001	1
Henry Lamotte/ Noweda	Almond oil, refined	8004390001	3
Henry Lamotte/ Noweda	Almond oil, refined	8004548007	1
Henry Lamotte/ Noweda	Almond oil, refined	8005936002	1
Henry Lamotte/ Phoenix	Almond oil, refined	1000010093	1
Henry Lamotte/ Phoenix	Peanut oil, refined	1000015783	1
Henry Lamotte/ Phoenix	Almond oil, refined	8004039003	1
Henry Lamotte/ Phoenix	Almond oil, refined	8004548002	3
Henry Lamotte/ Phoenix	Almond oil, refined	8004548011	1
Henry Lamotte/ Phönix	Almond oil, refined	1000003242	2
Henry Lamotte/ Phönix	Almond oil, refined	1000004431	3
Henry Lamotte/ Phönix	Almond oil, refined	1000010685	1
Henry Lamotte/ Phönix	Almond oil, refined	8001497001	2
Henry Lamotte/ Phönix	Almond oil, refined	8002653001	2
Henry Lamotte/ Phönix	Almond oil, refined	8002675001	3
Henry Lamotte/ Phönix	Almond oil, refined	800275001	1
Henry Lamotte/ Phönix	Almond oil, refined	8003503001	1
Henry Lamotte/ Phönix	Almond oil, refined	8004548002	1
Henry Lamotte/ Phönix	Almond oil, refined	8005803006	1
Henry Lamotte/ Phönix	Almond oil, refined	8007584001	1
Henry Lamotte/ Sana	Olive oil, native	8002827001	1
Henry Lamotte/ Sanacorp	Peanut oil, refined	1000013880	1
Henry Lamotte/ Sanacorp	Peanut oil, refined	1000014700	1
Henry Lamotte/ Sanacorp	Almond oil, refined	8000712001	2
Henry Lamotte/ Sanacorp	Olive oil, native	8004067001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/ Sanacorp	Jojoba Oil, native	8004998001	1
Henry Lamotte/	Peanut oil, refined	1000010888	1
Henry Lamotte/AHC	Olive oil, native	800156001	1
Henry Lamotte/AHC	Olive oil, native	8002366001	1
Henry Lamotte/AHD	Avocado oil, refined	1000004363	1
Henry Lamotte/AHD	Evening primrose oil, refined	1000005123	1
Henry lamotte/AHD	Sesame oil, refined	1000009220	1
Henry Lamotte/AHD	Sesame oil, refined	1000010906	1
Henry Lamotte/AHD	Almond oil, refined	1000012126	2
Henry Lamotte/AHD	Olive oil, native	17631101	1
Henry Lamotte/AHD	Evening primrose oil, refined	18009109	1
Henry Lamotte/AHD	Olive oil, native	8000821001	1
Henry Lamotte/AHD	Almond oil, refined	8000915001	2
Henry Lamotte/AHD	Almond oil, refined	8003503001	1
Henry Lamotte/AHD	Almond oil, refined	8004390001	2
Henry Lamotte/Alli. HC	Almond oil, refined	8005803006	1
Henry Lamotte/Alli. HC	Almond oil, refined	8005803007	1
Henry Lamotte/Alliance H	Almond oil, refined	5748601	1
Henry Lamotte/Alliance ...	Olive oil, native	1000014032	1
Henry Lamotte/Alliance ...	Jojoba Oil, native	5756401	1
Henry Lamotte/Alliance	Olive oil, native	1000010861	2
Henry Lamotte/Alliance	Almond oil, refined	1000012126	2
Henry Lamotte/Alliance	Olive oil, native	1000013127	1
Henry Lamotte/Alliance	Almond oil, refined	8002675001	1
Henry Lamotte/Alliance	Almond oil, refined	8003167001	1
Henry Lamotte/Alliance	Olive oil, native	8003801001	2
Henry Lamotte/Alliance	Codliver oil (type A)	8005296002	1
Henry Lamotte/Alliance	Almond oil, refined	8005936002	1
Henry Lamotte/Anzag	Avocado oil, refined	1000001098	2
Henry Lamotte/Anzag	Borage oil, refined, stabili...	1000001388	1
Henry Lamotte/Anzag	Olive oil, native	123773	1
Henry Lamotte/Anzag	Evening primrose oil, refined	124363	2
Henry Lamotte/Anzag	Borage oil, refined, stabili...	125354	1
Henry Lamotte/Anzag	Almond oil, refined	416E-01950	1
Henry Lamotte/Anzag	Olive oil, native	5272401	1
Henry Lamotte/Anzag	Borage oil, refined, stabili...	5594400001	1
Henry Lamotte/Anzag	Olive oil, native	590340003	1
Henry Lamotte/Anzag	Olive oil, native	8000821001	1
Henry Lamotte/Anzag	Olive oil, native	8001648001	1
Henry Lamotte/Gehe/24.0...	Codliver oil (type A)	8004742002	1
Henry Lamotte/Gehe	Almond oil, refined	1000003242	1
Henry Lamotte/Gehe	Almond oil, refined	1000010685	2
Henry Lamotte/Gehe	Olive oil, native	1000010861	1
Henry Lamotte/Gehe	Peanut oil, refined	1000010888	2
Henry Lamotte/Gehe	Sesame oil, refined	1000010906	1
Henry Lamotte/Gehe	Olive oil, native	1000012617	2
Henry Lamotte/Gehe	Peanut oil, refined	1000012961	2
Henry Lamotte/Gehe	Almond oil, refined	1000013112	1
Henry Lamotte/Gehe	Avocado oil, refined	1000013125	1
Henry Lamotte/Gehe	Almond oil, refined	1000013565	2
Henry Lamotte/Gehe	Olive oil, native	1000014032	1
henry lamotte/gehe	Almond oil, refined	1000017183	1
Henry Lamotte/Gehe	Almond oil, refined	10093	1
Henry Lamotte/Gehe	Almond oil, refined	5415901	2
Henry Lamotte/Gehe	Olive oil, native	5903400003	1
henry lamotte/gehe	Almond oil, refined	8003503001	2
Henry Lamotte/Gehe	Olive oil, native	8004067001	1
henry lamotte/gehe	Almond oil, refined	8005803007	1
Henry Lamotte/Gehe	Almond oil, refined	8005936002	1
henry lamotte/gehe	Almond oil, refined	8007584001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/Jenne	Almond oil, refined	1000010093	1
Henry Lamotte/Jenne	Almond oil, refined	1000010685	1
Henry Lamotte/Jenne	Olive oil, native	1000010861	1
Henry Lamotte/Jenne	Almond oil, refined	1000012126	2
Henry Lamotte/Jenne	Almond oil, refined	121(8003167001)	1
Henry Lamotte/Jenne	Almond oil, refined	122(8003503001)	1
Henry Lamotte/Jenne	Almond oil, refined	123(8003503001)	1
Henry Lamotte/Jenne	Almond oil, refined	124(8003885002)	1
Henry Lamotte/Jenne	Peanut oil, refined	5204402	1
Henry Lamotte/Jenne	Almond oil, refined	8004390001	1
Henry Lamotte/Jenne	Almond oil, refined	8005936002	2
Henry Lamotte/Kehr	Olive oil, native	1000010861	1
Henry Lamotte/Kehr	Codliver oil (type A)	5529601	1
Henry Lamotte/Kehr	Olive oil, native	8000652001	1
Henry Lamotte/Kehr	Almond oil, refined	8000725001	1
Henry Lamotte/Kehr	Sesame oil, refined	8001557002	1
Henry Lamotte/N/18.06.1…	Almond oil, refined	5438301	1
Henry lamotte/N/PZN:004…	Olive oil, native	5372701	1
Henry Lamotte/N/PZN:731…	Almond oil, refined	5438302	1
Henry Lamotte/Noewda	Almond oil, refined	1000004431	1
Henry Lamotte/Noewda	Almond oil, refined	8003503001	2
Henry Lamotte/Now	Almond oil, refined	8003503001	1
Henry Lamotte/Noweda 12…	Almond oil, refined	8005803007	1
Henry Lamotte/Noweda	Almond oil, refined	1000003242	1
Henry Lamotte/Noweda	Almond oil, refined	1000004431	1
Henry Lamotte/Noweda	Evening primrose oil, refined	1000005123	1
Henry Lamotte/Noweda	Olive oil, native	1000010090	1
Henry Lamotte/Noweda	Almond oil, refined	1000010685	2
Henry Lamotte/Noweda	Olive oil, native	1000010808	2
Henry Lamotte/Noweda	Olive oil, native	1000010861	1
Henry Lamotte/Noweda	Almond oil, refined	1000012126	3
Henry Lamotte/Noweda	Peanut oil, refined	1000012961	1
Henry Lamotte/Noweda	Almond oil, refined	1000013565	1
Henry Lamotte/Noweda	Peanut oil, refined	1000013880	1
Henry Lamotte/Noweda	Peanut oil, refined	1000014700	2
Henry Lamotte/Noweda	Almond oil, refined	100010685	1
Henry Lamotte/Noweda	Flaxseed oil, native	124116	1
Henry Lamotte/Noweda	Codliver oil (type A)	5529601	1
Henry Lamotte/Noweda	Almond oil, refined	5615003	1
Henry Lamotte/Noweda	Codliver oil (type A)	5641901	1
Henry Lamotte/Noweda	Almond oil, refined	8000712001	1
Henry Lamotte/Noweda	Almond oil, refined	8000725001	1
Henry Lamotte/Noweda	Olive oil, native	8000821001	1
Henry Lamotte/Noweda	Codliver oil (type A)	8001215002	1
henry lamotte/Noweda	Almond oil, refined	8001497001	1
Henry Lamotte/Noweda	Olive oil, native	8001854001	2
Henry Lamotte/Noweda	Codliver oil (type A)	8002338002	1
Henry Lamotte/Noweda	Olive oil, native	8002366001	1
Henry Lamotte/Noweda	Almond oil, refined	8002653001	4
Henry Lamotte/Noweda	Olive oil, native	8002656001	1
Henry Lamotte/Noweda	Almond oil, refined	8002675001	1
Henry Lamotte/Noweda	Olive oil, native	8002827001	1
henry lamotte/Noweda	Almond oil, refined	8003167001	1
Henry Lamotte/Noweda	Almond oil, refined	8003167001	1
Henry Lamotte/Noweda	Olive oil, native	8003420001	1
Henry Lamotte/Noweda	Olive oil, native	8003580002	2
Henry Lamotte/Noweda	Almond oil, refined	8003885002	8
Henry Lamotte/Noweda	Codliver oil (type A)	8003906002	1
Henry Lamotte/Noweda	Almond oil, refined	8004039003	3
Henry Lamotte/Noweda	Olive oil, native	8004251002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/Noweda	Almond oil, refined	80043390001	2
Henry Lamotte/Noweda	Almond oil, refined	8004390001	6
Henry Lamotte/Noweda	Olive oil, native	8004499001	1
Henry Lamotte/Noweda	Almond oil, refined	8004548002	1
Henry Lamotte/Noweda	Almond oil, refined	8004548011	1
Henry Lamotte/Noweda	Almond oil, refined	8004548022	1
Henry Lamotte/Noweda	Codliver oil (type A)	8004742002	2
Henry Lamotte/Noweda	Codliver oil (type A)	8004742003	3
Henry Lamotte/Noweda	Olive oil, native	8004827001	1
Henry Lamotte/Noweda	Almond oil, refined	8005803006	2
Henry Lamotte/PH	Sesame oil, refined	1000010906	1
Henry Lamotte/Phoenix	Peanut oil, refined	1000010888	1
Henry Lamotte/Phoenix	Peanut oil, refined	1000012961	2
Henry Lamotte/Phoenix	Almond oil, refined	1000013565	1
Henry Lamotte/Phoenix	Peanut oil, refined	1000014700	1
Henry Lamotte/Phoenix	Almond oil, refined	1000017183	1
Henry Lamotte/Phoenix	Codliver oil (type A)	1000017673	1
Henry Lamotte/Phoenix	Evening primrose oil, refined	18009110	1
Henry lamotte/Phoenix	Codliver oil (type A)	8000918001	3
Henry Lamotte/Phoenix	Codliver oil (type A)	8001176004	1
Henry Lamotte/Phoenix	Olive oil, native	8001431001	1
Henry Lamotte/Phoenix	Olive oil, native	8001948002	1
Henry Lamotte/Phoenix	Almond oil, refined	8002675001	1
Henry Lamotte/Phoenix	Olive oil, native	8004499001	1
Henry Lamotte/Phoenix1	Almond oil, refined	8001497001	1
Henry Lamotte/Phönix	Almond oil, refined	1000003242	1
Henry Lamotte/Phönix	Olive oil, native	1000004908	1
Henry Lamotte/Phönix	Flaxseed oil, native	1000009915	1
Henry Lamotte/Phönix	Almond oil, refined	1000010685	1
Henry Lamotte/Phönix	Olive oil, native	1000010861	1
Henry Lamotte/Phönix	Almond oil, refined	1000012126	1
Henry Lamotte/Phönix	Peanut oil, refined	1000012961	1
Henry Lamotte/Phönix	Peanut oil, refined	1000013112	1
Henry Lamotte/Phönix	Olive oil, native	1000014032	1
Henry Lamotte/Phönix	Olive oil, native	1000016418	1
Henry Lamotte/Phönix	Almond oil, refined	1000017183	3
Henry Lamotte/Phönix	Peanut oil, refined	17169001	1
Henry Lamotte/Phönix	Almond oil, refined	5438301	1
Henry Lamotte/Phönix	Codliver oil (type A)	5878701	1
Henry Lamotte/Phönix	Codliver oil (type A)	8000601001	1
Henry Lamotte/Phönix	Olive oil, native	8001648001	1
Henry Lamotte/Phönix	Olive oil, native	8001948002	1
Henry Lamotte/Phönix	Peanut oil, refined	8001959001	1
Henry Lamotte/Phönix	Almond oil, refined	8002675001	3
Henry Lamotte/Phönix	Almond oil, refined	8003167001	3
Henry Lamotte/Phönix	Olive oil, native	8003420001	2
Henry Lamotte/Phönix	Almond oil, refined	8003503001	1
Henry Lamotte/Phönix	Codliver oil (type A)	8003727001	1
Henry Lamotte/Phönix	Almond oil, refined	8003885002	1
Henry Lamotte/Phönix	Almond oil, refined	8004039003	3
Henry Lamotte/Phönix	Almond oil, refined	8004390001	2
Henry Lamotte/Phönix	Olive oil, native	8004499001	1
Henry Lamotte/Phönix	Codliver oil (type A)	8005296002	1
Henry Lamotte/Phönix	Almond oil, refined	8005803007	3
Henry Lamotte/Phönix	Almond oil, refined	8005936002	1
Henry Lamotte/Poenix	Almond oil, refined	1000010093	1
Henry Lamotte/Poenix	Almond oil, refined	8003467001	1
Henry Lamotte/Poenix	Almond oil, refined	8004039003	1
Henry Lamotte/Pönix	Olive oil, native	1000012341	1
Henry Lamotte/Sana	Avocado oil, refined	1000001098	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte/Sanacorp	Almond oil, refined	1000010093	1
Henry Lamotte/Sanacorp	Olive oil, native	1000010808	2
Henry Lamotte/Sanacorp	Peanut oil, refined	1000010888	1
Henry Lamotte/Sanacorp	Olive oil, native	1000011651	1
Henry Lamotte/Sanacorp	Olive oil, native	1000012341	3
Henry Lamotte/Sanacorp	Olive oil, native	1000013127	1
Henry Lamotte/Sanacorp	Peanut oil, refined	1000014700	1
Henry Lamotte/Sanacorp	Olive oil, native	1000014704	1
Henry Lamotte/Sanacorp	Olive oil, native	1000016418	1
Henry Lamotte/Sanacorp	Olive oil, native	100013127	2
Henry Lamotte/Sanacorp	Codliver oil (type A)	123823	1
Henry Lamotte/Sanacorp	Sesame oil, refined	123826	1
Henry Lamotte/Sanacorp	Almond oil, refined	130145	1
Henry Lamotte/Sanacorp	Codliver oil (type A)	5529601	1
Henry Lamotte/Sanacorp	Sunflower oil, refined	5738004	1
henry lamotte/Sanacorp	Jojoba Oil, native	5756401	7
Henry Lamotte/Sanacorp	Sesame oil, refined	8000531001	1
Henry Lamotte/Sanacorp	Olive oil, native	8000652001	1
Henry Lamotte/Sanacorp	Almond oil, refined	8000915002	8
Henry Lamotte/Sanacorp	Almond oil, refined	8001497001	3
Henry Lamotte/Sanacorp	Olive oil, native	8003801001	1
Henry Lamotte/Sanacorp	Olive oil, native	8004067001	1
Henry Lamotte/Sanacorp	Almond oil, refined	8004390001	1
Henry Lamotte/Sanacorp	Olive oil, native	8004499001	1
Henry Lamotte/Spangro 2...	Codliver oil (type A)	8007109001	5
Henry Lamotte/Spangro	Almond oil, refined	8003167001	1
Henry Lamotte/Spangro	Codliver oil (type A)	8005296003	1
Henry Lamotte/V.d.L.	Codliver oil (type A)	5437202	1
Henry Lamotte	Olive oil, native		6
Henry Lamotte	Sesame oil, refined	10000009220	1
Henry Lamotte	Omega-3-fish oil	1000002451	1
Henry Lamotte	Almond oil, refined	1000002454	2
Henry Lamotte	Sesame oil, refined	1000002705	2
Henry Lamotte	Almond oil, refined	1000003242	13
Henry Lamotte	Flaxseed oil, native	1000003255	1
Henry Lamotte	Evening primrose oil, refined	1000003443	1
Henry Lamotte	Flaxseed oil, native	1000003598	1
Henry Lamotte	Codliver oil (type A)	1000004149L100	1
Henry Lamotte	Evening primrose oil, refined	1000004385	3
Henry Lamotte	Almond oil, refined	1000004431	3
Henry Lamotte	Evening primrose oil, refined	1000005123	5
Henry Lamotte	Sesame oil, refined	1000005858	1
Henry Lamotte	Borage oil, refined, stabili...	1000006595	1
Henry Lamotte	Evening primrose oil, refined	1000007046	1
Henry Lamotte	Sesame oil, refined	1000007221	2
Henry Lamotte	Sesame oil, refined	1000009220	1
Henry Lamotte	Olive oil, native	1000010090	2
Henry Lamotte	Almond oil, refined	1000010093	10
Henry Lamotte	Almond oil, refined	1000010685	11
Henry Lamotte	Olive oil, native	1000010808	1
Henry lamotte	Sunflower oil, refined	1000010859	4
Henry Lamotte	Sunflower oil, refined	1000010859	1
Henry Lamotte	Olive oil, native	1000010861	6
HENRY LAMOTTE	Olive oil, native	1000010861	1
Henry Lamotte	Peanut oil, refined	1000010888	3
Henry LAmotte	Peanut oil, refined	1000010888	1
Henry Lamotte	Sesame oil, refined	1000010906	2
Henry Lamotte	Olive oil, native	10000114032	1
Henry Lamotte	Olive oil, native	1000011651	1
Henry Lamotte	Almond oil, refined	1000012126	19

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte	Olive oil, native	1000012341	4
henry Lamotte	Olive oil, native	1000012617	1
Henry Lamotte	Olive oil, native	1000012617	3
Henry Lamotte	Peanut oil, refined	1000012961	4
Henry Lamotte	Almond oil, refined	1000013112	2
Henry LAmotte	Flaxseed oil, native	1000013291	1
Henry Lamotte	Almond oil, refined	1000013565	7
Henry Lamotte	Peanut oil, refined	1000013880	1
Henry Lamotte	Olive oil, native	1000014032	2
Henry Lamotte	Peanut oil, refined	1000014700	1
Henry Lamotte	Avocado oil, refined	100001532	1
Henry Lamotte	Sesame oil, refined	1000015599	1
Henry Lamotte	Peanut oil, refined	1000015783	1
Henry Lamotte	Sesame oil, refined	1000015959	1
Henry Lamotte	Olive oil, native	1000016418	3
Henry Lamotte	Peanut oil, refined	1000017094	1
Henry Lamotte	Jojoba Oil, native	1000017116	1
Henry Lamotte	Almond oil, refined	1000017183	3
Henry lamotte	Sunflower oil, refined	10000180859	1
Henry Lamotte	Evening primrose oil, refined	100005123	1
Henry Lamotte	Almond oil, refined	100012126	1
Henry Lamotte	Codliver oil (type A)	119929	1
Henry Lamotte	Almond oil, refined	12061302	1
Henry Lamotte	Evening primrose oil, refined	123121	1
Henry Lamotte	Borage oil, refined, stabili...	12345	1
Henry Lamotte	Sesame oil, refined	123826	1
Henry Lamotte	Sesame oil, refined	124494	1
Henry Lamotte	Avocado oil, refined	130143	1
Henry Lamotte	Almond oil, refined	130145	3
Henry Lamotte	Evening primrose oil, refined	14258616	1
Henry Lamotte	Borage oil, refined, stabili...	145579	1
Henry Lamotte	Borage oil, refined, stabili...	145678	2
henry lamotte	Evening primrose oil, refined	150827	3
Henry Lamotte	Evening primrose oil, refined	160502701	1
Henry Lamotte	Olive oil, native	16327402	1
Henry Lamotte	Almond oil, refined	17042209	1
Henry Lamotte	Peanut oil, refined	17042802	1
Henry Lamotte	Almond oil, refined	18015002	1
Henry Lamotte	Codliver oil (type A)	18101303	1
Henry Lamotte	Avocado oil, refined	19000459003	1
Henry Lamotte	Olive oil, native	191015090511	2
Henry Lamotte	Codliver oil (type A)	20021413	1
Henry Lamotte	Codliver oil (type A)	26111303	1
Henry Lamotte	Codliver oil (type A)	26111402	1
Henry Lamotte	Sesame oil, refined	2705	1
Henry Lamotte	Sesame oil, refined	2x5639301	1
Henry Lamotte	Codliver oil (type A)	5029207	1
Henry Lamotte	Olive oil, native	5107101	1
Henry Lamotte	Almond oil, refined	5177001	2
Henry Lamotte	Jojoba Oil, native	5194301	1
Henry Lamotte	Peanut oil, refined	5204402	1
Henry Lamotte	Peanut oil, refined	520442	1
Henry Lamotte	Codliver oil (type A)	5228001	1
Henry Lamotte	Codliver oil (type A)	5228004	1
Henry Lamotte	Olive oil, native	5232201	1
Henry Lamotte	Olive oil, native	5271504	1
Henry Lamotte	Olive oil, native	5272401	3
Henry Lamotte	Sesame oil, refined	5319201	1
Henry Lamotte	Almond oil, refined	5369301	1
Henry Lamotte	Borage oil, refined, stabili...	5402901	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte	Jojoba Oil, native	5404201	1
Henry Lamotte	Almond oil, refined	5415901	6
Henry Lamotte	Jojoba Oil, native	5429201	3
Henry Lamotte	Almond oil, refined	543802	1
Henry Lamotte	Almond oil, refined	5438301	4
Henry Lamotte	Almond oil, refined	5438302	3
Henry Lamotte	Peanut oil, refined	5473601	1
Henry Lamotte	Almond oil, refined	5493001	3
Henry Lamotte	Sesame oil, refined	5514801	1
henry lamotte	Codliver oil (type A)	5529601	1
Henry Lamotte	Codliver oil (type A)	5529601	6
Henry Lamotte	Peanut oil, refined	5592601	1
Henry Lamotte	Almond oil, refined	5615001	4
Henry Lamotte	Almond oil, refined	5615003	3
Henry Lamotte	Almond oil, refined	5669601	1
Henry Lamotte	Olive oil, native	5671601	1
Henry Lamotte	Olive oil, native	5671901	3
henry lamotte	Almond oil, refined	5675003	1
henry lamotte	Codliver oil (type A)	5693101	1
Henry Lamotte	Peanut oil, refined	5697901	2
Henry Lamotte	Peanut oil, refined	5699601	2
Henry Lamotte	Almond oil, refined	5703101	4
Henry Lamotte	Jojoba Oil, native	5732801	1
Henry Lamotte	Olive oil, native	5734701	1
Henry Lamotte	Sunflower oil, refined	5738004	1
Henry Lamotte	Sesame oil, refined	5744101	1
Henry Lamotte	Almond oil, refined	5748401	2
henry lamotte	Almond oil, refined	5748601	1
Henry Lamotte	Almond oil, refined	5748601	9
Henry Lamotte	Olive oil, native	5813601	2
Henry Lamotte	Sesame oil, refined	5872901	1
Henry Lamotte	Codliver oil (type A)	5878701	3
Henry Lamotte	Olive oil, native	5891202	1
Henry Lamotte	Peanut oil, refined	5904100001	2
Henry Lamotte	Jojoba Oil, native	5913600001	3
Henry Lamotte	Almond oil, refined	5919600001	11
Henry Lamotte	Olive oil, native	5921100001	1
Henry Lamotte	Peanut oil, refined	611Erdnuss	1
Henry Lamotte	Codliver oil (type A)	75860	1
Henry Lamotte	Codliver oil (type A)	80000601001	1
Henry Lamotte	Sesame oil, refined	8000531001	1
Henry Lamotte	Codliver oil (type A)	8000601001	4
Henry Lamotte	Codliver oil (type A)	800060101	1
Henry Lamotte	Olive oil, native	8000652001	1
Henry Lamotte	Peanut oil, refined	8000666005	3
henry lamotte	Almond oil, refined	8000712001	3
Henry lamotte	Almond oil, refined	8000712001	1
Henry Lamotte	Almond oil, refined	8000712001	10
Henry Lamotte	Almond oil, refined	8000725001	3
Henry Lamotte	Olive oil, native	8000821001	2
henry lamotte	Almond oil, refined	8000915001	1
Henry Lamotte	Almond oil, refined	8000915001	5
Henry Lamotte	Almond oil, refined	8000915002	4
Henry Lamotte	Codliver oil (type A)	8000918001	4
Henry Lamotte	Codliver oil (type A)	8001176004	2
Henry Lamotte	Codliver oil (type A)	8001215002	12
Henry Lamotte	Sunflower oil, refined	8001230001	1
henry lamotte	Almond oil, refined	8001497001	1
Henry Lamotte	Almond oil, refined	8001497001	9
Henry Lamotte	Almond oil, refined	8001548011	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte	Sesame oil, refined	8001557002	3
Henry Lamotte	Olive oil, native	8001560001	2
Henry Lamotte	Olive oil, native	8001648001	1
Henry Lamotte	Codliver oil (type A)	8001765001	3
Henry Lamotte	Codliver oil (type A)	8002468002	2
HENRY LAMOTTE	Codliver oil (type A)	8002468002	1
Henry lamotte	Sunflower oil, refined	8002491005	1
Henry Lamotte	Avocado oil, refined	8002616001	1
Henry Lamotte	Almond oil, refined	8002653001	10
Henry Lamotte	Olive oil, native	8002656001	1
Henry Lamotte	Almond oil, refined	8002675001	4
Henry Lamotte	Almond oil, refined	8003167001	11
Henry Lamotte	Almond oil, refined	8003503001	7
Henry Lamotte	Almond oil, refined	8003503002	5
Henry Lamotte	Olive oil, native	8003580002	1
Henry lamotte	Sunflower oil, refined	8003598001	4
Henry Lamotte	Codliver oil (type A)	8003727001	8
Henry Lamotte	Codliver oil (type A)	80037277001	1
Henry Lamotte	Olive oil, native	8003801001	1
Henry Lamotte	Almond oil, refined	8003885002	5
Henry Lamotte	Codliver oil (type A)	8003906001	1
Henry Lamotte	Codliver oil (type A)	8003906002	1
Henry Lamotte	Almond oil, refined	8004039003	5
Henry Lamotte	Olive oil, native	8004067001	3
HENRY LAMOTTE	Olive oil, native	8004067001	1
Henry Lamotte	Olive oil, native	8004251002	1
Henry lamotte	Sunflower oil, refined	8004261004	2
Henry Lamotte	Almond oil, refined	8004390001	6
Henry Lamotte	Olive oil, native	800449001	1
Henry Lamotte	Olive oil, native	8004499001	4
Henry Lamotte	Almond oil, refined	8004548002	5
Henry Lamotte	Almond oil, refined	8004548007	2
Henry Lamotte	Almond oil, refined	8004548011	11
Henry Lamotte	Almond oil, refined	800458011	1
Henry Lamotte	Codliver oil (type A)	8004742002	1
Henry Lamotte	Codliver oil (type A)	8004742003	1
Henry Lamotte	Olive oil, native	8004827001	2
HENRY LAMOTTE	Codliver oil (type A)	8005296002	1
Henry Lamotte	Codliver oil (type A)	8005296003	1
Henry Lamotte	Almond oil, refined	8005803006	7
Henry Lamotte	Almond oil, refined	8005803007	7
henry lamotte	Almond oil, refined	8005936002	1
Henry Lamotte	Almond oil, refined	8005936002	8
Henry Lamotte	Almond oil, refined	8007584002	6
Henry Lamotte	Codliver oil (type A)	800765001	1
Henry Lamotte	Peanut oil, refined	F01_3659106	1
Henry Lamotte;VDL; 22,5...	Codliver oil (type A)	8000601001	1
Henry LamotteOils/Gehe	Almond oil, refined	8004039003	1
Henry Lamtte Oils GmbH	Flaxseed oil, native	1000005198	1
Henry Laotte/Anzag	Olive oil, native	8004499001	1
Henry Laotte/Phönix	Olive oil, native	20001867	1
Henry Lomoote/Gehe	Olive oil, native	8004067001	1
Henry Lomoote/Noweda	Sesame oil, refined	1000002705	1
Henry Lomoote/Noweda	Olive oil, native	1000010861	1
henry lsmotte oils g	Almond oil, refined	690454	1
Henry, Noweda	Olive oil, native	5232201	1
Henry/Gehe	Olive oil, native	8001854001	1
Henry/Jenne	Flaxseed oil, native	103277	3
Henry/Krieger	Almond oil, refined	8003885002	3
Henry/Krieger	Almond oil, refined	8004390001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry/Noweda	Sesame oil, refined	1000010906	4
Henry/Noweda	Sesame oil, refined	1000013957	5
Henry/Phönix	Almond oil, refined	1000004431	1
Henry/Phönix	Olive oil, native	1000010090	1
Henry/phönix	Almond oil, refined	1000010093	1
Henry/phönix	Almond oil, refined	8002653001	1
Henry/phönix	Peanut oil, refined	8003146001	1
Henry/Phönix	Almond oil, refined	8003167001	2
Henry/Phönix	Olive oil, native	8004067001	1
Henry/sana	Peanut oil, refined	65295	1
Henry	Borage oil, refined, stabili...	1000006205	1
henry	Flaxseed oil, native	1000006801	1
henry	Almond oil, refined	8003167001	1
henry	Almond oil, refined	8004039003	1
Henry-Lamotte Oils GmbH	Peanut oil, refined	1000010888	1
HenryLamotte/ Anzag	Almond oil, refined	8004548011	1
HenryLamotte/ Phönix	Almond oil, refined	1000010685	1
HenryLamotte/AHD	Olive oil, native	1000010861	1
HenryLamotte/AHD	Olive oil, native	1000012617	1
HenryLamotte/AHD	Olive oil, native	8002821001	1
HenryLamotte/AHD	Olive oil, native	8003801001	1
HenryLamotte/AHD	Olive oil, native	8004499001	1
HenryLamotte/Alliance H...	Olive oil, native	800358002	1
HenryLamotte/Alliance H...	Almond oil, refined	8003885002	1
HenryLamotte/Alliance H...	Almond oil, refined	8004548002	1
HenryLamotte/Gehe	Almond oil, refined	130145	3
HenryLamotte/Gehe	Codliver oil (type A)	8004742003	1
HenryLamotte/Gehe	Codliver oil (type A)	8005296003	6
HenryLamotte/Gehe	Codliver oil (type A)	8006235003	1
HenryLamotte/Noweda	Olive oil, native	1000004908	5
Henry-Lamotte/Noweda	Sesame oil, refined	1000007221	2
Henrylamotte/Noweda	Olive oil, native	1000010090	1
HenryLamotte/noweda	Almond oil, refined	1000010685	2
HenryLamotte/Noweda	Almond oil, refined	1000010685	1
HenryLamotte/Noweda	Almond oil, refined	1000012126	1
HenryLamotte/noweda	Almond oil, refined	8000915002	1
HenryLamotte/Noweda	Codliver oil (type A)	8002338002	2
HenryLamotte/Noweda	Olive oil, native	8002827001	1
HenryLamotte/Noweda	Almond oil, refined	8004039003	1
HenryLamotte/Noweda	Olive oil, native	8004067001	1
HenryLamotte/Noweda	Almond oil, refined	8004390001	1
HenryLamotte/noweda	Almond oil, refined	800448011	1
HenryLamotte/Noweda	Olive oil, native	8004499001	3
HenryLamotte/Noweda	Almond oil, refined	8004548011	1
HenryLamotte/Noweda	Almond oil, refined	800458011	1
HenryLamotte/Noweda	Codliver oil (type A)	8005296002	1
HenryLamotte/Noweda	Codliver oil (type A)	8005296003	1
HenryLamotte/Noweda	Almond oil, refined	8005803007	2
HenryLamotte/Noweda	Almond oil, refined	8005936002	4
HenryLamotte/Noweda	Codliver oil (type A)	8007109001	1
HenryLamotte/Phoenix	Almond oil, refined	1000010093	2
HenryLamotte/Phoenix	Avocado oil, refined	130143	1
HenryLamotte/Phoenix	Sesame oil, refined	5135601	1
HenryLamotte/Phoenix	Peanut oil, refined	5231601	1
HenryLamotte/Phoenix	Almond oil, refined	5269301	2
HenryLamotte/Phoenix	Olive oil, native	5272401	4
HenryLamotte/Phoenix	Codliver oil (type A)	8003906001	1
HenryLamotte/Phoenix	Almond oil, refined	8004039003	1
HenryLamotte/Phoenix	Almond oil, refined	8004390001	2
HenryLamotte/Phoenix	Codliver oil (type A)	8004742002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
HenryLamotte/Phönix	Almond oil, refined	8002653001	1
HenryLamotte/Phönix	Olive oil, native	8002827001	1
HenryLamotte/Phönix	Olive oil, native	8004499001	1
HenryLamotte/Sanacorp	Olive oil, native	1000010861	3
HenryLamotte/Sanacorp	Olive oil, native	1000012617	2
HenryLamotte/Sanacorp	Olive oil, native	1000014032	2
HenryLamotte/Sanacorp	Olive oil, native	1000016418	1
HenryLamotte/Sanacorp	Jojoba Oil, native	8000469001	1
HenryLamotte	Almond oil, refined	1000017183	1
HenryLamotte	Jojoba Oil, native	4957101	1
HenryLamotte	Jojoba Oil, native	5172601	9
HenryLamotte	Jojoba Oil, native	5194301	1
HenryLamotte	Olive oil, native	5232201	2
HenryLamotte	Almond oil, refined	8001497001	1
HenryLamotteOils/Gehe	Almond oil, refined	8003503001	1
HenryLamotteOils	Sesame oil, refined	1000003864	1
HenryLamotteOilsGmbH/Ph...	Almond oil, refined	5438302	2
Hepart AG	Walnut oil, refined	12214904	1
Herbasinica	Almond oil, refined	14042707	2
Herny Lamotte	Jojoba Oil, native	5732801	1
HerryLamotte GmbH	Olive oil, native	1000010861	1
Hery Lamotte oils GmbH	Almond oil, refined	1000013112	1
Hery Lamotte/AEP	Peanut oil, refined	1000015783	1
HL/N/25.02.13 PZN:3649899	Olive oil, native	5283901	1
Hnery Lamotte	Almond oil, refined	8004548002	1
Holdermann/Henry Lamott...	Almond oil, refined	5162801	2
Holdermann	Grape seed oil, refined	12149212	1
Holdermann	Avocado oil, refined	13361406	1
Holdermann	Almond oil, refined	15078403	1
Hubertus Apotheke	Oleyl oleate (stabilised)	15410207	1
Ichthyl Phönix	Evening primrose oil, refined	12112912	1
Ichthyl Phönix	Wheatgerm oil, refined	12220302	1
Ichthyol/ AEP	Evening primrose oil, refined	18216212	1
Ichthyol/Phönix	Olive oil, native	274236	1
ICRON	Flaxseed oil, native	170501A	1
Idunn	Grape seed oil, refined	20182102	1
J.H. Müller	Olive oil, native	140115	1
J.H. Müller	Sunflower oil, refined	140229	1
J.H. Müller	Evening primrose oil, refined	140419	1
J.H.Müller/direkt/01.08...	Almond oil, refined	130327	2
J.H.Müller/direkt/17.05...	Almond oil, refined	130103	1
J.H.Müller/direkt/17.05...	Evening primrose oil, refined	130127	1
J.H.Müller/direkt/17.05...	Borage oil, refined, stabili...	130302	1
J.H.Müller	Evening primrose oil, refined	170832	1
J.H.Müller	Evening primrose oil, refined	171220	1
J.H.Müller	Evening primrose oil, refined	180234	1
Jenne/Gall Pharma	Codliver oil (type A)		1
Jenne/HenryLamotte	Almond oil, refined	8005936002	1
Jenne	Wheatgerm oil, refined		1
jenne	Almond oil, refined	1000010685	1
Jenne	Evening primrose oil, refined	1210012-02	1
Jenne	Peanut oil, refined	16071104	1
JENNE	Jojoba Oil, native	17073309	1
Jenne	Sesame oil, refined	17177703	1
Jenne	Sunflower oil, refined	17242101	1
JENNE	Shea butter, refined	17287510	1
JENNE	Olive oil, native	17361108	1
Jenne	Sunflower oil, refined	18027005	1
Jenne	Almond oil, refined	18070602	1
Jenne	Olive oil, native	18208101	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Jenne	Olive oil, native	18208106	1
Jenne	Almond oil, refined	19000779004	1
Jenne	Evening primrose oil, refined	19164401	1
Jenne	Evening primrose oil, refined	192982002	1
Jenne	Almond oil, refined	20001624012	1
Jenne	Evening primrose oil, refined	2008037-01	1
Jenne	Codliver oil (type A)	8003727001	1
Kastner	Peanut oil, refined	5592601	2
Kehr / Lamotte	Almond oil, refined	50115PML01	1
Kehr / Lamotte	Almond oil, refined	5214206	1
Kehr/Henry Lamotte	Olive oil, native	8003801001	1
Kehr	Evening primrose oil, refined	16281308	3
Kehr	Evening primrose oil, refined	16281313	1
Kehr	Evening primrose oil, refined	1704018-01	4
Kehr	Evening primrose oil, refined	1710011-01	1
Kehr	Evening primrose oil, refined	1911009-01	1
Kehr	Olive oil, native	308229	1
Kehr	Jojoba Oil, native	8000469001	1
Kehr	Almond oil, refined	8004039003	1
Klenk	Evening primrose oil, refined	12112905	1
Klenk	Codliver oil (type A)	17344601	1
Klenk	Peanut oil, refined	18296009	1
Klenk	Almond oil, refined	5269301	2
Kögl	Almond oil, refined		1
Kögl	Almond oil, refined	109704172417	1
Kögl	Codliver oil (type A)	13202170617	2
Kögl	Avocado oil, refined	159805171917	3
Kögl	Evening primrose oil, refined	161805171917	2
Kögl	Evening primrose oil, refined	1700100	1
Kögl	Almond oil, refined	1700173	2
Kögl	Codliver oil (type A)	1700194	2
Kögl	Olive oil, native	1700561	1
Kögl	Jojoba Oil, native	1700876	7
Kögl	Sesame oil, refined	1700881	2
Kögl	Almond oil, refined	1701192	1
Kögl	Peanut oil, refined	1701232	1
Kögl	Almond oil, refined	1701851	1
Kögl	Sesame oil, refined	1702060	1
Kögl	Avocado oil, refined	1702199	2
Kögl	Evening primrose oil, refined	1702248	1
Kögl	Olive oil, native	1702444	2
Kögl	Peanut oil, refined	1800078	1
Kögl	Almond oil, refined	1800278	1
Kögl	Avocado oil, refined	1800426	4
Kögl	Almond oil, refined	1800813	1
Kögl	Codliver oil (type A)	1800814	4
Kögl	Evening primrose oil, refined	1800988	1
Kögl	Peanut oil, refined	1801368	1
Kögl	Peanut oil, refined	1801916	2
Kögl	Evening primrose oil, refined	1802062	1
Kögl	Jojoba Oil, native	1802131	1
Kögl	Codliver oil (type A)	1802500	2
Kögl	Almond oil, refined	1802929	2
Kögl	Olive oil, native	1803441	1
Kögl	Avocado oil, refined	20171598	2
Kögl	Olive oil, native	20172174	2
Kögl	Almond oil, refined	20172414	2
Kögl	Peanut oil, refined	216906172917	1
Kögl	Codliver oil (type A)	242207172717	2
Kögl	Jojoba Oil, native	25302170717	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Kögl	Jojoba Oil, native	25302171717	3
Kögl	Almond oil, refined	267608164216	1
Kögl	Olive oil, native	300609163816	1
Kögl	Olive oil, native	300609164116	1
Kögl	Sesame oil, refined	303709163816	1
Kögl	Codliver oil (type A)	355510164416	1
Kögl	Almond oil, refined	373411164816	1
Kögl	Peanut oil, refined	393021711179	1
Kögl	Peanut oil, refined	39302171717	1
Kögl	Avocado oil, refined	407211161117	2
Kögl	Avocado oil, refined	407211164916	1
Kögl	Peanut oil, refined	425612165116	3
Kögl	Jojoba Oil, native	432212160117	2
Kögl	Jojoba Oil, native	432212165116	1
Kögl	Olive oil, native	44102170917	2
Kögl	Olive oil, native	44102171417	1
Kögl	Evening primrose oil, refined	446412160317	1
Kögl	Almond oil, refined	485801170717	1
Kögl	Almond oil, refined	65903171117	1
Krieger/Henry Lamotte	Flaxseed oil, native	1000010463	1
Krieger/Lamotte	Almond oil, refined	8001497001	1
Krieger	Almond oil, refined	13350006	1
Krieger	Olive oil, native	17361101	1
Krieger	Almond oil, refined	19000779001	1
Kriger/Lamotte/06.01.14	Almond oil, refined	5438302	1
Kriger/Lamotte/30.12.13	Flaxseed oil, native	102503	1
L 20/ Henry Lamotte	Almond oil, refined	1000004431	1
L 20/ Henry Lamotte	Almond oil, refined	8002653001	2
L10/HENRY LAMOTTE	Almond oil, refined	8003167001	1
L10	Sesame oil, refined	1000007221	1
L10	Evening primrose oil, refined	1703020-01	1
L12/Henry Lamotte	Sesame oil, refined	1000005858	3
L12/Henry Lamotte	Almond oil, refined	8001497001	5
L12/Henry Lamotte	Sesame oil, refined	8001557002	2
L12	Sesame oil, refined	10000007221	1
L12	Sesame oil, refined	1000002705	2
L12	Sesame oil, refined	1000009220	4
L12	Laurel oil	16275702	1
L12	Olive oil, native	16327402	1
L12	Olive oil, native	1637402	1
L12	Evening primrose oil, refined	1704018-01	2
L12	Oleyl oleate (stabilised)	17358103	1
L12	Borage oil, refined, stabili…	17361804	2
L12	Jojoba Oil, native	18057105	1
L12	Grape seed oil, refined	18065207	1
L12	Decyl oleate	18069402	1
L12	Peanut oil, refined	18208202	2
L12	Peanut oil, refined	18208207	2
L12	Almond oil, refined	8002675001	1
L12	Sesame oil, refined	8002939002	2
L12	Almond oil, refined	8003167001	4
L12	Almond oil, refined	E1712007	1
L20/ Henry Lamotte	Almond oil, refined	8002675001	1
L20/ Henry Lamotte	Almond oil, refined	8003503002	1
L20/Lamotte	Almond oil, refined	1000003242	1
L30	Almond oil, refined	E1603022	1
La Cura Wilco	Jojoba Oil, native	2481	1
LABORCHEMIE APOLDA GmbH…	Avocado oil, refined	8001641001	1
Lam / Now	Codliver oil (type A)	8001765001	1
Lam	Codliver oil (type A)	5878701	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lametto/Alliance	Almond oil, refined	8004548011	1
Lamolle/Phoenix	Peanut oil, refined	10000012961	1
Lamotte / Sanacorp	Codliver oil (type A)	80024680025600	1
Lamotte Jenne	Codliver oil (type A)	5228004	2
Lamotte / 2	Olive oil, native	1000013127	1
Lamotte / AHC	Almond oil, refined	1000003242	1
Lamotte / AHC	Almond oil, refined	1000010093	1
Lamotte / AHC	Olive oil, native	1000010808	1
Lamotte / AHC	Olive oil, native	1000012341	1
Lamotte / AHD	Olive oil, native	8002827001	1
Lamotte / Anzag	Olive oil, native	1000016418	1
Lamotte / Anzag	Peanut oil, refined	1000017094	1
Lamotte / Anzag	Almond oil, refined	8004548002	1
Lamotte / Anzag	Almond oil, refined	8005936002	1
Lamotte / Gehe	Sesame oil, refined	1000007221	3
Lamotte / GEHE	Sesame oil, refined	1000009220	2
Lamotte / Gehe	Almond oil, refined	1000010685	2
Lamotte / Gehe	Almond oil, refined	1000013565	1
Lamotte / Gehe	Evening primrose oil, refined	123121	3
Lamotte / Gehe	Evening primrose oil, refined	123386	7
Lamotte / Gehe	Evening primrose oil, refined	124363	4
Lamotte / Gehe	Avocado oil, refined	130193	1
Lamotte / Gehe	Evening primrose oil, refined	145553	5
Lamotte / Gehe	Evening primrose oil, refined	145675	4
Lamotte / Gehe	Evening primrose oil, refined	145802	9
Lamotte / Gehe	Evening primrose oil, refined	150827	4
Lamotte / Gehe	Almond oil, refined	3968/V03/14	1
Lamotte / Gehe	Olive oil, native	5127501	1
Lamotte / Gehe	Olive oil, native	5283901	2
Lamotte / Gehe	Olive oil, native	5372701	2
Lamotte / Gehe	Peanut oil, refined	5404101	1
Lamotte / Gehe	Olive oil, native	5470202	1
Lamotte / Gehe	Almond oil, refined	5615001	1
Lamotte / Gehe	Codliver oil (type A)	5693101	1
Lamotte / Gehe	Almond oil, refined	5703101	2
Lamotte / Gehe	Olive oil, native	5734701	1
Lamotte / Gehe	Almond oil, refined	8000725001	2
Lamotte / Gehe	Olive oil, native	8003420001	1
Lamotte / Gehe	Codliver oil (type A)	8003727001	1
Lamotte / Gehe	Almond oil, refined	8003885002	2
Lamotte / Gehe	Olive oil, native	8004251002	2
Lamotte / Gehe	Codliver oil (type A)	8005296002	1
Lamotte / Gehe	Codliver oil (type A)	8007109001	1
Lamotte / Gehe	Olive oil, native	L901	1
Lamotte / Noweda	Almond oil, refined	1000003242	2
Lamotte / Noweda	Almond oil, refined	1000010685	3
Lamotte / Noweda	Olive oil, native	1000010808	4
Lamotte / Noweda	Almond oil, refined	1000012126	1
Lamotte / Noweda	Almond oil, refined	1000013565	2
Lamotte / Noweda	Olive oil, native	1000017819	1
Lamotte / Noweda	Olive oil, native	124392	1
Lamotte / Noweda	Evening primrose oil, refined	145581	3
Lamotte / Noweda	Almond oil, refined	5615001	1
Lamotte / Noweda	Almond oil, refined	5615003	1
Lamotte / Noweda	Almond oil, refined	5748601	2
Lamotte / Noweda	Almond oil, refined	8001497001	2
Lamotte / Noweda	Almond oil, refined	8003167001	1
Lamotte / Noweda	Almond oil, refined	8004390001	1
Lamotte / Noweda	Almond oil, refined	8004548002	2
Lamotte / Noweda	Codliver oil (type A)	8004742003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte / Noweda	Codliver oil (type A)	8005296003	1
Lamotte / Noweda	Almond oil, refined	8005936002	1
Lamotte / Phoenix	Almond oil, refined	8004548011	1
Lamotte / phönix	Avocado oil, refined	1000004363	1
Lamotte / Phönix	Peanut oil, refined	1000010888	1
Lamotte / Phönix	Borage oil, refined, stabili...	5594400001	1
Lamotte / Phönix	Olive oil, native	8001431001	1
Lamotte / Phönix	Almond oil, refined	8004390001	1
Lamotte / Sanacorp	Sesame oil, refined	10000010906	2
Lamotte / Sanacorp	Olive oil, native	1000012617	1
Lamotte / Sanacorp	Almond oil, refined	1000013565	1
Lamotte / Sanacorp	Olive oil, native	1000014032	2
Lamotte / Sanacorp	Olive oil, native	1000016418	1
Lamotte / Sanacorp	Olive oil, native	5283901	1
lamotte / Sanacorp	Almond oil, refined	5615003	1
Lamotte / Sanacorp	Codliver oil (type A)	8000601001	1
Lamotte / Sanacorp	Codliver oil (type A)	8000918001	4
Lamotte / Sanacorp	Almond oil, refined	8002675001	4
Lamotte / Sanacorp	Codliver oil (type A)	Lamotte8000918001	1
Lamotte /Noweda	Olive oil, native	8001854001	1
Lamotte /Phoenix	Almond oil, refined	8003167001	1
Lamotte /Phönix	Avocado oil, refined	8002616001	1
Lamotte /Sanacorp	Almond oil, refined	1000010685	1
Lamotte GmbH	Avocado oil, refined	1000001451	1
Lamotte Gmbh	Olive oil, native	8001948002	1
Lamotte Henry	Almond oil, refined	1000004431	1
Lamotte Henry	Codliver oil (type A)	8001176004	1
lamotte jenne	Codliver oil (type A)	8000601001	1
lamotte noweda,	Almond oil, refined	5615001	1
Lamotte Noweda	Almond oil, refined	1000010093	1
Lamotte Noweda	Olive oil, native	8004499001	1
Lamotte Noweda	Almond oil, refined	8004548002	3
Lamotte Noweda	Almond oil, refined	8005936002	6
Lamotte Oils GmbH / E	Codliver oil (type A)	5437202	2
Lamotte Oils GmbH / G	Codliver oil (type A)	5228004	1
lamotte oils GmbH /Gehe	Peanut oil, refined	1000010888	1
Lamotte Phönix	Almond oil, refined	1000010093	1
Lamotte Phönix	Almond oil, refined	5214206	1
Lamotte Phönix	Olive oil, native	5271504	1
Lamotte Phönix	Olive oil, native	5272401	2
Lamotte Sanacorp	Jojoba Oil, native	5913600001	1
Lamotte Sanacorp	Jojoba Oil, native	8000469001	6
Lamotte über Noweda	Sesame oil, refined	1000002705	1
Lamotte über Phoenix	Sesame oil, refined	5639301	2
Lamotte über Phoenix	Almond oil, refined	5703001	1
Lamotte über Phoenix	Almond oil, refined	5748601	3
Lamotte über Phoenix	Sesame oil, refined	5821001	1
Lamotte über Phoenix	Sesame oil, refined	5872001	1
Lamotte über Phoenix	Sesame oil, refined	5872901	2
Lamotte über Phoenix	Sesame oil, refined	8000682001	2
Lamotte über Phoenix	Almond oil, refined	8000712001	2
Lamotte über Phoenix	Almond oil, refined	8000725001	1
Lamotte über Sanacorp	Borage oil, refined, stabili...	125354	1
Lamotte über Sanacorp	Codliver oil (type A)	5641901	1
Lamotte über Sanacorp	Almond oil, refined	8000915001	3
Lamotte über Sanacorp	Almond oil, refined	8000915002	1
Lamotte, Bremen/ Phönix	Olive oil, native	1000011651	1
Lamotte, Bremen	Olive oil, native	1000012341	1
Lamotte, Bremen	Olive oil, native	1000013127	1
Lamotte/ Alliance 28.0...	Almond oil, refined	1000013565	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/ Alliance	Sesame oil, refined	1000009220	1
Lamotte/ Alliance	Codliver oil (type A)	8004742002	1
Lamotte/ Anzag	Codliver oil (type A)	1000011373	1
Lamotte/ Anzag	Olive oil, native	5271504	1
Lamotte/ Anzag	Olive oil, native	5470202	2
Lamotte/ Anzag	Almond oil, refined	8002653001	1
Lamotte/ Anzag	Almond oil, refined	8003503001	2
Lamotte/ Anzag	Almond oil, refined	8004039003	1
Lamotte/ Gehe	Olive oil, native	1000011651	1
Lamotte/ Gehe	Almond oil, refined	8004548011	1
Lamotte/ Gehe	Almond oil, refined	8005803006	4
Lamotte/ Noweda	Sesame oil, refined	1000007221	1
Lamotte/ Noweda	Olive oil, native	1000010861	1
Lamotte/ Noweda	Sesame oil, refined	1000018237	1
Lamotte/ Noweda	Sesame oil, refined	123488	1
Lamotte/ Noweda	Almond oil, refined	5415901	1
Lamotte/ Noweda	Codliver oil (type A)	5437202	4
Lamotte/ Noweda	Almond oil, refined	5438301	1
Lamotte/ Noweda	Codliver oil (type A)	8000918001	2
Lamotte/ Noweda	Almond oil, refined	8001497001	3
Lamotte/ Noweda	Almond oil, refined	8002675001	1
Lamotte/ Noweda	Olive oil, native	8004067001	1
Lamotte/ Noweda	Codliver oil (type A)	8005296002	1
Lamotte/ Noweda	Codliver oil (type A)	A458	1
lamotte/ Phoenix	Sesame oil, refined	5744101	1
Lamotte/ Phoenix	Almond oil, refined	5748601	1
Lamotte/ Phoenix	Codliver oil (type A)	8001765001	2
Lamotte/ Phoenix	Codliver oil (type A)	8002338002	5
Lamotte/ Phoenix	Codliver oil (type A)	8003906001	1
Lamotte/ Phoenix	Codliver oil (type A)	8003906002	1
Lamotte/ Phönix	Almond oil, refined	5438302	1
Lamotte/ Sana	Almond oil, refined	5669601	1
Lamotte/ Sanacorb	Sesame oil, refined	1000013957	1
Lamotte/ Sanacorp	Codliver oil (type A)	5029207	1
Lamotte/ Sanacorp	Codliver oil (type A)	5693101	5
Lamotte/ Sanacorp	Codliver oil (type A)	8000601001	2
Lamotte/ Sanacorp	Codliver oil (type A)	8001176004	3
Lamotte/ Sanacorp	Codliver oil (type A)	8002338002	2
Lamotte/ Sanacorp	Almond oil, refined	8002675001	1
Lamotte/ Sanacorp	Almond oil, refined	8004039003	1
Lamotte/ Sanacorp	Almond oil, refined	8004548011	1
Lamotte/ Sanacorp	Codliver oil (type A)	8004742003	3
Lamotte//AHD	Evening primrose oil, refined	145581	2
Lamotte/	Almond oil, refined	8005803006	1
Lamotte/3	Almond oil, refined	5748401	1
Lamotte/AHD/28.01.2020	Olive oil, native	1000010861	1
Lamotte/AHD	Evening primrose oil, refined	10000001044	1
Lamotte/AHD	Evening primrose oil, refined	1000002386	1
Lamotte/AHD	Almond oil, refined	1000003242	2
Lamotte/AHD	Evening primrose oil, refined	1000004385	1
Lamotte/AHD	Evening primrose oil, refined	1000007046	1
Lamotte/AHD	Almond oil, refined	1000010685	1
Lamotte/AHD	Jojoba Oil, native	1000011858	1
Lamotte/AHD	Evening primrose oil, refined	145581	2
Lamotte/AHD	Almond oil, refined	8003503002	4
Lamotte/AHD	Almond oil, refined	8003885002	1
Lamotte/AHD	Olive oil, native	8004067001	1
Lamotte/AHD	Almond oil, refined	8004548007	1
Lamotte/AHD	Almond oil, refined	8004548011	1
Lamotte/AHD	Codliver oil (type A)	8004742003	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Allia	Sesame oil, refined	1000009220	1
Lamotte/Allia	Almond oil, refined	1000013565	1
Lamotte/Allia	Peanut oil, refined	1000013880	5
Lamotte/Allia	Almond oil, refined	1000017183	1
Lamotte/Allia	Almond oil, refined	8004548011	2
Lamotte/Allia	Almond oil, refined	8005803006	1
Lamotte/Alliance 10.03....	Sesame oil, refined	1000010906	1
Lamotte/Alliance Health...	Peanut oil, refined	1000010888	1
Lamotte/Alliance	Evening primrose oil, refined	1000002386	1
Lamotte/Alliance	Sesame oil, refined	1000003864	2
Lamotte/Alliance	Borage oil, refined, stabili...	1000006595	2
Lamotte/Alliance	Evening primrose oil, refined	1000008469	1
Lamotte/Alliance	Almond oil, refined	1000010685	3
Lamotte/Alliance	Olive oil, native	1000010861	1
Lamotte/Alliance	Olive oil, native	1000012341	1
Lamotte/Alliance	Almond oil, refined	1000013565	2
Lamotte/Alliance	Olive oil, native	1000014032	1
Lamotte/Alliance	Olive oil, native	1000014704	1
Lamotte/Alliance	Codliver oil (type A)	1000017673	2
Lamotte/Alliance	Borage oil, refined, stabili...	125354	1
Lamotte/Alliance	Olive oil, native	5623601	1
Lamotte/Alliance	Olive oil, native	5891202	1
Lamotte/Alliance	Almond oil, refined	8002653001	1
Lamotte/Alliance	Almond oil, refined	8003167001	4
Lamotte/Alliance	Olive oil, native	8003420001	1
Lamotte/Alliance	Almond oil, refined	8003885002	1
Lamotte/Alliance	Almond oil, refined	8004039003	3
Lamotte/Alliance	Olive oil, native	8004499001	1
Lamotte/Alliance	Olive oil, native	8004827001	1
Lamotte/Anzag 12.06.2012	Almond oil, refined	5177001	1
Lamotte/Anzag	Sesame oil, refined	10000010906	1
Lamotte/Anzag	Almond oil, refined	1000004431	1
Lamotte/Anzag	Peanut oil, refined	1000010888	3
Lamotte/ANzag	Sesame oil, refined	1000010906	1
Lamotte/Anzag	Almond oil, refined	1000012126	1
Lamotte/Anzag	Sesame oil, refined	1000013957	1
Lamotte/Anzag	Peanut oil, refined	1000017094	1
Lamotte/Anzag	Almond oil, refined	130145	1
Lamotte/Anzag	Almond oil, refined	3516I-01950	1
lamotte/anzag	Almond oil, refined	5415901	3
Lamotte/Anzag	Olive oil, native	5671901	1
Lamotte/Anzag	Olive oil, native	5734701	1
Lamotte/Anzag	Olive oil, native	5813601	1
Lamotte/Anzag	Almond oil, refined	8000712001	4
Lamotte/Anzag	Codliver oil (type A)	8000918001	1
Lamotte/Anzag	Codliver oil (type A)	8002338002	2
Lamotte/Anzag	Almond oil, refined	8002653001	1
Lamotte/Anzag	Almond oil, refined	8002675001	2
Lamotte/Anzag	Codliver oil (type A)	8003727001	1
Lamotte/Anzag	Codliver oil (type A)	8003906002	1
Lamotte/Anzag	Codliver oil (type A)	800472002	1
Lamotte/Anzag	Almond oil, refined	8005936002	1
Lamotte/E&J	Sesame oil, refined	1000005858	1
Lamotte/Ebert&Jacobi	Almond oil, refined	5919600001	1
Lamotte/Ebert	Almond oil, refined	1000003242	1
Lamotte/Ebert	Almond oil, refined	5415901	1
Lamotte/Ebert	Almond oil, refined	8000725001	1
Lamotte/Ebert	Almond oil, refined	8000915001	1
Lamotte/Ebert	Almond oil, refined	8003167001	1
Lamotte/Ebert	Olive oil, native	8003420001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Ebert	Almond oil, refined	8003503002	2
Lamotte/Ebert	Olive oil, native	8003580002	1
Lamotte/Ebert	Olive oil, native	8003801001	1
Lamotte/Ebert	Almond oil, refined	8004039003	3
Lamotte/Ebert+Jacobi	Almond oil, refined	8004039003	2
Lamotte/Fiebig 22.11....	Peanut oil, refined	1000015783	1
Lamotte/Fiebig 03.04.2...	Almond oil, refined	8005936002	1
Lamotte/Fiebig	Sesame oil, refined	100000386	1
Lamotte/Fiebig	Sesame oil, refined	1000005858	1
Lamotte/Fiebig	Sesame oil, refined	1000007221	1
Lamotte/Fiebig	Almond oil, refined	1000010685	1
Lamotte/Fiebig	Sesame oil, refined	1000010906	1
Lamotte/Fiebig	Almond oil, refined	1000012126	1
Lamotte/Fiebig	Peanut oil, refined	1000014700	2
Lamotte/Fiebig	Olive oil, native	1000016418	1
Lamotte/Fiebig	Sesame oil, refined	18331301	1
Lamotte/Fiebig	Codliver oil (type A)	8001765001	4
Lamotte/Fiebig	Jojoba Oil, native	8002391001	3
Lamotte/gehe/03.02.21	Peanut oil, refined	1000012961	1
Lamotte/Gehe	Almond oil, refined	1000002454	1
Lamotte/Gehe	Almond oil, refined	1000003242	4
Lamotte/Gehe	Almond oil, refined	1000004431	2
Lamotte/Gehe	Almond oil, refined	1000010685	1
Lamotte/Gehe	Almond oil, refined	1000012126	4
Lamotte/Gehe	Almond oil, refined	1000013112	4
Lamotte/Gehe	Olive oil, native	1000013127	3
Lamotte/Gehe	Olive oil, native	1000014704	1
lamotte/Gehe	Codliver oil (type A)	123823	1
Lamotte/Gehe	Jojoba Oil, native	5172601	1
Lamotte/GEHE	Peanut oil, refined	5204402	1
Lamotte/gehe	Almond oil, refined	5214206	1
Lamotte/GEHE	Almond oil, refined	5269301	2
lamotte/Gehe	Olive oil, native	5271504	1
Lamotte/gehe	Almond oil, refined	5274206	1
lamotte/Gehe	Almond oil, refined	5415901	3
Lamotte/Gehe	Almond oil, refined	5415901	6
Lamotte/gehe	Codliver oil (type A)	5437202	4
Lamotte/GEHE	Codliver oil (type A)	5437202	7
Lamotte/Gehe	Almond oil, refined	5438302	1
Lamotte/GEHE	Almond oil, refined	5438302	3
lamotte/Gehe	Codliver oil (type A)	5529601	4
lamotte/Gehe	Peanut oil, refined	5592601	3
lamotte/Gehe	Almond oil, refined	5615001	1
Lamotte/Gehe	Almond oil, refined	5615001	3
Lamotte/Gehe	Almond oil, refined	5615003	7
lamotte/Gehe	Codliver oil (type A)	5641901	3
Lamotte/gehe	Codliver oil (type A)	5693101	3
Lamotte/Gehe	Codliver oil (type A)	5693101	3
Lamotte/Gehe	Almond oil, refined	5703101	2
Lamotte/Gehe	Jojoba Oil, native	5732801	1
Lamotte/Gehe	Almond oil, refined	5748401	2
Lamotte/Gehe	Almond oil, refined	5748601	5
Lamotte/Gehe	Codliver oil (type A)	5878701	1
Lamotte/Gehe	Codliver oil (type A)	8000601001	2
Lamotte/Gehe	Almond oil, refined	8000712001	2
Lamotte/Gehe	Almond oil, refined	8000725001	2
Lamotte/Gehe	Almond oil, refined	8000915002	3
Lamotte/Gehe	Codliver oil (type A)	8000918001	1
Lamotte/Gehe	Codliver oil (type A)	8001176004	1
Lamotte/Gehe	Codliver oil (type A)	8001215002	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
lamotte/gehe	Almond oil, refined	8001497001	2
Lamotte/Gehe	Almond oil, refined	8001497001	4
Lamotte/Gehe	Codliver oil (type A)	8002338002	3
Lamotte/Gehe	Codliver oil (type A)	8002468002	2
lamotte/gehe	Almond oil, refined	8002653001	2
Lamotte/Gehe	Almond oil, refined	8002653001	1
Lamotte/Gehe	Almond oil, refined	8002675001	2
lamotte/gehe	Almond oil, refined	8003167001	1
Lamotte/Gehe	Almond oil, refined	8003167001	1
Lamotte/Gehe	Almond oil, refined	8003503002	1
Lamotte/Gehe	Almond oil, refined	8003885002	1
Lamotte/gehe	Codliver oil (type A)	8003906001	1
Lamotte/Gehe	Codliver oil (type A)	8003906001	1
Lamotte/gehe	Codliver oil (type A)	8003906002	2
Lamotte/Gehe	Codliver oil (type A)	8003906002	1
Lamotte/Gehe	Almond oil, refined	8004039003	2
Lamotte/Gehe	Almond oil, refined	8004390001	1
Lamotte/Gehe	Almond oil, refined	8004548002	1
Lamotte/Gehe	Almond oil, refined	80045480032	1
Lamotte/Gehe	Almond oil, refined	8004548011	2
Lamotte/Gehe	Codliver oil (type A)	8005296002	1
Lamotte/Gehe	Codliver oil (type A)	8005296003	1
Lamotte/Gehe	Almond oil, refined	8005936002	5
Lamotte/Gehe	Almond oil, refined	8007461004	1
Lamotte/Gehe	Almond oil, refined	8007584002	1
Lamotte/Geibo	Codliver oil (type A)	8000918001	2
Lamotte/Geilenkirchen	Peanut oil, refined	1000010888	1
Lamotte/Geilenkirchen	Peanut oil, refined	1000013880	1
Lamotte/Geilenkirchen	Almond oil, refined	8003167001	2
Lamotte/GH/11.09.13	Olive oil, native	5271504	1
lamotte/Jenne	Peanut oil, refined	5404101	1
Lamotte/Jenne	Almond oil, refined	8004548002	1
Lamotte/Jenne	Almond oil, refined	8005936002	2
Lamotte/Kehr	Almond oil, refined	1000012126	1
Lamotte/Kehr	Olive oil, native	8000821001	1
Lamotte/Kehr	Olive oil, native	8003580002	1
Lamotte/Kehr	Codliver oil (type A)	8003906002	1
Lamotte/Kehr	Almond oil, refined	8004039003	1
Lamotte/Krieger	Sesame oil, refined	1000005858	1
Lamotte/Krieger	Sesame oil, refined	1000007221	2
Lamotte/Krieger	Sesame oil, refined	1000010906	2
Lamotte/Krieger	Sesame oil, refined	1000015959	1
Lamotte/Krieger	Almond oil, refined	5081301	1
Lamotte/Krieger	Almond oil, refined	5177001	1
Lamotte/Krieger	Almond oil, refined	5269301	2
Lamotte/Krieger	Sesame oil, refined	5319201	1
Lamotte/Krieger	Almond oil, refined	8004390001	1
Lamotte/L3	Codliver oil (type A)	123823	1
Lamotte/L3	Sunflower oil, refined	5422401	1
Lamotte/Lusanum	Almond oil, refined	8004548002	1
Lamotte/N/31.05.13/PZN:...	Almond oil, refined	5214206	1
lamotte/Novatis	Sesame oil, refined	1000010906	1
lamotte/Novatis	Peanut oil, refined	1000012961	1
lamotte/Novatis	Peanut oil, refined	10000144700	1
lamotte/Novatis	Peanut oil, refined	1000015783	1
lamotte/Nowe	Codliver oil (type A)	8002468002	1
Lamotte/Noweda 19.02.21	Olive oil, native	1000014032	1
lamotte/noweda 31.03.22	Peanut oil, refined	1000017094	1
Lamotte/Noweda/ 22.12.2...	Sesame oil, refined	1000013957	1
Lamotte/Noweda	Evening primrose oil, refined	1000003443	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Noweda	Almond oil, refined	1000004431	2
lamotte/noweda	Olive oil, native	1000004908	1
Lamotte/Noweda	Almond oil, refined	1000010093	2
Lamotte/Noweda	Almond oil, refined	1000010685	1
Lamotte/Noweda	Peanut oil, refined	1000010888	1
Lamotte/Noweda	Flaxseed oil, native	1000011055	1
Lamotte/Noweda	Almond oil, refined	1000012126	3
Lamotte/Noweda	Olive oil, native	1000012617	1
Lamotte/Noweda	Peanut oil, refined	1000012961	2
Lamotte/Noweda	Almond oil, refined	1000013565	2
Lamotte/Noweda	Peanut oil, refined	1000013880	3
Lamotte/Noweda	Sesame oil, refined	1000013957	2
Lamotte/Noweda	Peanut oil, refined	1000014700	2
Lamotte/Noweda	Sesame oil, refined	1000015599	3
Lamotte/Noweda	Flaxseed oil, native	103229	1
Lamotte/Noweda	Almond oil, refined	130145	3
Lamotte/noweda	Sesame oil, refined	170713a	1
Lamotte/Noweda	Almond oil, refined	5438301	1
Lamotte/Noweda	Almond oil, refined	5438302	1
Lamotte/Noweda	Olive oil, native	5464901	1
LAMOTTE/NOWEDA	Olive oil, native	5470202	1
Lamotte/Noweda	Codliver oil (type A)	5529601	2
lamotte/Noweda	Almond oil, refined	5615001	1
Lamotte/Noweda	Almond oil, refined	5615003	2
LAMOTTE/NOWEDA	Almond oil, refined	5615003	4
lamotte/Noweda	Almond oil, refined	74760	1
Lamotte/Noweda	Codliver oil (type A)	8000601001	3
lamotte/noweda	Almond oil, refined	8000712001	2
Lamotte/Noweda	Almond oil, refined	8000712001	2
Lamotte/Noweda	Almond oil, refined	8000915001	1
Lamotte/Noweda	Almond oil, refined	8000915002	1
lamotte/noweda	Olive oil, native	8001854001	1
Lamotte/Noweda	Almond oil, refined	8002653001	3
Lamotte/Noweda	Olive oil, native	8002656001	1
Lamotte/Noweda	Almond oil, refined	8002675001	1
lamotte/noweda	Olive oil, native	8002827001	1
Lamotte/Noweda	Almond oil, refined	8003167001	4
lamotte/noweda	Almond oil, refined	8003503001	1
Lamotte/Noweda	Almond oil, refined	8003503002	2
Lamotte/Noweda	Olive oil, native	8003580002	1
Lamotte/Noweda	Olive oil, native	8003801001	1
Lamotte/Noweda	Almond oil, refined	8004039003	5
Lamotte/Noweda	Olive oil, native	8004067001	1
Lamotte/Noweda	Almond oil, refined	8004390001	3
Lamotte/Noweda	Almond oil, refined	8004548011	2
Lamotte/Noweda	Codliver oil (type A)	8004742002	1
Lamotte/Noweda	Codliver oil (type A)	8005296003	3
Lamotte/Noweda	Almond oil, refined	8005803006	3
Lamotte/Noweda	Almond oil, refined	8005936002	3
Lamotte/Noweda	Codliver oil (type A)	8006235003	5
Lamotte/Otto	Flaxseed oil, native	5757301	1
Lamotte/Ph	Almond oil, refined	8003503001	1
Lamotte/Ph	Almond oil, refined	8004548011	2
Lamotte/Ph	Almond oil, refined	8005936002	1
Lamotte/Phoenix	Almond oil, refined	10000010685	1
Lamotte/Phoenix	Flaxseed oil, native	1000009024	1
Lamotte/Phoenix	Sesame oil, refined	1000009220	1
lamotte/Phoenix	Almond oil, refined	1000010093	1
Lamotte/Phoenix	Almond oil, refined	1000010093	5
Lamotte/Phoenix	Almond oil, refined	1000010685	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Phoenix	Almond oil, refined	1000012126	4
Lamotte/Phoenix	Almond oil, refined	1000013112	2
Lamotte/Phoenix	Almond oil, refined	1000013565	2
Lamotte/Phoenix	Peanut oil, refined	1000013880	1
Lamotte/Phoenix	Peanut oil, refined	1000015783	1
Lamotte/Phoenix	Almond oil, refined	1000017183	2
Lamotte/Phoenix	Almond oil, refined	5415901	2
Lamotte/Phoenix	Peanut oil, refined	5592601	1
Lamotte/Phoenix	Almond oil, refined	5615001	1
Lamotte/Phoenix	Almond oil, refined	5615003	2
Lamotte/Phoenix	Peanut oil, refined	5699601	2
Lamotte/Phoenix	Almond oil, refined	5703001	1
Lamotte/Phoenix	Almond oil, refined	5748601	2
Lamotte/Phoenix	Peanut oil, refined	5904100001	1
Lamotte/Phoenix	Almond oil, refined	5919600001	1
Lamotte/Phoenix	Almond oil, refined	8000712001	4
Lamotte/Phoenix	Codliver oil (type A)	8002338002	13
Lamotte/Phoenix	Olive oil, native	8002827001	2
Lamotte/Phoenix	Olive oil, native	8002868001	1
Lamotte/Phoenix	Almond oil, refined	8003167001	2
Lamotte/Phoenix	Almond oil, refined	8003503001	1
Lamotte/Phoenix	Olive oil, native	8003580002	1
Lamotte/Phoenix	Olive oil, native	8003801001	2
Lamotte/Phoenix	Almond oil, refined	8003885002	1
Lamotte/Phoenix	Codliver oil (type A)	8003906002	1
Lamotte/Phoenix	Almond oil, refined	8004039003	3
Lamotte/Phoenix	Olive oil, native	8004251002	2
Lamotte/Phoenix	Almond oil, refined	8004390001	3
Lamotte/Phoenix	Olive oil, native	8004499001	1
Lamotte/Phoenix	Almond oil, refined	8004548002	2
Lamotte/Phoenix	Codliver oil (type A)	8004742003	1
Lamotte/Phoenix	Almond oil, refined	8005803006	2
Lamotte/Phoenix	Almond oil, refined	8005803007	3
Lamotte/Phoenix	Almond oil, refined	8005936002	6
Lamotte/Phoenix	Almond oil, refined	8007461004	1
Lamotte/Phoenix	Almond oil, refined	8008836001	1
Lamotte/Phönix	Olive oil, native	1000004908	1
Lamotte/Phönix	Sesame oil, refined	1000009220	1
Lamotte/Phönix	Almond oil, refined	1000010093	1
lamotte/Phönix	Almond oil, refined	1000010685	2
Lamotte/Phönix	Almond oil, refined	1000010685	1
Lamotte/Phönix	Sunflower oil, refined	1000010859	2
Lamotte/Phönix	Olive oil, native	1000010861	1
Lamotte/Phönix	Sesame oil, refined	1000010906	1
Lamotte/Phönix	Almond oil, refined	1000012126	4
Lamotte/Phönix	Olive oil, native	1000012617	7
Lamotte/Phönix	Almond oil, refined	1000013112	1
Lamotte/Phönix	Olive oil, native	1000013127	1
Lamotte/Phönix	Peanut oil, refined	1000013880	2
Lamotte/Phönix	Olive oil, native	1000014032	1
Lamotte/Phönix	Sesame oil, refined	1000015599	1
Lamotte/Phönix	Olive oil, native	1000016418	3
Lamotte/Phönix	Olive oil, native	1000016420	2
Lamotte/Phönix	Peanut oil, refined	1000017094	1
Lamotte/Phönix	Codliver oil (type A)	123823	1
Lamotte/Phönix	Borage oil, refined, stabili…	145579	1
Lamotte/Phönix	Peanut oil, refined	16071102	1
Lamotte/Phönix	Almond oil, refined	3243	1
Lamotte/Phönix	Almond oil, refined	5415901	1
lamotte/phönix	Almond oil, refined	5438302	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Phönix	Almond oil, refined	5615003	1
lamotte/Phönix	Peanut oil, refined	5697901	1
Lamotte/Phönix	Almond oil, refined	5703101	2
lamotte/Phönix	Almond oil, refined	5748601	1
Lamotte/Phönix	Sesame oil, refined	58772901	1
Lamotte/Phönix	Codliver oil (type A)	5878701	3
lamotte/phönix	Almond oil, refined	5919600001	1
Lamotte/Phönix	Sesame oil, refined	8000531001	1
Lamotte/Phönix	Codliver oil (type A)	8000601001	1
Lamotte/Phönix	Almond oil, refined	8000725001	2
Lamotte/Phönix	Codliver oil (type A)	8001176004	1
Lamotte/Phönix	Codliver oil (type A)	8001215002	1
Lamotte/Phönix	Codliver oil (type A)	80023338002	1
Lamotte/Phönix	Codliver oil (type A)	8002338002	3
Lamotte/Phönix	Codliver oil (type A)	8002468002	7
Lamotte/Phönix	Sesame oil, refined	8002939002	3
Lamotte/Phönix	Peanut oil, refined	8003146001	1
Lamotte/Phönix	Almond oil, refined	8003167001	1
Lamotte/Phönix	Almond oil, refined	8003503001	1
Lamotte/Phönix	Almond oil, refined	8003503002	1
Lamotte/Phönix	Almond oil, refined	8003675001	1
Lamotte/Phönix	Codliver oil (type A)	8003727001	2
Lamotte/Phönix	Codliver oil (type A)	8003906002	4
Lamotte/Phönix	Almond oil, refined	8004039003	3
Lamotte/Phönix	Almond oil, refined	8004548002	3
Lamotte/Phönix	Codliver oil (type A)	8004742002	1
Lamotte/Phönix	Codliver oil (type A)	8004742003	1
Lamotte/Phönix	Almond oil, refined	8005936002	4
Lamotte/Phönix	Almond oil, refined	8007584002	1
Lamotte/Phönix	Sesame oil, refined	84280	1
Lamotte/Poenix	Almond oil, refined	8004039003	1
Lamotte/PPL	Almond oil, refined	8000712001	2
Lamotte/Sana	Almond oil, refined	1000010685	1
Lamotte/Sana	Almond oil, refined	1000012126	1
Lamotte/Sana	Almond oil, refined	1000013565	1
Lamotte/Sana	Almond oil, refined	8004548007	1
Lamotte/Sana	Almond oil, refined	8004548011	1
Lamotte/Sana	Almond oil, refined	8005936002	1
Lamotte/Sanacorp 02.11...	Almond oil, refined	5919600001	1
Lamotte/Sanacorp 09.12.20	Peanut oil, refined	1000013880	1
Lamotte/Sanacorp 1702.2...	Almond oil, refined	1000017183	1
Lamotte/Sanacorp	Avocado oil, refined	1000001098	1
Lamotte/Sanacorp	Almond oil, refined	1000002454	2
Lamotte/Sanacorp	Almond oil, refined	1000003242	2
Lamotte/Sanacorp	Almond oil, refined	1000010685	1
Lamotte/Sanacorp	Olive oil, native	1000010861	1
Lamotte/sanacorp	Peanut oil, refined	1000012961	1
Lamotte/Sanacorp	Omega-3-fish oil	123883	1
Lamotte/Sanacorp	Omega-3-fish oil	124247	3
Lamotte/Sanacorp	Avocado oil, refined	124656	1
Lamotte/Sanacorp	Avocado oil, refined	125529	1
Lamotte/Sanacorp	Almond oil, refined	130145	1
Lamotte/Sanacorp	Avocado oil, refined	130193	1
Lamotte/Sanacorp	Avocado oil, refined	130214	1
Lamotte/Sanacorp	Jojoba Oil, native	5194301	1
Lamotte/Sanacorp	Almond oil, refined	5214206	1
Lamotte/Sanacorp	Olive oil, native	5271504	2
Lamotte/Sanacorp	Jojoba Oil, native	5429201	1
Lamotte/Sanacorp	Almond oil, refined	5438301	1
Lamotte/Sanacorp	Almond oil, refined	5438302	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte/Sanacorp	Olive oil, native	5470202	1
Lamotte/Sanacorp	Almond oil, refined	5615001	3
Lamotte/Sanacorp	Almond oil, refined	5669601	2
Lamotte/Sanacorp	Olive oil, native	5671901	1
Lamotte/Sanacorp	Codliver oil (type A)	5693101	5
Lamotte/Sanacorp	Almond oil, refined	5703001	6
Lamotte/Sanacorp	Almond oil, refined	5703101	1
Lamotte/Sanacorp	Sesame oil, refined	5744101	1
Lamotte/Sanacorp	Almond oil, refined	5748401	1
Lamotte/Sanacorp	Almond oil, refined	5748601	14
Lamotte/Sanacorp	Sesame oil, refined	5872001	1
Lamotte/Sanacorp	Olive oil, native	8000652001	1
Lamotte/Sanacorp	Almond oil, refined	8000712001	6
Lamotte/Sanacorp	Almond oil, refined	8000725001	1
Lamotte/Sanacorp	Almond oil, refined	8000915002	1
Lamotte/Sanacorp	Codliver oil (type A)	8000918001	1
Lamotte/Sanacorp	Almond oil, refined	8001497001	1
Lamotte/Sanacorp	Olive oil, native	8002827001	1
Lamotte/Sanacorp	Almond oil, refined	8003503002	2
Lamotte/Sanacorp	Codliver oil (type A)	8003906001	1
Lamotte/Sanacorp	Codliver oil (type A)	8003906002	2
Lamotte/Sanacorp	Almond oil, refined	8004390001	1
Lamotte/sanacorp	Almond oil, refined	8004548002	1
Lamotte/Sanacorp	Almond oil, refined	8004548011	1
Lamotte/Sanacorp	Almond oil, refined	8005803006	1
Lamotte/Sanacorp	Almond oil, refined	8005803007	3
Lamotte/Sanacorp	Almond oil, refined	8748401	1
LaMotte/Spangro	Sesame oil, refined	1000010906	1
LaMotte/Spangro	Peanut oil, refined	1000012961	1
Lamotte/Spangro	Olive oil, native	5671901	1
Lamotte/Spangro	Olive oil, native	5891202	1
Lamotte/Spangro	Olive oil, native	5903400003	1
Lamotte/Spangro	Olive oil, native	8000652001	1
LaMotte/Spangro	Sesame oil, refined	8001557002	1
Lamotte/Spangro	Olive oil, native	8001648001	1
Lamotte/Spangro	Olive oil, native	8002366001	2
Lamotte/Spangro	Olive oil, native	8004194001	1
Lamotte/Spangro	Olive oil, native	8004251002	1
LaMotte/Spangro	Codliver oil (type A)	8004742002	1
LaMotte/Spangro	Codliver oil (type A)	80117604	1
Lamotte/Spangro11.5.20	Codliver oil (type A)	8005296002	1
Lamotte/Spangro11.5.21	Olive oil, native	1000014032	1
Lamotte/Spangro14.12.20	Codliver oil (type A)	8006235003	4
Lamotte/Spangro29.9.20	Olive oil, native	1000012617	1
Lamotte/Stumpf	Codliver oil (type A)	5529601	1
Lamotte/V.d.L.	Codliver oil (type A)	123823	1
Lamotte/V.d.L.	Olive oil, native	5464901	1
Lamotte/V.d.L.	Codliver oil (type A)	5529601	4
Lamotte	Avocado oil, refined	1000001451	1
Lamotte	Almond oil, refined	1000002454	1
Lamotte	Sesame oil, refined	1000002705	1
Lamotte	Almond oil, refined	1000003242	4
Lamotte	Almond oil, refined	1000004431	1
Lamotte	Flaxseed oil, native	10000047735446	1
Lamotte	Almond oil, refined	1000004815	1
lamotte	Olive oil, native	1000004908	2
Lamotte	Avocado oil, refined	1000005537	1
Lamotte	Sesame oil, refined	1000005858	1
lamotte	Almond oil, refined	1000010093	1
Lamotte	Almond oil, refined	1000010093	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte	Almond oil, refined	1000010685	4
Lamotte	Olive oil, native	1000010861	5
Lamotte	Peanut oil, refined	1000010888	2
Lamotte	Sesame oil, refined	1000010906	1
Lamotte	Olive oil, native	1000011651	1
Lamotte	Almond oil, refined	1000012126	3
Lamotte	Olive oil, native	1000012617	1
Lamotte	Peanut oil, refined	1000012961	1
Lamotte	Almond oil, refined	1000013112	4
Lamotte	Peanut oil, refined	1000013880	2
Lamotte	Olive oil, native	1000014032	1
Lamotte	Peanut oil, refined	1000017094	1
Lamotte	Almond oil, refined	1000017183	1
Lamotte	Sesame oil, refined	100003957	2
Lamotte	Almond oil, refined	100017183	1
Lamotte	Codliver oil (type A)	119929	1
Lamotte	Avocado oil, refined	122490	1
Lamotte	Sesame oil, refined	123488	2
Lamotte	Olive oil, native	123773	2
Lamotte	Codliver oil (type A)	123823	1
Lamotte	Sesame oil, refined	123826	3
Lamotte	Flaxseed oil, native	124116	2
Lamotte	Sesame oil, refined	124494	1
Lamotte	Avocado oil, refined	130143	1
Lamotte	Almond oil, refined	130145	6
Lamotte	Avocado oil, refined	130243	1
lamotte	Evening primrose oil, refined	145581	3
Lamotte	Almond oil, refined	19084506	1
Lamotte	Sesame oil, refined	4711A-02016	1
lamotte	Codliver oil (type A)	5029205	1
Lamotte	Jojoba Oil, native	5172601	1
Lamotte	Peanut oil, refined	5204402	2
Lamotte	Almond oil, refined	5214206	6
Lamotte	Codliver oil (type A)	5228004	2
Lamotte	Olive oil, native	5232201	3
Lamotte	Almond oil, refined	5269301	3
Lamotte	Olive oil, native	5272401	4
Lamotte	Olive oil, native	5372701	1
Lamotte	Almond oil, refined	5415901	12
Lamotte	Codliver oil (type A)	5437202	3
lamotte	Almond oil, refined	5438301	1
Lamotte	Almond oil, refined	5438301	6
Lamotte	Almond oil, refined	5438302	9
Lamotte	Olive oil, native	5464901	2
Lamotte	Olive oil, native	5470202	3
Lamotte	Peanut oil, refined	5473601	3
Lamotte	Almond oil, refined	548302	1
Lamotte	Sesame oil, refined	5514801	3
Lamotte	Codliver oil (type A)	5529601	2
Lamotte	Peanut oil, refined	5592601	1
Lamotte	Almond oil, refined	561001	1
Lamotte	Almond oil, refined	5615001	2
lamotte	Almond oil, refined	5615003	1
Lamotte	Almond oil, refined	5615003	6
Lamotte	Almond oil, refined	5669601	1
Lamotte	Codliver oil (type A)	5693101	6
Lamotte	Peanut oil, refined	5697901	2
Lamotte	Peanut oil, refined	5699501	1
Lamotte	Peanut oil, refined	5699601	3
Lamotte	Almond oil, refined	5703001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte	Almond oil, refined	5703101	1
Lamotte	Almond oil, refined	5713001	1
Lamotte	Jojoba Oil, native	5732801	1
Lamotte	Sesame oil, refined	5744101	1
Lamotte	Almond oil, refined	5748601	7
Lamotte	Jojoba Oil, native	5756401	2
Lamotte	Sesame oil, refined	582001	1
Lamotte	Sesame oil, refined	5872001	1
Lamotte	Sesame oil, refined	5872901	1
Lamotte	Codliver oil (type A)	5878701	5
Lamotte	Olive oil, native	5903400003	1
Lamotte	Almond oil, refined	5919600001	6
Lamotte	Sesame oil, refined	8000531001	3
Lamotte	Codliver oil (type A)	8000601001	3
Lamotte	Almond oil, refined	8000712001	11
Lamotte	Almond oil, refined	8000725001	2
Lamotte	Olive oil, native	8000821001	1
Lamotte	Almond oil, refined	8000915001	3
Lamotte	Almond oil, refined	8000915002	4
Lamotte	Codliver oil (type A)	8000918001	4
Lamotte	Codliver oil (type A)	8001176004	1
Lamotte	Codliver oil (type A)	8001215002	2
Lamotte	Almond oil, refined	8001497001	4
Lamotte	Sesame oil, refined	8001557002	4
Lamotte	Avocado oil, refined	8001641001	2
Lamotte	Codliver oil (type A)	8001765001	4
Lamotte	Codliver oil (type A)	8002338002	7
Lamotte	Codliver oil (type A)	8002468002	1
Lamotte	Almond oil, refined	8002653001	4
Lamotte	Almond oil, refined	8002675001	6
Lamotte	Olive oil, native	8002827001	2
Lamotte	Almond oil, refined	80031670001	1
Lamotte	Almond oil, refined	8003167001	2
Lamotte	Almond oil, refined	8003503001	1
Lamotte	Almond oil, refined	8003503002	4
Lamotte	Codliver oil (type A)	8003727001	4
Lamotte	Olive oil, native	8003801001	2
Lamotte	Almond oil, refined	8003885001	1
lamotte	Almond oil, refined	8003885002	1
Lamotte	Almond oil, refined	8003885002	4
Lamotte	Almond oil, refined	80038885002	1
Lamotte	Codliver oil (type A)	8003906001	1
Lamotte	Codliver oil (type A)	8003906002	1
Lamotte	Almond oil, refined	8004039003	7
Lamotte	Olive oil, native	8004067001	1
Lamotte	Olive oil, native	8004194001	2
Lamotte	Almond oil, refined	8004390001	5
Lamotte	Olive oil, native	8004499001	1
Lamotte	Olive oil, native	800449901	1
Lamotte	Almond oil, refined	8004548011	4
Lamotte	Codliver oil (type A)	8004742002	1
Lamotte	Codliver oil (type A)	8004742003	5
Lamotte	Olive oil, native	8004827001	1
Lamotte	Jojoba Oil, native	8004998001	1
Lamotte	Codliver oil (type A)	8005296002	1
Lamotte	Almond oil, refined	8005936002	6
Lamotte	Codliver oil (type A)	8006235003	1
Lamotte-Krieger	Peanut oil, refined	1000015783	1
Lamotte-Krieger	Almond oil, refined	8007584001	1
lamotte-phönix	Almond oil, refined	1000013565	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
LamotteTFiebig	Almond oil, refined	8004390001	1
Leyh Pharma/Phoenix	Olive oil, native	17038702	1
Marktapotheke	Peanut oil, refined	16071101	1
medesign I.C.GmbH	Evening primrose oil, refined	694367	1
Medesign/ Fiebig	Sesame oil, refined	689298	1
Medesign/Jenne	Evening primrose oil, refined	690548	1
Medesign	Evening primrose oil, refined	690548	1
Midas/Henry Lamotte	Sesame oil, refined	1000003864	2
MIDAS/Henry Lamotte	Almond oil, refined	1000010685	1
Midas/Henry Lamotte	Codliver oil (type A)	8001176004	1
Midas	Almond oil, refined	1000002705	1
Midas	Almond oil, refined	1000004431	2
Midas	Almond oil, refined	1000010093	1
Midas	Peanut oil, refined	16348001	2
Midas	Olive oil, native	17121602	1
Midas	Peanut oil, refined	17169001	1
Midas	Peanut oil, refined	17169010	1
Midas	Olive oil, native	17236501	1
Midas	Olive oil, native	17361106	1
Midas	Olive oil, native	17361107	1
Midas	Olive oil, native	18121101	1
Midas	Olive oil, native	18208101	1
Midas	Almond oil, refined	8003503001	1
Midas	Almond oil, refined	8004039003	4
Midas	Almond oil, refined	8004390001	4
Midas	Almond oil, refined	8004548002	3
MPK	Almond oil, refined	36480-127127	1
müller	Evening primrose oil, refined	1401332X	1
Nachprüfung	Olive oil, native	123456	2
Nachprüfung	Peanut oil, refined	1426903	1
Nachprüfung	Avocado oil, refined	143637021	1
Nachprüfung	Borage oil, refined, stabili…	1503412	1
Nachtestung	Decyl oleate	288/18	1
Nachtkerzenöl, raffinat…	Evening primrose oil, refined	20004047008	1
noveda	Evening primrose oil, refined	12112901	1
Noveda	Avocado oil, refined	13129103	1
Noweda / Henry Lamotte	Flaxseed oil, native	119529	1
Noweda / Henry Lamotte	Flaxseed oil, native	119677	2
Noweda / Henry Lamotte	Almond oil, refined	130145	1
Noweda / Henry Lamotte	Almond oil, refined	5214206	3
Noweda / Henry Lamotte	Sunflower oil, refined	5422401	1
Noweda / Henry Lamotte	Codliver oil (type A)	5437202	1
Noweda / Henry Lamotte	Almond oil, refined	5438301	3
Noweda / Henry Lamotte	Almond oil, refined	5748601	1
Noweda / Henry Lamotte	Almond oil, refined	8000725001	1
Noweda / Lamotte Oil	Codliver oil (type A)	8005296003	1
Noweda / Lamotte Oil	Almond oil, refined	8005936002	2
Noweda 07.09.2019	Evening primrose oil, refined	1901046-01	2
Noweda 14.6.2019	Olive oil, native	18311906	1
Noweda 19.12.2019	Evening primrose oil, refined	19164401	1
Noweda 21.02.2015	Olive oil, native	14182302	1
noweda allcura 4.05.18 …	Evening primrose oil, refined	L404	1
noweda am 17.08.2018	Evening primrose oil, refined	171001102	1
Noweda am 28.09.2017	Olive oil, native	17121602	1
Noweda Lamotte GmBH	Almond oil, refined	5919600001	1
noweda/anzag	Borage oil, refined, stabili…	18295804	1
noweda/anzag	Almond oil, refined	18295903	1
Noweda/EuRho	Evening primrose oil, refined	BTR340388-01	1
Noweda/henry lamotte GmbH	Codliver oil (type A)	8005296002	1
Noweda/Henry Lamotte Oi…	Almond oil, refined	8004390001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda/Henry Lamotte Oils	Sesame oil, refined	5872901	1
Noweda/Henry Lamotte	Olive oil, native	1000010861	1
Noweda/Henry Lamotte	Codliver oil (type A)	5529601	2
Noweda/Henry Lamotte	Almond oil, refined	5615003	4
Noweda/Henry Lamotte	Almond oil, refined	5748501	1
Noweda/Henry Lamotte	Codliver oil (type A)	8000601001	2
Noweda/Henry Lamotte	Almond oil, refined	8000915001	1
Noweda/Henry Lamotte	Codliver oil (type A)	8003906002	1
Noweda/Henry Lamottee	Almond oil, refined	10000013565	1
Noweda/Henry	Almond oil, refined	8003503002	1
Noweda/Henry	Olive oil, native	8004499001	1
noweda/Ichtyol	Almond oil, refined	5438302	2
Noweda/Lamotte 28.07.2...	Olive oil, native	1000016418	1
Noweda/Lamotte	Almond oil, refined	5438302	3
Noweda/Lamotte	Almond oil, refined	5748601	1
Noweda/Lamotte	Olive oil, native	5813601	1
Noweda/Lamotte	Almond oil, refined	5919600001	1
Noweda/Lamotte	Almond oil, refined	8000712001	3
Noweda/Lamotte	Almond oil, refined	8000915001	1
Noweda/Lamotte	Almond oil, refined	8003503001	1
Noweda/Lamotte	Almond oil, refined	8004039003	1
Noweda/Lamotte	Codliver oil (type A)	8007109001	1
Noweda/pharmachem	Olive oil, native	18208106	1
Noweda/Vertanical	Sesame oil, refined	92011	1
noweda	Olive oil, native		1
Noweda	Olive oil, native	1000010861	1
Noweda	Sesame oil, refined	1000013957	1
Noweda	Flaxseed oil, native	1000016786	1
Noweda	Almond oil, refined	100013112	1
Noweda	Peanut oil, refined	100014700	1
Noweda	Almond oil, refined	11078806	1
Noweda	Peanut oil, refined	11313905	1
Noweda	Peanut oil, refined	11B16-N02	2
Noweda	Evening primrose oil, refined	1205023-01	5
Noweda	Oleyl oleate (stabilised)	12067704	3
Noweda	Olive oil, native	12077702	2
Noweda	Almond oil, refined	12080803	2
Noweda	Olive oil, native	12141309	1
Noweda	Peanut oil, refined	12274302	1
Noweda	Peanut oil, refined	123508	1
Noweda	Almond oil, refined	12357101	1
Noweda	Peanut oil, refined	12C30-N02	1
Noweda	Grape seed oil, refined	13065309	1
Noweda	Evening primrose oil, refined	13121807	1
Noweda	Borage oil, refined, stabili...	13136504	1
Noweda	Borage oil, refined, stabili...	13170606	1
Noweda	Almond oil, refined	13178003	1
Noweda	Almond oil, refined	13178011	2
Noweda	Almond oil, refined	13236411	2
Noweda	Olive oil, native	13350102	1
Noweda	Peanut oil, refined	13358804	1
Noweda	Borage oil, refined, stabili...	13372101	1
Noweda	Borage oil, refined, stabili...	13372104	1
Noweda	Almond oil, refined	13H08-N11	1
Noweda	Evening primrose oil, refined	14010904	1
Noweda	Evening primrose oil, refined	1407002-02	1
Noweda	Peanut oil, refined	1410B07300438	1
Noweda	Wheatgerm oil, refined	14356003	1
Noweda	Evening primrose oil, refined	1509005-01	2
Noweda	Evening primrose oil, refined	15171109	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Almond oil, refined	15197404	1
Noweda	Oleyl oleate (stabilised)	15321706	1
Noweda	Olive oil, native	15399702	1
Noweda	Soy lecithin, liquid	1604034-01	1
Noweda	Evening primrose oil, refined	1605027-01	1
Noweda	Peanut oil, refined	16071104	1
Noweda	Evening primrose oil, refined	1608008-01	2
Noweda	Evening primrose oil, refined	16281308	1
Noweda	Oleyl oleate (stabilised)	17013008	1
Noweda	Evening primrose oil, refined	1704018	1
Noweda	Evening primrose oil, refined	1704018-01	1
Noweda	Evening primrose oil, refined	1710011-01	2
Noweda	Olive oil, native	17121610	1
Noweda	Olive oil, native	17236505	1
Noweda	Peanut oil, refined	17328601	2
Noweda	Sesame oil, refined	17332103	1
Noweda	Oleyl oleate (stabilised)	17358103	2
Noweda	Evening primrose oil, refined	1755802	1
Noweda	Olive oil, native	18003205	1
Noweda	Evening primrose oil, refined	18009101	1
Noweda	Evening primrose oil, refined	18009110	1
Noweda	Peanut oil, refined	18014405	1
Noweda	Evening primrose oil, refined	1803006-01	2
Noweda	Evening primrose oil, refined	1803006-02	2
Noweda	Soy lecithin, liquid	1803030-01	1
Noweda	Avocado oil, refined	18044901	2
Noweda	Avocado oil, refined	18044908	1
Noweda	Jojoba Oil, native	18057105	1
Noweda	Jojoba Oil, native	18057107	1
Noweda	Flaxseed oil, native	18120901	1
Noweda	Sunflower oil, refined	18121004	1
Noweda	Almond oil, refined	18184102	1
Noweda	Almond oil, refined	18184113	1
Noweda	Olive oil, native	18208106	1
Noweda	Olive oil, native	18208107	1
Noweda	Peanut oil, refined	18208202	2
Noweda	Evening primrose oil, refined	18216202	2
Noweda	Evening primrose oil, refined	18216207	1
Noweda	Corn oil, refined	1824606	1
Noweda	Almond oil, refined	18295902	3
Noweda	Almond oil, refined	18295903	1
Noweda	Almond oil, refined	18295909	2
Noweda	Avocado oil, refined	18306808	1
Noweda	Avocado oil, refined	19000459011	1
Noweda	Olive oil, native	19001848	2
Noweda	Evening primrose oil, refined	1901046-01	3
Noweda	Almond oil, refined	19084506	1
Noweda	Flaxseed oil, native	19099401	1
Noweda	Evening primrose oil, refined	1911009-01	5
Noweda	Evening primrose oil, refined	19164401	1
Noweda	Evening primrose oil, refined	19164407	2
Noweda	Evening primrose oil, refined	19175401	4
Noweda	Olive oil, native	19212001	1
Noweda	Peanut oil, refined	192485011	1
Noweda	Flaxseed oil, native	192554003	2
Noweda	Evening primrose oil, refined	192982001	3
Noweda	Evening primrose oil, refined	192982002	1
Noweda	Evening primrose oil, refined	192982011	1
Noweda	Evening primrose oil, refined	20001052003	1
Noweda	Evening primrose oil, refined	20001052009	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Olive oil, native	20001410002	1
Noweda	Olive oil, native	20001867	1
Noweda	Almond oil, refined	20003418004	1
Noweda	Peanut oil, refined	20003610006	1
Noweda	Evening primrose oil, refined	20004047009	1
Noweda	Evening primrose oil, refined	2003029-01	1
Noweda	Almond oil, refined	2009004-01	1
Noweda	Olive oil, native	21002271002	1
Noweda	Almond oil, refined	21002363005	1
Noweda	Evening primrose oil, refined	2105001-01	1
Noweda	Olive oil, native	267376	1
Noweda	Olive oil, native	268118	1
Noweda	Olive oil, native	272270	2
Noweda	Olive oil, native	277050	2
Noweda	Olive oil, native	284143	1
Noweda	Almond oil, refined	294784	1
Noweda	Olive oil, native	295282	1
Noweda	Almond oil, refined	308919	1
Noweda	Codliver oil (type A)	4537202	1
Noweda	Peanut oil, refined	5103001	1
Noweda	Almond oil, refined	5177001	4
Noweda	Codliver oil (type A)	5228001	1
Noweda	Almond oil, refined	5269301	4
Noweda	Codliver oil (type A)	5437202	4
Noweda	Codliver oil (type A)	5529601	4
Noweda	Almond oil, refined	5748601	2
Noweda	Olive oil, native	5813601	1
Noweda	Codliver oil (type A)	8003906002	2
Noweda	Almond oil, refined	8004039003	1
noweda	Almond oil, refined	8004548011	3
Noweda	Codliver oil (type A)	8004742002	1
noweda	Almond oil, refined	8005803006	2
Noweda	Almond oil, refined	884548007	1
Noweda	Evening primrose oil, refined	BTR349512-01	1
Noweda	Evening primrose oil, refined	E1106072	1
Noweda-Henry	Olive oil, native	5891202	1
paesel + lorei	Grape seed oil, refined	N0000006051	1
Paesel und Lorei	Grape seed oil, refined	N0000004666	1
Paesel+Lorei GmbH	Grape seed oil, refined	N0000004667	1
Pala	Peanut oil, refined	18296007	1
PG-Naturpharm	Borage oil, refined, stabili...	397-045	2
PG-Naturpharma/ Phönix	Borage oil, refined, stabili...	202-058	1
PG-Naturpharma/Sanacorp	Evening primrose oil, refined	711-098	1
Ph.Eur.7.0	Almond oil, refined	13350003	1
Ph.Eur.8.2	Evening primrose oil, refined	14H18B04297708	1
Ph.Eur/AHD	Evening primrose oil, refined	1901046-01	1
Ph.Oele	Codliver oil (type A)	8005296002	4
Ph/Euro	Evening primrose oil, refined	1710011-01	1
Ph/Henry Lamotte	Codliver oil (type A)	8003727001	2
Pharma Wenigerode/Phönix	Sesame oil, refined	92011	4
Pharma Wernigerode GmbH	Sesame oil, refined	92011	8
Pharmachem/AHD	Olive oil, native	13324703	1
Pharmachem/Noweda	Almond oil, refined	8000712001	1
pharmachem	Sesame oil, refined	SOE1000014055	3
Phoenix (Henry Lamotte ...	Almond oil, refined	5269301	1
PHOENIX 03.03.2014	Olive oil, native	1305014-01	1
PHOENIX 03.06.2014	Almond oil, refined	14042705	1
Phoenix 04.07.2019 6,71EUR	Evening primrose oil, refined	18216214	1
Phoenix 04.12.14	Evening primrose oil, refined	14010905	1
PHOENIX 08.05.2014	Evening primrose oil, refined	14002501	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix 14.2.2019	Flaxseed oil, native	18120904	1
PHOENIX 15.05.2014	Borage oil, refined, stabili…	13372104	1
pHOENIX 18.02.2014	Codliver oil (type A)	5529601	1
Phoenix 19.01.2019	Avocado oil, refined	18044914	1
Phoenix 19.03.2014	Avocado oil, refined	13129102	1
Phoenix 25.03.2017 6,79EUR	Evening primrose oil, refined	16281305	1
Phoenix 25.7.2018	Borage oil, refined, stabili…	18080501	1
Phoenix 29.04.2014	Avocado oil, refined	13361406	1
Phoenix 3.08.18	Olive oil, native	17361106	1
Phoenix 3.2.2014	Olive oil, native	13350102	1
Phoenix Göttingen 07.01…	Sesame oil, refined	1000007221	1
Phoenix/ Henry Lamotte	Almond oil, refined	1000010685	1
Phoenix/ Lamotte	Almond oil, refined	5438301	2
Phoenix/HenryLamotte	Almond oil, refined	1000013565	1
Phoenix/HenryLamotte	Codliver oil (type A)	1000017673	1
Phoenix/HenryLamotte	Almond oil, refined	8005803007	1
Phoenix/HenryLamotte	Codliver oil (type A)	8006235003	3
Phoenix/HenryLamotte	Codliver oil (type A)	8007109001	4
Phoenix/Lamotte	Almond oil, refined	5214206	1
Phoenix/Lamotte	Almond oil, refined	5415901	1
Phoenix/Lamotte	Sesame oil, refined	5634501	1
Phoenix/Lamotte	Codliver oil (type A)	8003727001	1
Phoenix/Lamotte	Codliver oil (type A)	8003906061	1
Phoenix/Lamotte	Codliver oil (type A)	8004742002	1
Phoenix	Peanut oil, refined	1000010888	1
Phoenix	Peanut oil, refined	1000013880	1
Phoenix	Almond oil, refined	1000017183	2
Phoenix	Peanut oil, refined	100013880	1
Phoenix	Codliver oil (type A)	11315303	1
Phoenix	Borage oil, refined, stabili…	12355203	1
Phoenix	Peanut oil, refined	13306106	1
Phoenix	Olive oil, native	13350103	1
Phoenix	Peanut oil, refined	13358803	1
Phoenix	Evening primrose oil, refined	14002503	1
Phoenix	Evening primrose oil, refined	1401033-01	1
Phoenix	Olive oil, native	1406009-01	1
Phoenix	Evening primrose oil, refined	1407002-02	1
Phoenix	Peanut oil, refined	14115405	1
Phoenix	Olive oil, native	14118603	1
Phoenix	Oleyl oleate (stabilised)	14129007	1
Phoenix	Borage oil, refined, stabili…	14161906	1
Phoenix	Sesame oil, refined	14170004	1
Phoenix	Evening primrose oil, refined	14258604	1
Phoenix	Peanut oil, refined	14355905	1
Phoenix	Wheatgerm oil, refined	15374101	1
Phoenix	Evening primrose oil, refined	15417802	1
Phoenix	Evening primrose oil, refined	15417803	1
Phoenix	Olive oil, native	16035310	1
Phoenix	Olive oil, native	16035311	1
Phoenix	Evening primrose oil, refined	1605027-01	1
Phoenix	Wheatgerm oil, refined	16137403	1
Phoenix	Borage oil, refined, stabili…	16266011	1
Phoenix	Sesame oil, refined	16312501	1
Phoenix	Wheatgerm oil, refined	16321301	2
Phoenix	Almond oil, refined	16327304	1
Phoenix	Almond oil, refined	163327303	1
Phoenix	Peanut oil, refined	16348001	1
Phoenix	Oleyl oleate (stabilised)	17013014	2
Phoenix	Evening primrose oil, refined	1703020-01	2
Phoenix	Peanut oil, refined	17042802	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Evening primrose oil, refined	171011-02	1
phoenix	Olive oil, native	17121602	1
Phoenix	Olive oil, native	17121606	1
Phoenix	Peanut oil, refined	17169010	1
Phoenix	Almond oil, refined	17176503	1
Phoenix	Peanut oil, refined	17328601	1
Phoenix	Oleyl oleate (stabilised)	17358101	1
phoenix	Olive oil, native	17361101	1
Phoenix	Peanut oil, refined	18014402	1
Phoenix	Almond oil, refined	18015007	1
Phoenix	Evening primrose oil, refined	1803006-02	2
Phoenix	Decyl oleate	18069407	1
Phoenix	Codliver oil (type A)	18080801	1
Phoenix	Almond oil, refined	18184101	1
Phoenix	Almond oil, refined	18184107	1
Phoenix	Olive oil, native	18208101	1
Phoenix	Wheatgerm oil, refined	18241006	1
Phoenix	Almond oil, refined	18295901	1
Phoenix	Almond oil, refined	18295908	1
Phoenix	Almond oil, refined	18295915	1
Phoenix	Peanut oil, refined	18296002	3
Phoenix	Peanut oil, refined	18296009	1
Phoenix	Avocado oil, refined	18306804	1
Phoenix	Olive oil, native	18311910	1
Phoenix	Evening primrose oil, refined	1901046-01	4
Phoenix	Olive oil, native	19076105	1
phoenix	Olive oil, native	19076109	1
Phoenix	Olive oil, native	19076109	1
Phoenix	Almond oil, refined	19084505	1
Phoenix	Olive oil, native	191370512	1
Phoenix	Almond oil, refined	19187101	1
Phoenix	Peanut oil, refined	192485006	1
Phoenix	Evening primrose oil, refined	20001052003	3
Phoenix	Olive oil, native	20001410002	1
Phoenix	Peanut oil, refined	20001473008	1
Phoenix	Oleyl oleate (stabilised)	20002648002	1
Phoenix	Olive oil, native	20003049003	1
Phoenix	Peanut oil, refined	200036110014	1
Phoenix	Evening primrose oil, refined	200302901	1
Phoenix	Evening primrose oil, refined	2003029-01	1
Phoenix	Evening primrose oil, refined	2008037-02	1
Phoenix	Olive oil, native	21000836002	1
Phoenix	Peanut oil, refined	21001091003	1
Phoenix	Decyl oleate	3061	1
Phoenix	Peanut oil, refined	3100	1
Phoenix	Olive oil, native	3101	1
Phoenix	Avocado oil, refined	311166	1
Phoenix	Peanut oil, refined	3189	1
Phoenix	Almond oil, refined	3202	1
Phoenix	Olive oil, native	3203	1
Phoenix	Almond oil, refined	5269301	1
Phoenix	Olive oil, native	5470202	1
Phoenix	Codliver oil (type A)	8002338002	1
Phoenix	Codliver oil (type A)	8002468002	1
Phoenix	Sesame oil, refined	8002939002	1
Phoenix	Almond oil, refined	8003167001	1
Phoenix	Codliver oil (type A)	8003727001	1
Phoenix	Codliver oil (type A)	8003906002	2
Phoenix	Olive oil, native	8004067001	1
Phoenix	Codliver oil (type A)	8005296003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Codliver oil (type A)	8007109001	1
Phoenix	Evening primrose oil, refined	AP869100N	1
Phoenix	Evening primrose oil, refined	EP704511-2	1
Phönix , 03.09.13	Almond oil, refined	13178003	1
Phönix / Alliance Healt...	Borage oil, refined, stabili...	16266002	1
Phönix / Alliance Healt...	Avocado oil, refined	17038802	1
Phönix / Henry Lamotte ...	Peanut oil, refined	1000010888	1
Phönix 09.11.12	Olive oil, native	272270	1
Phönix 11.02.2019	Olive oil, native	19076109	1
Phönix 11.11.2019	Avocado oil, refined	18306802	1
Phönix 12.12.12	Sesame oil, refined	12054508	1
Phönix 14.01.15	Borage oil, refined, stabili...	14203004	1
Phönix 15.01.2014	Avocado oil, refined	279025	1
Phönix 18.11.2013	Evening primrose oil, refined	13121808	1
Phönix 25.09.2019	Peanut oil, refined	18296009	1
Phönix 27.01.2014	Evening primrose oil, refined	1304018-01	1
Phönix aep	Almond oil, refined	18014402	1
Phönix Gotha	Almond oil, refined	12153501	1
Phönix Gotha	Peanut oil, refined	13129202	1
Phönix Gotha	Peanut oil, refined	13306103	1
Phönix Gotha	Olive oil, native	15216308	1
Phönix Gotha	Peanut oil, refined	15273403	1
Phönix Gotha	Olive oil, native	17001926	1
Phönix Gotha	Almond oil, refined	18015007	1
Phönix Gotha	Almond oil, refined	18184107	1
Phönix Gotha	Almond oil, refined	18295902	1
Phönix Gotha	Olive oil, native	19002974	1
Phönix Gotha	Peanut oil, refined	19059205	1
Phönix Gotha	Almond oil, refined	19187102	1
Phönix Gotha	Peanut oil, refined	192485007	1
Phönix Gotha	Olive oil, native	277049	1
Phönix Gotha	Peanut oil, refined	310007	1
Phönix, 07.11.2011	Olive oil, native	278583	1
Phönix, 17.06.2013	Almond oil, refined	5438301	1
Phönix/ Caesar&Loretz G...	Almond oil, refined	19000779004	2
Phönix/ Henry Lamotte	Olive oil, native	1000014032	3
Phönix/ Lamotte	Almond oil, refined	5615001	1
Phönix/ Lamotte	Almond oil, refined	5615003	2
Phönix/Caesar & Loretz ...	Avocado oil, refined	22000074003	1
Phönix/Fagon	Almond oil, refined	18015003	1
Phönix/Henry Lamotte oi...	Codliver oil (type A)	8003906001	3
Phönix/Henry Lamotte oi...	Codliver oil (type A)	8005296003	1
Phönix/Henry lamotte oils	Flaxseed oil, native	1000011055	1
Phönix/Henry Lamotte	Codliver oil (type A)	8003906001	1
Phönix/Henry Lamotte	Almond oil, refined	8005936002	1
Phönix/Lamotte	Codliver oil (type A)		1
Phönix/Lamotte	Almond oil, refined	1000003242	1
Phönix/Lamotte	Olive oil, native	5272401	1
phönix	Olive oil, native		3
Phönix	Sesame oil, refined	1000009222	1
Phönix	Olive oil, native	1000010090	2
Phönix	Olive oil, native	1000010808	1
Phönix	Olive oil, native	1000011651	2
Phönix	Almond oil, refined	1000012126	1
Phönix	Almond oil, refined	100001216	1
Phönix	Flaxseed oil, native	1000015368	1
Phönix	Almond oil, refined	100002126	1
phönix	Evening primrose oil, refined	1210012-02	1
phönix	Almond oil, refined	12153505	1
Phönix	Borage oil, refined, stabili...	12161207	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Olive oil, native	12274106	1
Phönix	Peanut oil, refined	12274302	2
phönix	Olive oil, native	13010904	1
Phönix	Almond oil, refined	13178004	1
Phönix	Peanut oil, refined	13358801	1
phönix	Evening primrose oil, refined	139798	1
Phönix	Oleyl oleate (stabilised)	14005001	1
phönix	Evening primrose oil, refined	14010915	1
Phönix	Olive oil, native	14118606	1
Phönix	Evening primrose oil, refined	150827	1
phönix	Codliver oil (type A)	15201201	1
Phönix	Olive oil, native	15216308	1
Phönix	Olive oil, native	15399702	1
Phönix	Almond oil, refined	15409710	1
Phönix	Oleyl oleate (stabilised)	15410207	1
Phönix	Evening primrose oil, refined	1603048-01	1
Phönix	Almond oil, refined	16071006	2
phönix	Codliver oil (type A)	16074301	1
phönix	Avocado oil, refined	16185908	1
Phönix	Olive oil, native	16212803	1
phönix	Wheatgerm oil, refined	16321301	1
Phönix	Almond oil, refined	16327302	2
PHÖNIX	Almond oil, refined	16327302	1
Phönix	Almond oil, refined	16327303	1
Phönix	Olive oil, native	16327402	1
PHÖNIX	Olive oil, native	16327402	1
Phönix	Olive oil, native	16327406	1
Phönix	Olive oil, native	17001926	1
Phönix	Oleyl oleate (stabilised)	17013014	1
Phönix	Olive oil, native	17038702	1
phönix	Avocado oil, refined	17038802	1
Phönix	Evening primrose oil, refined	1704018-01	2
Phönix	Peanut oil, refined	17042802	1
Phönix	Evening primrose oil, refined	1710011-02	2
Phönix	Olive oil, native	17121610	1
PHÖNIX	Codliver oil (type A)	17137805	1
Phönix	Almond oil, refined	17176502	2
Phönix	Almond oil, refined	17207907	1
Phönix	Decyl oleate	17215601	1
Phönix	Wheatgerm oil, refined	17216701	1
PHÖNIX	Wheatgerm oil, refined	17216705	1
PHÖNIX	Olive oil, native	17236501	1
Phönix	Evening primrose oil, refined	17255801	1
Phonix	Oleyl oleate (stabilised)	17358103	1
Phönix	Oleyl oleate (stabilised)	17358109	3
phönix	Olive oil, native	17361101	1
PHÖNIX	Olive oil, native	17361106	1
Phonix	Olive oil, native	17361107	1
Phönix	Olive oil, native	17361107	1
Phönix	Olive oil, native	18002119	1
Phönix	Olive oil, native	18003205	4
Phönix	Avocado oil, refined	18007501	1
PHÖNIX	Evening primrose oil, refined	18009103	1
Phönix	Peanut oil, refined	18014405	1
PHÖNIX	Almond oil, refined	18015002	1
Phönix	Evening primrose oil, refined	1803006-01	2
Phönix	Olive oil, native	18208101	1
PHÖNIX	Olive oil, native	18208101	2
Phönix	Olive oil, native	18208110	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Peanut oil, refined	18208202	2
Phönix	Wheatgerm oil, refined	18241012	1
Phönix	Almond oil, refined	18295908	1
PHÖNIX	Almond oil, refined	18295910	1
Phönix	Avocado oil, refined	18306808	2
Phönix	Olive oil, native	19000452003	1
Phönix	Almond oil, refined	19000779001	4
Phönix	Olive oil, native	19006021	1
Phönix	Peanut oil, refined	19059205	1
Phönix	Olive oil, native	19076104	1
Phönix	Olive oil, native	19076109	1
Phönix	Evening primrose oil, refined	1911009-01	5
Phönix	Olive oil, native	19212001	1
Phönix	Evening primrose oil, refined	192982004	2
Phönix	Olive oil, native	20000171	2
Phönix	Evening primrose oil, refined	20001052005	3
Phönix	Olive oil, native	20001410002	1
Phönix	Olive oil, native	20001410003	1
Phönix	Olive oil, native	20003049003	1
Phönix	Almond oil, refined	20003201	1
PHÖNIX	Peanut oil, refined	20003610006	1
Phönix	Olive oil, native	20032	1
Phönix	Olive oil, native	200371604	1
Phönix	Almond oil, refined	21001240006	1
Phönix	Olive oil, native	21003239002	1
Phönix	Almond oil, refined	21003729006	1
PHÖNIX	Evening primrose oil, refined	2105001-02	1
Phönix	Almond oil, refined	298745	1
Phönix	Peanut oil, refined	5204402	1
Phönix	Peanut oil, refined	5404101	1
Phönix	Almond oil, refined	543801	1
Phönix	Almond oil, refined	5438301	1
Phönix	Peanut oil, refined	5473601	1
Phönix	Almond oil, refined	8000915001	1
phönix	Almond oil, refined	8001497001	1
Phönix	Olive oil, native	8002026001	1
Phönix	Olive oil, native	8002366001	1
Phönix	Olive oil, native	8002656001	1
Phönix	Almond oil, refined	8003167001	2
Phönix	Olive oil, native	8003420001	1
Phönix	Olive oil, native	8003580002	2
phönix	Almond oil, refined	8004039003	2
Phönix	Olive oil, native	8004251002	1
Phönix	Peanut oil, refined	8004304002	1
Phönix	Almond oil, refined	8004548002	1
Phönix	Almond oil, refined	8004548011	3
Phönix	Almond oil, refined	8005803006	1
Phönix	Almond oil, refined	8005936002	1
Phytocomm	Almond oil, refined	15197406	1
Prima Vera	Almond oil, refined	8603152	1
Primavera 19.10.15	Evening primrose oil, refined	774J232	1
Primavera 19.10.15	Almond oil, refined	944H23	1
Primavera Wareneingang...	Almond oil, refined	792D23	1
Primavera Wareneingang...	Jojoba Oil, native	747A23	1
Primavera (14.06.2018)	Almond oil, refined	444C26	2
Primavera (14.06.2018)	Jojoba Oil, native	59E26	1
Primavera (14.06.2018)	Almond oil, refined	60E26	1
Primavera WE 29.03.17 -...	Almond oil, refined	241C25	1
Primavera/ Primavera	Jojoba Oil, native	273J27	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Primavera/ Primavera	Jojoba Oil, native	410M27	2
Primavera/ Primavera	Jojoba Oil, native	728D28(00599H27)	2
Primavera/AHD	Evening primrose oil, refined	304A27	1
Primavera/AHD	Avocado oil, refined	575G27	1
Primavera/Direkt	Almond oil, refined	737K25	1
Primavera/Primavera	Jojoba Oil, native	513M23	2
Primavera/Primavera	Jojoba Oil, native	747A23	1
Primavera/Primavera	Jojoba Oil, native	782B24	2
Primavera/Sanacorp	Almond oil, refined	682E25	1
Primavera/Sanacorp	Almond oil, refined	912L25	1
Primavera	Wheatgerm oil, refined	1048L25	1
Primavera	Almond oil, refined	11G23	2
Primavera	Almond oil, refined	12H24	1
Primavera	Almond oil, refined	141D27	1
Primavera	Almond oil, refined	143D27	2
Primavera	Almond oil, refined	15510141	1
Primavera	Almond oil, refined	1551041	2
Primavera	Jojoba Oil, native	17009133	1
Primavera	Jojoba Oil, native	19307131	1
Primavera	Almond oil, refined	199J28	1
Primavera	Jojoba Oil, native	209D30	1
Primavera	Jojoba Oil, native	218H26	1
Primavera	Evening primrose oil, refined	225K26	1
Primavera	Jojoba Oil, native	235B27	2
Primavera	Almond oil, refined	241C25	4
Primavera	Jojoba Oil, native	241H23	2
Primavera	Almond oil, refined	243C25	1
Primavera	Evening primrose oil, refined	2611142	1
Primavera	Almond oil, refined	298H25	3
Primavera	Jojoba Oil, native	3009J22	1
Primavera	Jojoba Oil, native	300F27	1
Primavera	Jojoba Oil, native	342L26	3
Primavera	Jojoba Oil, native	352F23	2
Primavera	Wheatgerm oil, refined	3606132	1
Primavera	Apricot kernel oil, refined	3612131	1
Primavera	Jojoba Oil, native	361L25	1
Primavera	Almond oil, refined	366C30	1
Primavera	Almond oil, refined	3808131	2
Primavera	Almond oil, refined	381F26	3
Primavera	Almond oil, refined	382L27	1
Primavera	Almond oil, refined	410K27	3
Primavera	Jojoba Oil, native	410M27	1
Primavera	Jojoba Oil, native	427D25	2
Primavera	Almond oil, refined	444C26	1
Primavera	Almond oil, refined	449H29	2
Primavera	Almond oil, refined	480K23	1
Primavera	Almond oil, refined	4811131	1
Primavera	Almond oil, refined	511E25	1
Primavera	Jojoba Oil, native	535L24	4
Primavera	Jojoba Oil, native	537F24	1
Primavera	Almond oil, refined	552K25	1
Primavera	Jojoba Oil, native	59E26	3
Primavera	Almond oil, refined	60E26	1
Primavera	Jojoba Oil, native	63J24	1
Primavera	Jojoba Oil, native	681A26	3
Primavera	Jojoba Oil, native	717K23	1
Primavera	Jojoba Oil, native	728D28	1
Primavera	Almond oil, refined	7708L22	1
Primavera	Almond oil, refined	822L29	2
Primavera	Almond oil, refined	82B23	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Primavera	Avocado oil, refined	83M26	1
Primavera	Jojoba Oil, native	883G25	3
Primavera	Sesame oil, refined	9A26	2
Primvavera	Almond oil, refined	218D24	1
Primvavera	Almond oil, refined	21D24	1
Purren Apotheke	Peanut oil, refined	11313905	1
PVL	Avocado oil, refined	2410131	1
PVL	Avocado oil, refined	2807133	1
Raben-Apotheke Mildenau	Avocado oil, refined	1402027-01	1
Raben-Apotheke Mildenau	Decyl oleate	14814-B03-292195	1
Raben-Apotheke Mildenau	Olive oil, native	5623601	1
Raben-Apotheke Mildenau	Olive oil, native	5891202	3
Resana GmbH / GEHE	Peanut oil, refined	1805-5943	1
Resana GmbH	Olive oil, native	1811-6110	1
Resana GmbH	Olive oil, native	1905-6233	1
Resana GmbH	Peanut oil, refined	1908-6406	1
Resana/Fiebig	Almond oil, refined	1708-5766	1
Resana	Corn oil, refined	1208-3678	1
Resana	Corn oil, refined	1308-4063	1
Resana	Peanut oil, refined	1508-5053	1
Resana	Olive oil, native	1806-5973	1
Resana	Peanut oil, refined	1908-6406	1
Rondell Apotheke	Evening primrose oil, refined	1506001-01	1
Röntgen	Olive oil, native	18003205	1
Röntgen	Olive oil, native	19006021	1
Röntgen	Olive oil, native	21001644	1
S.Binder	Olive oil, native	284144	1
s.Prüfprotokoll	Flaxseed oil, native		1
Sana/EuRho	Evening primrose oil, refined	1911009-01	1
Sana	Almond oil, refined	20003418004	1
Sanacop WE:18.11.17 100...	Shea butter, refined	17085809	1
Sanacopr	Almond oil, refined		4
Sanacoro W.E:16.03.18 ...	Almond oil, refined	8003503002	1
Sanacorp / Hedinger	Avocado oil, refined	1605034-01	1
Sanacorp / Henry Lamotte	Codliver oil (type A)	8002468002	1
Sanacorp / Henry Lamotte	Codliver oil (type A)	8004742003	1
Sanacorp /Lamotte	Codliver oil (type A)	8001215002	4
Sanacorp 107	Flaxseed oil, native	19164501	1
Sanacorp 107	Evening primrose oil, refined	2003029-01	1
Sanacorp 18.03.14 EK 10...	Olive oil, native	13G18-B08-286423	1
Sanacorp 21.01.15 EK 10...	Olive oil, native	14G08-B02-300073	1
Sanacorp 24.05.2017 2,84EUR	Almond oil, refined	17042203	1
Sanacorp W.E: 01.02.18 ...	Borage oil, refined, stabili...	17307801	2
Sanacorp WE:04.02.2017 ...	Almond oil, refined	8001497001	1
sanacorp WE:28.12.17 E...	Shea butter, refined	17085815	1
Sanacorp, 11.03.17, 5,46EUR	Almond oil, refined	16327309	2
Sanacorp, 16.02.17, 3,04EUR	Avocado oil, refined	16104702	1
Sanacorp, 4,88EUR, 18.1.17	Almond oil, refined	16327303	1
Sanacorp,31.03.17, 5,20EUR	Avocado oil, refined	16185908	1
Sanacorp/ Abis Pharma	Shea butter, refined	keine	2
Sanacorp/ Lamotte	Olive oil, native	1000010090	3
Sanacorp/ Lamotte	Almond oil, refined	1000010093	2
Sanacorp/ Lamotte	Codliver oil (type A)	8003906002	1
Sanacorp/ Lamotte	Olive oil, native	8004194001	1
Sanacorp/ Lamotte	Olive oil, native	8004251002	6
Sanacorp/ Lamotte	Codliver oil (type A)	8004742003	3
Sanacorp/ Lamotte	Codliver oil (type A)	8005296003	1
Sanacorp/ Lamotte	Codliver oil (type A)	8006235003	1
Sanacorp/ Lamotte	Codliver oil (type A)	800709001	1
Sanacorp/Henry Lamotte ...	Almond oil, refined	8003167001	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp/Lamotte	Peanut oil, refined	1000014700	1
Sanacorp/Lamotte	Peanut oil, refined	1000015783	1
Sanacorp	Olive oil, native		1
Sanacorp	Wheatgerm oil, refined	1/AKD2	1
Sanacorp	Olive oil, native	1/AKD4	2
Sanacorp	Sesame oil, refined	1000002705	1
Sanacorp	Sesame oil, refined	1000010906	3
Sanacorp	Sesame oil, refined	1000011034	2
Sanacorp	Sesame oil, refined	1000011866	1
Sanacorp	Almond oil, refined	1000012126	1
Sanacorp	Peanut oil, refined	1000012961	1
Sanacorp	Peanut oil, refined	1000015783	1
Sanacorp	Oleyl oleate (stabilised)	12067705	1
Sanacorp	Almond oil, refined	12080803	1
Sanacorp	Olive oil, native	12141306	2
Sanacorp	Oleyl oleate (stabilised)	12220208	1
Sanacorp	Olive oil, native	12274108	1
Sanacorp	Peanut oil, refined	12274302	2
Sanacorp	Evening primrose oil, refined	12325111	1
Sanacorp	Evening primrose oil, refined	12325114	1
Sanacorp	Almond oil, refined	12357102	3
Sanacorp	Almond oil, refined	12357103	1
Sanacorp	Avocado oil, refined	1304039-01	1
Sanacorp	Oleyl oleate (stabilised)	13096402	1
Sanacorp	Evening primrose oil, refined	13121809	2
Sanacorp	Evening primrose oil, refined	13121814	1
Sanacorp	Peanut oil, refined	13129203	1
sanacorp	Olive oil, native	13147004	1
Sanacorp	Almond oil, refined	13178004	1
Sanacorp	Almond oil, refined	13236406	1
Sanacorp	Almond oil, refined	13350007	1
Sanacorp	Borage oil, refined, stabili...	13372106	1
Sanacorp	Oleyl oleate (stabilised)	13378403	2
Sanacorp	Olive oil, native	13C08-N06	1
sanacorp	Shea butter, refined	14033310	1
Sanacorp	Evening primrose oil, refined	1407002-01	1
Sanacorp	Almond oil, refined	1413935	1
Sanacorp	Avocado oil, refined	14170104	1
Sanacorp	Borage oil, refined, stabili...	14203006	1
Sanacorp	Evening primrose oil, refined	14258606	1
Sanacorp	Olive oil, native	14306903	1
sanacorp	Olive oil, native	14306904	1
Sanacorp	Peanut oil, refined	14355904	1
Sanacorp	Almond oil, refined	15078401	1
Sanacorp	Almond oil, refined	15078405	1
Sanacorp	Decyl oleate	15082206	1
Sanacorp	Olive oil, native	15112705	1
sanacorp	Olive oil, native	15112706	1
Sanacorp	Avocado oil, refined	15155206	1
Sanacorp	Evening primrose oil, refined	1517110	1
Sanacorp	Evening primrose oil, refined	15171104	1
Sanacorp	Evening primrose oil, refined	15171109	1
Sanacorp	Soy oil, refined	15289402	1
Sanacorp	Jojoba Oil, native	16070609	1
Sanacorp	Evening primrose oil, refined	16281305	1
Sanacorp	Evening primrose oil, refined	16281313	1
Sanacorp	Peanut oil, refined	16348001	1
Sanacorp	Peanut oil, refined	17042802	2
Sanacorp	Evening primrose oil, refined	1710011-01	1
Sanacorp	Peanut oil, refined	17169010	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Peanut oil, refined	17169018	1
Sanacorp	Almond oil, refined	17176502	1
Sanacorp	Almond oil, refined	17176507	2
Sanacorp	Almond oil, refined	17176512	2
Sanacorp	Olive oil, native	17236501	2
Sanacorp	Evening primrose oil, refined	17255801	1
Sanacorp	Flaxseed oil, native	18001720	1
Sanacorp	Olive oil, native	18002119	2
Sanacorp	Olive oil, native	18005453	2
Sanacorp	Almond oil, refined	18006808	1
Sanacorp	Avocado oil, refined	18007502	1
Sanacorp	Evening primrose oil, refined	18009106	1
Sanacorp	Evening primrose oil, refined	18009109	2
Sanacorp	Evening primrose oil, refined	18009114	1
Sanacorp	Evening primrose oil, refined	180300601	1
Sanacorp	Jojoba Oil, native	18057107	1
Sanacorp	Almond oil, refined	18070605	2
Sanacorp	Olive oil, native	18121101	1
Sanacorp	Almond oil, refined	18184107	1
Sanacorp	Almond oil, refined	18184113	1
Sanacorp	Peanut oil, refined	18208202	1
Sanacorp	Evening primrose oil, refined	18216201	1
Sanacorp	Evening primrose oil, refined	18216202	1
Sanacorp	Almond oil, refined	18295901	1
Sanacorp	Almond oil, refined	18295909	2
Sanacorp	Almond oil, refined	18295915	1
Sanacorp	Peanut oil, refined	18296001	1
Sanacorp	Olive oil, native	18311901	1
Sanacorp	Olive oil, native	18311906	1
Sanacorp	Almond oil, refined	19000779001	2
Sanacorp	Olive oil, native	19001848	1
Sanacorp	Evening primrose oil, refined	1901046-01	1
Sanacorp	Sunflower oil, refined	19046506	1
Sanacorp	Peanut oil, refined	19059205	1
Sanacorp	Peanut oil, refined	19059208	1
Sanacorp	Almond oil, refined	19084502	1
Sanacorp	Almond oil, refined	19084506	1
Sanacorp	Almond oil, refined	19084510	1
Sanacorp	Evening primrose oil, refined	19164407	1
Sanacorp	Almond oil, refined	19187101	1
sanacorp	Almond oil, refined	19187102	1
Sanacorp	Almond oil, refined	19187102	1
Sanacorp	Evening primrose oil, refined	192982011	3
Sanacorp	Sesame oil, refined	20000741003	1
Sanacorp	Evening primrose oil, refined	20001052001	1
Sanacorp	Olive oil, native	20001410002	1
Sanacorp	Peanut oil, refined	20001473004	1
Sanacorp	Almond oil, refined	20001624004	1
Sanacorp	Olive oil, native	20001867	1
Sanacorp	Flaxseed oil, native	20002883	1
Sanacorp	Evening primrose oil, refined	21000915004	1
Sanacorp	Olive oil, native	21002271006	1
Sanacorp	Almond oil, refined	21002363005	1
Sanacorp	Olive oil, native	273659	1
Sanacorp	Olive oil, native	277050	1
Sanacorp	Olive oil, native	279609	1
Sanacorp	Olive oil, native	308229	1
Sanacorp	Jojoba Oil, native	30948	1
sanacorp	Jojoba Oil, native	418601031	1
Sanacorp	Olive oil, native	5/AKD13	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Almond oil, refined	5214206	2
Sanacorp	Almond oil, refined	5415901	2
Sanacorp	Almond oil, refined	5438302	1
Sanacorp	Borage oil, refined, stabili…	619204581	1
Sanacorp	Avocado oil, refined	713301202	1
Sanacorp	Jojoba Oil, native	80002391001	2
Sanacorp	Almond oil, refined	8001497001	1
Sanacorp	Codliver oil (type A)	8002468002	1
Sanacorp	Almond oil, refined	8003503001	1
Sanacorp	Almond oil, refined	8003503002	1
Sanacorp	Jojoba Oil, native	8003732001	1
Sanacorp	Almond oil, refined	8005803007	2
Sanacorp	Almond oil, refined	807584002	1
Sanacorp	Evening primrose oil, refined	AP144174	1
Sanacorp	Evening primrose oil, refined	BTR36050-01	1
Sanacorp	Evening primrose oil, refined	EP745611-1	1
Sanacorp	Evening primrose oil, refined	EP848211-1	1
Sanacorp	Codliver oil (type A)	Lamotte5641901	1
Sanacorp	Evening primrose oil, refined	Med1001078	1
Sanacorp;13.05.15; 2,94EUR	Peanut oil, refined	14355905	1
Sanacrop	Wheatgerm oil, refined	19143201	1
Sanacrop	Almond oil, refined	19187101	1
SANMARK Lim./Gehe	Evening primrose oil, refined	1901046-01	1
Sanmark Limited/ Allian…	Evening primrose oil, refined	1911009-01	1
sanmark limited/gehe	Evening primrose oil, refined	2003029-01	1
Sanmark Limited/Noweda	Evening primrose oil, refined	EP848211-1	1
Sanmark Limited/Sanacorp	Evening primrose oil, refined	2003029	1
Sanmark Limited	Evening primrose oil, refined	160800801	1
SANMARK LIMITED	Evening primrose oil, refined	1704018-01	1
SANMARK LIMITED	Evening primrose oil, refined	1710011-02	3
Sanmark Limited	Evening primrose oil, refined	1901046-01	1
Sanmark Limited	Evening primrose oil, refined	1911009-01	4
Sanmark Limited	Evening primrose oil, refined	2003029-01	4
Sanmark Limited	Evening primrose oil, refined	2008037-02	1
Sanmark Limited	Evening primrose oil, refined	BTR340388-01	1
SANMARK LIMITED	Evening primrose oil, refined	BTR340388-01	1
Sanmark Limited	Evening primrose oil, refined	BTR34951201	1
Sanmark Limited	Evening primrose oil, refined	BTR360506-01	1
SANMARK LIMITED	Evening primrose oil, refined	EP713711-1	1
Sanmark Limited	Evening primrose oil, refined	EP848211-1	1
Sanmark ltd./Sanacorp	Evening primrose oil, refined	1608008-01	1
Sanmark/AHD	Evening primrose oil, refined	1901046-01	1
Sanmark/Jenne/11.06.20	Evening primrose oil, refined	BTR340388-01	1
Sanmark/Noweda	Evening primrose oil, refined	1710011-02	1
Sanmark/noweda	Evening primrose oil, refined	1803006-01	1
Sanmark/Noweda	Evening primrose oil, refined	1901046-01	1
Sanmark/Phoenix	Evening primrose oil, refined	BTR340388-01	6
Sanmark/Phoenix	Evening primrose oil, refined	BTR349512-01	3
Sanmark/Phoenix	Evening primrose oil, refined	BTR360506-01	2
Sanmark/Phönix	Evening primrose oil, refined	2003029-01	4
Sanmark/Phönix	Evening primrose oil, refined	EP848211-1	1
Sanmark/Sanacorp	Evening primrose oil, refined	1803006-02	1
Sanmark/Sanacorp	Evening primrose oil, refined	BTR349512-01	1
Sanmark	Evening primrose oil, refined	2003029	1
sanmark	Evening primrose oil, refined	BTR349512-01	2
Sanmarkt/Noweda	Evening primrose oil, refined	1704018-01	4
Sanmarl Limited / Gaibo	Evening primrose oil, refined	BTR360506-01	1
Schubert / Phoenix	Sunflower oil, refined	1423F0-2027	2
Schupp	Almond oil, refined	17010	1
Sheabutter Import Franz…	Shea butter, refined	14-3-0001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sheabutter Import Franz…	Shea butter, refined	14314-18515	1
Sheabutter-Import Franz…	Shea butter, refined	413-0001	1
Spangro 03.12.2018	Evening primrose oil, refined	EP745611-1	1
Spangro 15.3.2019	Olive oil, native	18208110	2
Spangro 19.5.14	Almond oil, refined	5615001	1
Spangro 22.10.2018	Avocado oil, refined	1000005537	1
Spangro 24.03.2014	Olive oil, native	13350104	1
Spangro	Olive oil, native	5107101	1
Spangropharm	Avocado oil, refined	13361402	1
Spangropharm	Codliver oil (type A)	5529601	1
Spinnrad / Alliance Hea…	Borage oil, refined, stabili…	1217204583	1
Spinnrad / Sanacorp 05.…	Evening primrose oil, refined	518204551	1
Spinnrad / Sanacorp 30.…	Evening primrose oil, refined	518404552	2
Spinnrad GmbH	Evening primrose oil, refined	516204552	1
Spinnrad GmbH	Borage oil, refined, stabili…	616204581	1
Spinnrad GmbH	Almond oil, refined	713301223	1
Spinnrad GmbH	Almond oil, refined	913301224	1
Spinnrad GmbH	Avocado oil, refined	916301202	1
Spinnrad/ Noweda	Borage oil, refined, stabili…	418204581	1
Spinnrad/ Noweda	Almond oil, refined	419101222	1
Spinnrad/AHD	Avocado oil, refined	720301202	1
Spinnrad/Gehe	Grape seed oil, refined	419301551	1
Spinnrad/Noweda	Evening primrose oil, refined	519404551	2
Spinnrad/Phoenix	Almond oil, refined	219401071	1
Spinnrad/Phönix	Almond oil, refined	118401071	1
Spinnrad/Phönix	Shea butter, refined	416300182	1
Spinnrad/Phönix	Borage oil, refined, stabili…	619204581	1
Spinnrad/Sanacorp	Borage oil, refined, stabili…	1018204582	2
Spinnrad/Sanacorp	Olive oil, native	18208110	1
Spinnrad	Borage oil, refined, stabili…	1115204582	1
Spinnrad	Evening primrose oil, refined	1116204553	1
spinnrad	Avocado oil, refined	1118301202	1
Spinnrad	Almond oil, refined	118401071	2
Spinnrad	Almond oil, refined	1215048093	1
Spinnrad	Evening primrose oil, refined	1218404553	1
Spinnrad	Almond oil, refined	1219101224	1
Spinnrad	Shea butter, refined	217300181	1
Spinnrad	Sesame oil, refined	219601091	1
Spinnrad	Jojoba Oil, native	220601031	1
Spinnrad	Jojoba Oil, native	315601031	1
Spinnrad	Almond oil, refined	316101221	3
Spinnrad	Jojoba Oil, native	319601031	1
Spinnrad	Sesame oil, refined	319601092	2
spinnrad	Sesame oil, refined	320601091	1
Spinnrad	Jojoba Oil, native	416601031	1
Spinnrad	Almond oil, refined	418048091	1
Spinnrad	Borage oil, refined, stabili…	418204581	2
Spinnrad	Avocado oil, refined	418301201	1
Spinnrad	Evening primrose oil, refined	519404551	1
Spinnrad	Borage oil, refined, stabili…	617204582	1
Spinnrad	Avocado oil, refined	618301212	1
Spinnrad	Borage oil, refined, stabili…	619204581	1
Spinnrad	Borage oil, refined, stabili…	820204582	2
Spinnrad	Avocado oil, refined	917301202	1
Spinrad	Jojoba Oil, native	617601032	1
Spirig /Noweda	Evening primrose oil, refined	1407002-01	1
Stifts-Apotheke	Borage oil, refined, stabili…	15305002	1
Stumpf / Hedinger	Codliver oil (type A)	5878701	1
Stumpf/Henry Lamotte	Codliver oil (type A)	119929	1
Stumpf/Henry Lamotte	Codliver oil (type A)	123823	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Stumpf/Henry Lamotte	Flaxseed oil, native	124116	1
Stumpf/Henry Lamotte	Evening primrose oil, refined	145691	1
Stumpf/Henry Lamotte	Almond oil, refined	5415901	2
Stumpf/Henry Lamotte	Almond oil, refined	5438302	4
Stumpf/Henry Lamotte	Almond oil, refined	5493001	4
Stumpf/Henry Lamotte	Codliver oil (type A)	5693101	1
Stumpf/Henry Lamotte	Almond oil, refined	5748601	2
Stumpf/Henry Lamotte	Almond oil, refined	5919600001	2
SysKem Chemie	Oleyl oleate (stabilised)	35885	1
SysKem Chemie	Oleyl oleate (stabilised)	8002060413	1
TAOASIS GmbH	Evening primrose oil, refined	1804A0479-6728	1
Taoasis GmbH	Evening primrose oil, refined	1909A1892-9083CN	1
Taoasis GmbH	Jojoba Oil, native	5445301-112580	1
Taoasis/Anzag	Jojoba Oil, native	133535-123190	1
Taoasis/Anzag	Jojoba Oil, native	2a5890402	1
Taoasis/Anzag	Jojoba Oil, native	2a5890402-121152	1
Taoasis/Anzag	Jojoba Oil, native	5815901-118834	3
Taoasis/Anzag	Jojoba Oil, native	5864501-119639	1
Taoasis/Noweda	Evening primrose oil, refined	11878BCNN02	1
Taoasis/Noweda	Almond oil, refined	130973	1
taoasis/Noweda	Evening primrose oil, refined	37282-115267	1
Taoasis/Phoenix	Almond oil, refined	103325-1265	1
Taoasis/Phönix	Evening primrose oil, refined	A128740	1
Taoasis/Sanacorp	Avocado oil, refined	126503-160A1196	1
Taoasis/Sanacorp	Avocado oil, refined	127660	1
Taoasis/Sanacorp	Avocado oil, refined	1606A1034-126013	1
Taoasis/Taoasis	Almond oil, refined	103944-1719	1
Taoasis/Taoasis	Evening primrose oil, refined	1300866-123338	1
Taoasis/Taoasis	Evening primrose oil, refined	16091186-126920	1
Taoasis/Taoasis	Evening primrose oil, refined	1707A0307-2507	1
Taoasis	Avocado oil, refined		1
Taoasis	Almond oil, refined	102235-111893	1
Taoasis	Almond oil, refined	103325-1265	1
Taoasis	Almond oil, refined	103944-1719	1
Taoasis	Almond oil, refined	104542-6050	1
Taoasis	Almond oil, refined	118979-108698	1
Taoasis	Almond oil, refined	119249-109910	1
Taoasis	Evening primrose oil, refined	120161-93968	1
Taoasis	Evening primrose oil, refined	12096-99883	2
Taoasis	Almond oil, refined	12842-116104	1
Taoasis	Almond oil, refined	130973-116149	1
Taoasis	Almond oil, refined	130973-118607	1
Taoasis	Almond oil, refined	132805-118635	1
Taoasis	Jojoba Oil, native	133535-123190	2
Taoasis	Jojoba Oil, native	133535-123399	1
Taoasis	Almond oil, refined	133805-120282	1
Taoasis	Almond oil, refined	134032-120671	1
Taoasis	Almond oil, refined	134475-1215919	1
Taoasis	Almond oil, refined	135831-121621	2
Taoasis	Jojoba Oil, native	137640-123934	1
Taoasis	Jojoba Oil, native	140545-127891	1
Taoasis	Jojoba Oil, native	141161-1819	2
Taoasis	Jojoba Oil, native	141161-217A	1
Taoasis	Jojoba Oil, native	141161-347	1
Taoasis	Jojoba Oil, native	143650-1819	1
Taoasis	Jojoba Oil, native	143650-3342	2
Taoasis	Jojoba Oil, native	143650-3436	1
Taoasis	Jojoba Oil, native	148266-6547	1
Taoasis	Jojoba Oil, native	150964-10281	1
Taoasis	Jojoba Oil, native	150964-8450	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Taoasis	Jojoba Oil, native	151214-125861	4
Taoasis	Jojoba Oil, native	151214-127674	1
Taoasis	Evening primrose oil, refined	16091186-126868	1
Taoasis	Evening primrose oil, refined	1707A0307-2507	1
Taoasis	Evening primrose oil, refined	1707A307-2506	1
Taoasis	Olive oil, native	17236501	1
Taoasis	Almond oil, refined	19103325-1991	1
Taoasis	Almond oil, refined	19103325-896	1
Taoasis	Almond oil, refined	19103616-1718	1
Taoasis	Almond oil, refined	22-896	1
Taoasis	Jojoba Oil, native	2A5890402-121152	2
Taoasis	Almond oil, refined	31952-123336	1
Taoasis	Almond oil, refined	33489-124674	1
Taoasis	Jojoba Oil, native	3403UY	1
Taoasis	Almond oil, refined	34371-125478	1
Taoasis	Almond oil, refined	35171-125735	1
Taoasis	Almond oil, refined	3548810	1
Taoasis	Evening primrose oil, refined	3723-107968	1
Taoasis	Almond oil, refined	37293-128349	1
Taoasis	Evening primrose oil, refined	3788-116147	1
Taoasis	Evening primrose oil, refined	3843-121697	2
Taoasis	Jojoba Oil, native	4674401-67053	1
Taoasis	Jojoba Oil, native	5225101-108329	1
Taoasis	Jojoba Oil, native	5336301-109515	1
Taoasis	Jojoba Oil, native	5336301-111368	1
Taoasis	Jojoba Oil, native	5406801-111216	1
Taoasis	Jojoba Oil, native	5406801-111877	1
Taoasis	Jojoba Oil, native	5445301-112580	2
Taoasis	Almond oil, refined	5452701-111421	1
Taoasis	Almond oil, refined	5511701-1113571	1
Taoasis	Almond oil, refined	5511701-113571	1
Taoasis	Avocado oil, refined	92010-105977	1
taosis/Phönix	Apricot kernel oil, refined	134933-124392	1
Taosis	Sesame oil, refined	1929	1
Th. Geyer	Olive oil, native	17038702	2
Th. Geyer	Shea butter, refined	18236002	1
THC/ Phönix Pharma Eink…	Almond oil, refined	128843	1
THC/ Phönix Pharma Eink…	Borage oil, refined, stabili…	141603	1
Tilary	Grape seed oil, refined	N0000002752	1
Tilary	Grape seed oil, refined	N0000008106	1
Tilrag GmbH	Grape seed oil, refined	N0000008088	1
tilray / Sanacorp	Grape seed oil, refined	N000000413	1
tilray / Sanacorp	Grape seed oil, refined	N0000006850	1
tilray / Sanacorp	Grape seed oil, refined	N0000008083	3
tilray / Sanacorp	Grape seed oil, refined	N0000008413	1
tilray / Sanacorp	Grape seed oil, refined	N0000008543	1
tilray / Sanacorp	Grape seed oil, refined	N0000008847	1
tilray / Sanacorp	Grape seed oil, refined	N000006119	1
Tilray Deutschland GmbH…	Grape seed oil, refined	N0000008080	12
Tilray Deutschland GmbH…	Grape seed oil, refined	N0000007111	1
Tilray Deutschland GmbH	Grape seed oil, refined	N0000006852	2
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008105	1
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008106	2
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008398	9
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008413	1
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008414	1
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008543	3
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008548	1
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008842	3
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008845	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008847	1
Tilray Deutschland GmbH	Grape seed oil, refined	N0000008849	5
Tilray Deutschland GmbH	Grape seed oil, refined	N0000009342	4
Tilray Deutschland GmbH	Grape seed oil, refined	N0000009346	1
Tilray Deutschland GmbH	Grape seed oil, refined	N0000009347	4
Tilray Gehe	Grape seed oil, refined	N00000006115	1
Tilray Gehe	Grape seed oil, refined	N0000006850	1
Tilray GmbH	Grape seed oil, refined	N0000007111	1
Tilray GmbH	Grape seed oil, refined	N0000008083	2
Tilray GmbH	Grape seed oil, refined	N0000008105	1
Tilray GmbH	Grape seed oil, refined	N0000008203	2
Tilray GmbH	Grape seed oil, refined	N0000008398	1
Tilray GmbH	Grape seed oil, refined	N0000008413	2
Tilray GmbH	Grape seed oil, refined	N0000008414	1
Tilray über Paesel und ...	Grape seed oil, refined	N0000005242	2
Tilray über Paesel und ...	Grape seed oil, refined	N0000006051	1
Tilray/Gehe	Grape seed oil, refined	N0000008398	1
Tilray/Gehe	Grape seed oil, refined	N0000008548	1
Tilray/Gehe	Grape seed oil, refined	N0000008842	1
Tilray/Gehe	Grape seed oil, refined	N0000009343	1
Tilray/Gehe	Grape seed oil, refined	N0000009346	1
Tilray	Grape seed oil, refined	N00000006115	1
Tilray	Grape seed oil, refined	N0000004666	1
Tilray	Grape seed oil, refined	N0000004667	1
Tilray	Grape seed oil, refined	N0000006053	1
Tilray	Grape seed oil, refined	N0000006115	5
Tilray	Grape seed oil, refined	N0000006728	1
Tilray	Grape seed oil, refined	N0000006849	1
Tilray	Grape seed oil, refined	N0000006850	1
Tilray	Grape seed oil, refined	N0000006852	2
Tilray	Grape seed oil, refined	N0000008083	1
Tilray	Grape seed oil, refined	N0000008105	1
Tilray	Grape seed oil, refined	N0000008203	2
Tilray	Grape seed oil, refined	N0000008414	1
Tilray	Grape seed oil, refined	N0000008548	1
VDL 06.05.Preis 6,70	Avocado oil, refined	700325//05R06	1
VDL 21.05;Preis 9,84	Almond oil, refined	13236406//05R05	1
VDL	Oleyl oleate (stabilised)	12220205	2
VDL	Codliver oil (type A)	5878701	1
VDL;	Wheatgerm oil, refined	13261603	1
VDL;11.3.16;2,77EUR	Avocado oil, refined	15268203	1
VDL;11.3.16;3,45EUR	Wheatgerm oil, refined	15374101	2
VDL;2.51EUR;22.06.15	Flaxseed oil, native	15116702	1
VDL;22.05.15;11.47EUR	Almond oil, refined	14215807	1
VDL;3,44EUR;22.05.15	Wheatgerm oil, refined	14356001	1
Vertanical GmbH	Sesame oil, refined	SOE1000011400-V001	1
Vertanical / Ebert	Sesame oil, refined	92011	1
Vertanical GmbH	Sesame oil, refined	92011	3
Vertanical GmbH	Sesame oil, refined	SOE1000014055	7
Vertanical GmbH	Sesame oil, refined	SOE1000014055-V001	1
Vertanical GmbH	Sesame oil, refined	SOE12000014055	1
Vertanical Herstellkit	Sesame oil, refined	92021A	1
Vertanical/Anzag	Sesame oil, refined	92011	1
Vertanical/Noweda	Sesame oil, refined	SOE10000	1
Vertanical/Noweda	Sesame oil, refined	SOE1000014055	2
Vertanical/Noweda	Sesame oil, refined	SOE1000014055-V001	3
Vertanical/Noweda	Sesame oil, refined	SOE1000016920	2
Vertanical/Phoenix	Sesame oil, refined	SOE1000014055	5
Vertanical/Phönix	Sesame oil, refined	92011	2
Vertanical/Phönix	Sesame oil, refined	SOE1000014055	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Vertanical/Phönix	Sesame oil, refined	SOE1000014055-V001	1
Vertanical	Sesame oil, refined	2071127	1
vertanical	Sesame oil, refined	92011	2
Vertanical	Sesame oil, refined	92011	9
Vertanical	Sesame oil, refined	SOE1000014055	2
Voegele	Walnut oil, refined	2013113013	2
Vögele	Walnut oil, refined	2017113718	1
WE:Phönix 25.08.2016 EK...	Almond oil, refined	1000003242	2
Weltecke /Noweda	Jojoba Oil, native	89010416	1
Weltecke GmbH	Evening primrose oil, refined	80011115	1
weltecke/Noweda	Evening primrose oil, refined	80010212	1
Weltecke	Evening primrose oil, refined	80011012	1
Welteckes	Evening primrose oil, refined	80010318	1
Wepa/ Phoenix	Avocado oil, refined	17038802	1
wilco	Jojoba Oil, native	2480	1
Wolf Handelsgesellschaft	Olive oil, native	128972ES	1
Wolf Handelsgesellschaft	Sunflower oil, refined	1692305SK	1
Wolf Handelsgesellschaft	Sunflower oil, refined	1822313	1
Wolf-Apotheke	Evening primrose oil, refined	15417802	2
Wolfvital	Olive oil, native	W48B041	1
Wolfvital	Shea butter, refined	W68B058	1
xxx	Almond oil, refined		1

- 269 613 spectra from 1324 *Apo-Ident* customers from a total of 48 917 batches from a further 319 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Triglycerides* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Triglycerides* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	6680	0	61 819
Type B	0	6635	0	104 098
Type C	0	27 749	96	269 315

The substance/substance group *Triglycerides* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.9102 %)
Type B	100.0000 % (> 99.9680 %)	100.0000 % (> 99.9096 %)
Type C	100.0000 % (> 99.6890 %)	99.6552 % (> 99.6445 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Triglycerides* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	**Distance in main model**	**Distance in second-stage model**
Softisan® 378	12.61	–
Salicylic acid concentrate 5%, white p…	21.43	–
Permethrin 25% solution	22.16	–
Softisan® 649	26.50	–
Sorbitan trioleate	27.21	–
Wool alcohol ointment DAB	30.51	–
Paraffin, yellow	32.20	–
Paraffin, white	32.71	–
Wool fat	35.32	–
Pasta Cordes®	35.98	–
Metronidazole 25% in white petrolatum	36.48	–
Hydrophilic ointment DAB	37.11	–
Castor oil, virgin	38.32	–
Emulsifying hydrophobic base gel DAC	39.03	–
Eye ointment, emulsifying DAC	39.25	–
Isopropyl palmitate	39.50	–
Paraffin, light liquid	40.40	–
Triglycerides, medium-chain	41.52	–
Hydrophobic base gel DAC	42.08	–
Triglycerol diisostearate	43.22	–
Paraffin, liquid	45.46	–
Citronella oil	45.66	–
Unguentum Cordes®	46.86	–
Castor oil, refined	47.21	–
Wool alcohol ointment SR with white pa…	48.22	–
Guaiazulene 25%, water-soluble	48.63	–
Squalane	49.69	–
Sorbitan- and glycerol monooleate	55.24	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Triglycerides* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30647	31350	1.67	45.59
30679	31729	2.22	88.16
30754	35299	5.40	32.03
30840	33060	4.45	30.61
30855	31775	2.91	70.84
30863	35299	8.54	31.98
30873	31350	4.75	45.92
30878	31361	5.21	70.78
30981	30981	0.00	66.14
31016	31016	0.00	55.52
31034	31523	1.11	31.56
31121	31121	0.00	62.15
31122	31122	0.00	35.55
31161	31161	0.00	62.41
31172	31172	0.00	78.02
31178	31729	4.49	86.03
31215	31215	0.00	46.76
31216	31216	0.00	65.44
31217	31217	0.00	53.33
31246	31246	0.00	31.26
31250	31250	0.00	28.20
31274	31274	0.00	52.08
31322	31322	0.00	46.06
31326	33064	5.04	84.34
31332	31332	0.00	49.41
31336	31336	0.00	33.08
31337	31770	1.60	36.04
31344	31274	2.12	52.50
31346	31801	1.63	31.19
31350	31350	0.00	44.21
31356	32195	1.33	32.43
31361	31361	0.00	65.97
31362	32334	3.49	62.89
31374	31274	2.08	51.90
31375	31375	0.00	27.21
31376	34716	2.26	44.12
31378	35782	3.85	55.30
31380	31216	2.20	64.92
31382	31382	0.00	36.68
31384	31161	3.07	62.26
31460	31460	0.00	67.36
31482	31322	1.44	45.13
31491	31491	0.00	54.14
31496	31496	0.00	32.23
31513	31513	0.00	28.26
31519	31322	3.37	44.62
31523	31523	0.00	28.31
31540	31729	2.46	87.76
31572	31572	0.00	66.32
31582	31513	6.39	31.38
31584	31382	1.22	37.37
31585	31801	3.87	34.50

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31589	31460	2.98	67.22
31609	31609	0.00	50.47
31662	31801	2.00	33.35
31677	31361	6.51	68.41
31729	31729	0.00	89.60
31770	31770	0.00	35.76
31775	31775	0.00	68.80
31792	31729	0.80	89.34
31801	31801	0.00	31.66
31825	31361	5.30	64.93
31826	31513	5.94	30.78
31833	31833	0.00	31.91
31834	34643	3.05	58.00
31875	31729	7.07	84.53
32186	32186	0.00	30.99
32188	32188	0.00	34.68
32195	32195	0.00	31.20
32300	31513	9.50	30.77
32301	31513	4.18	27.94
32334	32334	0.00	61.09
32457	32457	0.00	31.70
32680	32680	0.00	32.04
32683	32683	0.00	27.44
32729	31161	3.92	56.69
32730	35043	5.47	56.48
32745	31217	3.24	52.05
32746	31161	3.75	60.00
32931	34666	3.47	28.88
32990	33085	1.51	33.17
32991	32457	3.36	33.20
33059	33059	0.00	33.32
33060	33060	0.00	30.05
33063	33063	0.00	34.42
33064	33064	0.00	76.08
33067	33067	0.00	34.75
33070	33070	0.00	31.84
33085	33085	0.00	32.55
33254	34807	4.72	44.31
33255	31122	2.67	34.24
33309	33309	0.00	59.58
33472	31016	2.71	56.54
33510	35579	3.62	63.60
33876	34300	3.70	43.52
33880	31172	1.59	78.79
33916	33916	0.00	66.37
33917	33917	0.00	49.09
34300	34300	0.00	46.65
34437	34437	0.00	53.11
34441	34441	0.00	45.90
34521	35045	3.56	33.59
34522	33064	4.97	84.81

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
34602	34602	0.00	55.54
34617	34617	0.00	33.58
34643	34643	0.00	61.46
34663	34663	0.00	42.01
34666	34666	0.00	29.66
34691	34807	1.77	45.02
34701	31609	3.53	50.84
34711	34711	0.00	42.77
34713	34713	0.00	58.00
34716	34716	0.00	40.97
34718	34718	0.00	42.04
34721	34721	0.00	58.94
34751	34751	0.00	33.37
34753	34753	0.00	29.47
34807	34807	0.00	45.63
35018	35018	0.00	36.79
35038	35038	0.00	29.77
35043	35043	0.00	52.06
35045	35045	0.00	29.94
35046	35046	0.00	58.77
35053	35053	0.00	31.78
35055	35055	0.00	40.65
35056	35056	0.00	63.77
35057	35057	0.00	60.52
35271	35271	0.00	53.35
35286	31361	5.73	65.07
35288	33064	5.36	80.08
35299	35299	0.00	34.17
35467	34437	3.39	52.68
35579	35579	0.00	68.12
35740	34711	10.22	39.46
35747	31361	4.24	64.61
35779	35779	0.00	46.93
35780	35780	0.00	51.26
35782	35782	0.00	56.27
35784	35784	0.00	38.64
35785	35785	0.00	53.60
35818	35055	2.22	38.22
35823	35055	0.54	39.74
35847	34437	1.63	48.11
36164	36164	0.00	24.34
36396	31729	1.39	89.61
36484	34718	1.95	42.11
36491	36491	0.00	39.20
36532	36532	0.00	32.30
36535	36535	0.00	59.01

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances,

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Triglycerides, medium-chain**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`31483-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Triglycerides, medium-chain; Oleum neutrale

Special notes

When selecting the *Triglycerides, medium-chain* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Triglycerides, medium-chain	7	25	936

Second-stage model

For differentiation of the substance/substance group *Triglycerides, medium-chain* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Triglycerides, medium-chain*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Triglycerides, m...	13392404	31483	60	AR-14-FG-012976-01
Caelo	Triglycerides, m...	13348507	31484	60	20131028
Euro OTC	Triglycerides, m...	1402019-01	31485	60	20140317
Euro OTC	Triglycerides, m...	1509022	31771	60	20151007*
Euro OTC	Triglycerides, m...	1511011	31804	60	20151125*
Euro OTC	Triglycerides, m...	1601050	31955	60	20160218*
Fagron	Triglycerides, m...	18G13-B01-363706	34674	40	20180824

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 400 spectra of 7 reference samples from the substance/substance group *Triglycerides, medium-chain*. These samples are listed above in the *calibration samples* section. The reference samples come from 7 different batches.
- 68 099 spectra from a total of 1406 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 1010 spectra of 25 reference samples from the substance/substance group *Triglycerides, medium-chain*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 25 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Triglycerides, medium-chain	161243	32204	40
Caelo	Triglycerides, medium-chain	162385	32697	40
Caelo	Triglycerides, medium-chain	170160	33077	40
Caelo	Triglycerides, medium-chain	170784	33312	40
Caelo	Triglycerides, medium-chain	172177	33672	40
Caelo	Triglycerides, medium-chain	191294	34607	40
Caelo	Triglycerides, medium-chain	191993	34608	40
Caelo	Triglycerides, medium-chain	191951	34609	40
Caelo	Triglycerides, medium-chain	192781	34715	40
Caelo	Triglycerides, medium-chain	20000549	35035	40
Euro OTC	Triglycerides, medium-chain	1603041	32278	40
Euro OTC	Triglycerides, medium-chain	1606035	32464	40
Euro OTC	Triglycerides, medium-chain	1701023	32983	40
Euro OTC	Triglycerides, medium-chain	1709014	33845	40
Euro OTC	Triglycerides, medium-chain	1801034	33997	40
Euro OTC	Triglycerides, medium-chain	1812014	34429	40
Euro OTC	Triglycerides, medium-chain	2002001	34827	40
Euro OTC	Triglycerides, medium-chain	2005031	35068	40
Euro OTC	Triglycerides, medium-chain	2007018	35084	40
Euro OTC	Triglycerides, medium-chain	2011015	35137	40
Euro OTC	Triglycerides, medium-chain	2107028	35622	50
Euro OTC	Triglycerides, medium-chain	2201033	36042	40
Euro OTC	Triglycerides, medium-chain	2205015	36278	40
Euro OTC	Triglycerides, medium-chain	2206007	36371	40
Fagron	Triglycerides, medium-chain	19I30-F03-365618	34761	40

- 110 303 spectra from a total of 2641 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 7882 spectra from 1134 *Apo-Ident* customers from 957 batches from the substance/substance group *Triglycerides, medium-chain*.

- Among them are spectra of independent samples from 932 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	Triglycerides, medium-chain	125597	1
	Triglycerides, medium-chain	13E24-N04	3
	Triglycerides, medium-chain	1406016-01	1
/Sanacorp 02.05.2016	Triglycerides, medium-chain	15272004	1
00000000	Triglycerides, medium-chain	103899	1
ACM	Triglycerides, medium-chain	KNC0254J15	5
AEP Direkt	Triglycerides, medium-chain	20003429006	1
AHC	Triglycerides, medium-chain	192866001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
AHD 23.12.2014	Triglycerides, medium-chain	14219003	1
AHD/Bioletics	Triglycerides, medium-chain	123999	1
AHD/Bioletics	Triglycerides, medium-chain	128842	1
AHD/Bioletics	Triglycerides, medium-chain	139107	1
AHD/Bionorica ethics	Triglycerides, medium-chain	125596	1
AHD/Bionorica ethics	Triglycerides, medium-chain	127732	1
AHD/THCPharma	Triglycerides, medium-chain	105041	1
AHD	Triglycerides, medium-chain	123999	1
AHD	Triglycerides, medium-chain	17361002	3
AHD	Triglycerides, medium-chain	18118808	2
AHD	Triglycerides, medium-chain	18238902	2
AHD	Triglycerides, medium-chain	1902005-02	1
AHD	Triglycerides, medium-chain	192866001	2
Alliance Healthcare 08....	Triglycerides, medium-chain	1812014-01	1
Alliance Healthcare	Triglycerides, medium-chain	105041	1
Alliance Healthcare	Triglycerides, medium-chain	116691	1
Alliance Healthcare	Triglycerides, medium-chain	125595	1
Alliance Healthcare	Triglycerides, medium-chain	1302004-02	1
Alliance Healthcare	Triglycerides, medium-chain	135057	3
Alliance Healthcare	Triglycerides, medium-chain	139107	1
Alliance Healthcare	Triglycerides, medium-chain	1606035-01	1
Alliance Healthcare	Triglycerides, medium-chain	1801034-01	1
Alliance Healthcare	Triglycerides, medium-chain	283811	1
Alliance Heasth	Triglycerides, medium-chain	15H03-B03-525271	1
Alliance/Bionorica	Triglycerides, medium-chain	107080	1
Alliance/Fargon	Triglycerides, medium-chain	15H03-B03-525331	1
Allianz	Triglycerides, medium-chain	120015	1
Anzag 11.10.12	Triglycerides, medium-chain	11301109	1
Anzag/Ethics	Triglycerides, medium-chain	109952	1
Anzag/Henry Lamotte	Triglycerides, medium-chain	1504029-02	1
Anzag	Triglycerides, medium-chain	12078604	2
Anzag	Triglycerides, medium-chain	12256505	1
Anzag	Triglycerides, medium-chain	16124304	1
Anzag	Triglycerides, medium-chain	18118807	1
Anzag	Triglycerides, medium-chain	98569	2
apo-ident/ Phönix	Triglycerides, medium-chain	1601050-01	1
Apo-Ident/Noweda	Triglycerides, medium-chain	1606035-02	1
ApoIdent	Triglycerides, medium-chain	1709014-02	1
apo-ident	Triglycerides, medium-chain	2007018-01	1
Apomi	Triglycerides, medium-chain	180325	1
apomix	Triglycerides, medium-chain	116587	1
apomix	Triglycerides, medium-chain	125596	5
Aurora Deutschland GmbH	Triglycerides, medium-chain	148381	1
Aurora Deutschland GmbH	Triglycerides, medium-chain	20-187	2
Aurora GmH	Triglycerides, medium-chain	148381	2
Aurora	Triglycerides, medium-chain	148381	1
Aurora	Triglycerides, medium-chain	20-187	2
Aurora	Triglycerides, medium-chain	201874200-15203430	1
Aurora	Triglycerides, medium-chain	201874200-1880597	1
Aurora	Triglycerides, medium-chain	20-454	2
Aurora	Triglycerides, medium-chain	20-455	1
Aurora	Triglycerides, medium-chain	20-456	2
Beiersdorf / Gehe	Triglycerides, medium-chain	1805020-01	1
Binorica ethics/Phönix	Triglycerides, medium-chain	125596	1
Binorica ethics/Phönix	Triglycerides, medium-chain	125597	1
bio	Triglycerides, medium-chain	105038	1
Bionirca ethics / Allia...	Triglycerides, medium-chain	109951	1
Bionorca	Triglycerides, medium-chain	145766	2
Bionorica ethics	Triglycerides, medium-chain	129880	2
Bionorica ethics	Triglycerides, medium-chain	132615	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica ethics	Triglycerides, medium-chain	153220	1
Bionorica / Alliance He...	Triglycerides, medium-chain	116637	1
Bionorica / Alliance He...	Triglycerides, medium-chain	120017	1
Bionorica / Alliance He...	Triglycerides, medium-chain	123997	1
Bionorica / Alliance	Triglycerides, medium-chain	103902	1
Bionorica / Alliance	Triglycerides, medium-chain	129878	1
Bionorica / Anzag	Triglycerides, medium-chain	123997	1
Bionorica / E	Triglycerides, medium-chain	123999	2
Bionorica / E	Triglycerides, medium-chain	123999(Miglyol	1
Bionorica / Gehe	Triglycerides, medium-chain	123999	1
Bionorica / Gehe	Triglycerides, medium-chain	125596	1
Bionorica / Gehe	Triglycerides, medium-chain	129878	1
Bionorica / Gehe	Triglycerides, medium-chain	132615	1
Bionorica / Kehr	Triglycerides, medium-chain	125597	1
Bionorica / Krieger	Triglycerides, medium-chain	129879	1
Bionorica / Krieger	Triglycerides, medium-chain	129880	1
Bionorica / Krieger	Triglycerides, medium-chain	139105	2
Bionorica / Krieger	Triglycerides, medium-chain	145768	1
bionorica / Phoenix / 0...	Triglycerides, medium-chain	94874	1
Bionorica / Phoenix 03....	Triglycerides, medium-chain	116643	1
bionorica / Phoenix Lei...	Triglycerides, medium-chain	95087	1
Bionorica / Phoenix	Triglycerides, medium-chain	139105	1
Bionorica / Phönix	Triglycerides, medium-chain	120015	1
Bionorica / Phönix	Triglycerides, medium-chain	125597	2
Bionorica / Phönix	Triglycerides, medium-chain	127731	1
Bionorica / Phönix	Triglycerides, medium-chain	129876	1
Bionorica / Phönix	Triglycerides, medium-chain	129880	1
Bionorica / Phönix	Triglycerides, medium-chain	135058	1
Bionorica / Phönix	Triglycerides, medium-chain	137100	1
Bionorica / Phönix	Triglycerides, medium-chain	2x0000128842	1
Bionorica / Sanacorp	Triglycerides, medium-chain	120015	1
Bionorica / Sanacorp	Triglycerides, medium-chain	123015	2
Bionorica / Sanacorp	Triglycerides, medium-chain	139105	1
Bionorica / Sanacorp	Triglycerides, medium-chain	141602	1
Bionorica /Ebert	Triglycerides, medium-chain	103901	1
Bionorica /Ebert	Triglycerides, medium-chain	107078	1
Bionorica /G	Triglycerides, medium-chain	129878	1
Bionorica /Gehe 11.02.19	Triglycerides, medium-chain	125596	1
Bionorica /Phönix	Triglycerides, medium-chain	116640	2
Bionorica /Phönix	Triglycerides, medium-chain	116692	1
Bionorica /Phönix	Triglycerides, medium-chain	120015	2
Bionorica 15.05.20	Triglycerides, medium-chain		1
Bionorica Dronabinol-Set	Triglycerides, medium-chain	107078	1
Bionorica ethi	Triglycerides, medium-chain	128839	2
Bionorica ethics / Ph...	Triglycerides, medium-chain	135058(DronabinolTropfenset0000142331)	2
Bionorica ethics / Ph...	Triglycerides, medium-chain	139105	2
Bionorica ethics / Ph...	Triglycerides, medium-chain	139107	2
bionorica ethics über ...	Triglycerides, medium-chain	129880	2
bionorica ethics über ...	Triglycerides, medium-chain	132615	2
bionorica ethics über ...	Triglycerides, medium-chain	139105	1
bionorica ethics über ...	Triglycerides, medium-chain	141603	2
bionorica ethics über ...	Triglycerides, medium-chain	141604	3
bionorica ethics über ...	Triglycerides, medium-chain	145767	4
bionorica ethics über ...	Triglycerides, medium-chain	145768	2
Bionorica Ethics / Alli...	Triglycerides, medium-chain	129879	1
Bionorica ethics / Alli...	Triglycerides, medium-chain	109951	1
Bionorica ethics / Alli...	Triglycerides, medium-chain	127731	2
Bionorica ethics / Alli...	Triglycerides, medium-chain	127732	1
Bionorica Ethics / Gehe	Triglycerides, medium-chain	116638	1
Bionorica Ethics / Gehe	Triglycerides, medium-chain	116642	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica Ethics / Noweda	Triglycerides, medium-chain	125597	3
Bionorica Ethics / Noweda	Triglycerides, medium-chain	128841	1
Bionorica Ethics / Noweda	Triglycerides, medium-chain	128843	1
Bionorica Ethics / Noweda	Triglycerides, medium-chain	129876	2
Bionorica Ethics / Noweda	Triglycerides, medium-chain	132615	1
Bionorica Ethics / Noweda	Triglycerides, medium-chain	139107	3
Bionorica Ethics / Noweda	Triglycerides, medium-chain	141602	1
Bionorica Ethics / Noweda	Triglycerides, medium-chain	141604	1
Bionorica Ethics / Noweda	Triglycerides, medium-chain	153403	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	103901	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	105039	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	107080	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	109949	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	109951	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	116642	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	125596	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	127731	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	127732	2
Bionorica ethics / Phoe...	Triglycerides, medium-chain	128842	2
Bionorica ethics / Phoe...	Triglycerides, medium-chain	128843	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	129878	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	129880	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	132615	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	135058	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	139107	4
Bionorica ethics / Phoe...	Triglycerides, medium-chain	141602	1
Bionorica ethics / Phoe...	Triglycerides, medium-chain	319105	1
Bionorica Ethics /Phönix	Triglycerides, medium-chain	145767	1
Bionorica ethics GmbH/B...	Triglycerides, medium-chain	129877	1
Bionorica ethics GmbH/P...	Triglycerides, medium-chain	129878	1
Bionorica ethics GmbH	Triglycerides, medium-chain	128839	1
Bionorica Ethics GmbH	Triglycerides, medium-chain	137100	1
Bionorica Ethics GmbH	Triglycerides, medium-chain	138595	2
Bionorica Ethics GmbH	Triglycerides, medium-chain	139105	4
Bionorica Ethics GmbH	Triglycerides, medium-chain	139448	1
Bionorica Ethics GmbH	Triglycerides, medium-chain	140133	3
Bionorica Ethics GmbH	Triglycerides, medium-chain	141267	4
Bionorica Ethics GmbH	Triglycerides, medium-chain	141602	2
Bionorica Ethics GmbH	Triglycerides, medium-chain	143967	1
Bionorica Ethics GmbH	Triglycerides, medium-chain	145051	1
Bionorica ethics GmbH	Triglycerides, medium-chain	250696	1
Bionorica Ethics/ AHD	Triglycerides, medium-chain	128843	1
Bionorica Ethics/ AHD	Triglycerides, medium-chain	129876	1
Bionorica Ethics/ AHD	Triglycerides, medium-chain	132615	1
Bionorica Ethics/ AHD	Triglycerides, medium-chain	139105	1
Bionorica ethics/ Biono...	Triglycerides, medium-chain	129877	2
Bionorica ethics/ Biono...	Triglycerides, medium-chain	132615	2
Bionorica ethics/ Biono...	Triglycerides, medium-chain	135056	2
Bionorica ethics/ Biono...	Triglycerides, medium-chain	139105	2
Bionorica ethics/ Biono...	Triglycerides, medium-chain	141602	2
Bionorica ethics/ Biono...	Triglycerides, medium-chain	141603	4
Bionorica ethics/ Biono...	Triglycerides, medium-chain	141604	1
Bionorica ethics/ Biono...	Triglycerides, medium-chain	1416040	1
Bionorica ethics/ Biono...	Triglycerides, medium-chain	145765	10
Bionorica ethics/ Biono...	Triglycerides, medium-chain	153219	4
Bionorica ethics/ Biono...	Triglycerides, medium-chain	269421	1
Bionorica ethics/ Biono...	Triglycerides, medium-chain	326151	1
Bionorica Ethics/ Gehe	Triglycerides, medium-chain	127731	1
Bionorica Ethics/ Gehe	Triglycerides, medium-chain	129876	2
Bionorica Ethics/ Gehe	Triglycerides, medium-chain	141603	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica ethics/ Gehe	Triglycerides, medium-chain	150694	1
Bionorica ethics/ Kehr ...	Triglycerides, medium-chain	139107	2
Bionorica ethics/ Nowed...	Triglycerides, medium-chain	141604	1
Bionorica ethics/ Noweda	Triglycerides, medium-chain	128841	1
Bionorica ethics/ Noweda	Triglycerides, medium-chain	128843	1
Bionorica ethics/ Noweda	Triglycerides, medium-chain	129878	2
Bionorica ethics/ Noweda	Triglycerides, medium-chain	129879	1
Bionorica ethics/ Noweda	Triglycerides, medium-chain	135058	1
Bionorica ethics/ Noweda	Triglycerides, medium-chain	139105	1
Bionorica ethics/ Noweda	Triglycerides, medium-chain	141267	1
Bionorica ethics/ Noweda	Triglycerides, medium-chain	145051	2
Bionorica Ethics/ Phoenix	Triglycerides, medium-chain	232615	1
Bionorica Ethics/ Sanac...	Triglycerides, medium-chain	154616	1
Bionorica ethics/ Sanac...	Triglycerides, medium-chain	156199	1
Bionorica ethics/AHCA	Triglycerides, medium-chain	116646	1
Bionorica ethics/AHCA	Triglycerides, medium-chain	1409952	1
Bionorica ethics/AHD	Triglycerides, medium-chain	3(0000109950)	1
Bionorica ethics/AHD	Triglycerides, medium-chain	4(0000116692)	1
Bionorica ethics/AHD	Triglycerides, medium-chain	5(171102)	1
Bionorica ethics/AHD	Triglycerides, medium-chain	6(0000116646)	1
Bionorica ethics/AHD	Triglycerides, medium-chain	7(0000116643)	1
Bionorica ethics/Allian...	Triglycerides, medium-chain	116646	1
Bionorica ethics/Allian...	Triglycerides, medium-chain	125596	3
Bionorica Ethics/Anzag	Triglycerides, medium-chain	135058	1
Bionorica ethics/Bionor...	Triglycerides, medium-chain	139107	1
Bionorica ethics/Bionor...	Triglycerides, medium-chain	145765	1
Bionorica ethics/Ebert	Triglycerides, medium-chain	128842	1
Bionorica ethics/Ebert	Triglycerides, medium-chain	129878	1
Bionorica ethics/Ebert	Triglycerides, medium-chain	137367	1
Bionorica Ethics/Fiebig	Triglycerides, medium-chain	116638	1
Bionorica Ethics/Fiebig	Triglycerides, medium-chain	116639	1
Bionorica Ethics/Gehe 0...	Triglycerides, medium-chain	129880	1
Bionorica Ethics/Gehe 0...	Triglycerides, medium-chain	107081	1
Bionorica Ethics/Gehe 1...	Triglycerides, medium-chain	132615	1
Bionorica ethics/Gehe	Triglycerides, medium-chain	127731	1
Bionorica ethics/Gehe	Triglycerides, medium-chain	128842	2
Bionorica Ethics/Gehe	Triglycerides, medium-chain	128843	1
Bionorica Ethics/Gehe	Triglycerides, medium-chain	129878	1
Bionorica ethics/Kehr ,...	Triglycerides, medium-chain	145768	2
Bionorica ethics/Kehr ,...	Triglycerides, medium-chain	139105	1
Bionorica ethics/Kehr	Triglycerides, medium-chain	123999	1
Bionorica ethics/Kehr	Triglycerides, medium-chain	125597	1
Bionorica ethics/Kehr	Triglycerides, medium-chain	128842	1
Bionorica ethics/Kehr	Triglycerides, medium-chain	95082	1
Bionorica ethics/Krieger	Triglycerides, medium-chain	129876	1
Bionorica ethics/Krieger	Triglycerides, medium-chain	129879	3
Bionorica ethics/Krieger	Triglycerides, medium-chain	129880	2
Bionorica ethics/Krieger	Triglycerides, medium-chain	132615	1
Bionorica ethics/Krieger	Triglycerides, medium-chain	135058	3
Bionorica ethics/Krieger	Triglycerides, medium-chain	141603	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	105039	2
Bionorica ethics/Noweda	Triglycerides, medium-chain	107077	2
Bionorica ethics/Noweda	Triglycerides, medium-chain	125596	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	125597	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	127731	1
Bionorica Ethics/Noweda	Triglycerides, medium-chain	127733	1
Bionorica Ethics/Noweda	Triglycerides, medium-chain	128840	1
Bionorica Ethics/Noweda	Triglycerides, medium-chain	128841	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	128842	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	128843	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica ethics/Noweda	Triglycerides, medium-chain	129876	1
Bionorica Ethics/Noweda	Triglycerides, medium-chain	129877	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	129878	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	129879	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	132615	2
Bionorica ethics/Noweda	Triglycerides, medium-chain	135058	6
Bionorica ethics/Noweda	Triglycerides, medium-chain	139105	7
Bionorica ethics/Noweda	Triglycerides, medium-chain	139107	13
Bionorica Ethics/Noweda	Triglycerides, medium-chain	139107	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	139448	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	141602	3
Bionorica ethics/Noweda	Triglycerides, medium-chain	141603	3
Bionorica ethics/Noweda	Triglycerides, medium-chain	141604	7
Bionorica ethics/Noweda	Triglycerides, medium-chain	142331	2
Bionorica ethics/Noweda	Triglycerides, medium-chain	143967	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	145767	5
Bionorica Ethics/Noweda	Triglycerides, medium-chain	145767	2
Bionorica ethics/Noweda	Triglycerides, medium-chain	145768	4
Bionorica ethics/Noweda	Triglycerides, medium-chain	149852	1
Bionorica Ethics/Noweda	Triglycerides, medium-chain	150935	2
Bionorica ethics/Noweda	Triglycerides, medium-chain	155597	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	2887817	1
Bionorica ethics/Noweda	Triglycerides, medium-chain	304345	1
Bionorica Ethics/Noweda	Triglycerides, medium-chain	85113	3
Bionorica Ethics/Noweda	Triglycerides, medium-chain	95112	1
Bionorica Ethics/Phoeni...	Triglycerides, medium-chain	145765	1
Bionorica ethics/Phoenix	Triglycerides, medium-chain	109949	1
Bionorica ethics/Phoenix	Triglycerides, medium-chain	109950	1
Bionorica ethics/Phoenix	Triglycerides, medium-chain	116639	2
Bionorica ethics/Phoenix	Triglycerides, medium-chain	116641	1
Bionorica ethics/Phoenix	Triglycerides, medium-chain	116642	1
Bionorica ethics/Phoenix	Triglycerides, medium-chain	116646	1
Bionorica ethics/Phoenix	Triglycerides, medium-chain	123014	2
Bionorica ethics/Phoenix	Triglycerides, medium-chain	123997	3
Bionorica ethics/Phoenix	Triglycerides, medium-chain	123999	2
Bionorica ethics/Phoenix	Triglycerides, medium-chain	139107	1
Bionorica ethics/Phoenix	Triglycerides, medium-chain	141604	2
Bionorica ethics/Phoenix	Triglycerides, medium-chain	145768	2
Bionorica ethics/Phoenix	Triglycerides, medium-chain	154427	1
Bionorica ethics/Phoenix	Triglycerides, medium-chain	156506	1
Bionorica ethics/Phoenix	Triglycerides, medium-chain	170517	2
Bionorica ethics/Phönix...	Triglycerides, medium-chain	129877	4
Bionorica Ethics/Phönix...	Triglycerides, medium-chain	127780	1
Bionorica ethics/phönix	Triglycerides, medium-chain	123997	1
Bionorica ethics/Phönix	Triglycerides, medium-chain	129879	1
Bionorica ethics/phönix	Triglycerides, medium-chain	141603	2
Bionorica ethics/Sanaco...	Triglycerides, medium-chain	150930	1
Bionorica Ethics/Sanacorp	Triglycerides, medium-chain	116640	2
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	116692	1
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	12399	1
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	125597	1
Bionorica Ethics/Sanacorp	Triglycerides, medium-chain	125597	3
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	127732	1
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	128841	3
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	128842	2
Bionorica Ethics/Sanacorp	Triglycerides, medium-chain	129878	1
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	129880	4
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	132615	4
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	135058	1
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	139105	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica Ethics/Sanacorp	Triglycerides, medium-chain	139105	1
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	139107	3
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	141602	1
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	141603	2
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	141604	2
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	145767	4
Bionorica Ethics/Sanacorp	Triglycerides, medium-chain	145767	2
Bionorica ethics/Sanacorp	Triglycerides, medium-chain	145768	7
Bionorica Ethics/Sanacorp	Triglycerides, medium-chain	145768	3
Bionorica ethics/Sanaco...	Triglycerides, medium-chain	97884	1
Bionorica ethics/Sanaco...	Triglycerides, medium-chain	93569	1
Bionorica ethics/Spangro	Triglycerides, medium-chain	141604	1
Bionorica ethics/Spangro	Triglycerides, medium-chain	145767	2
Bionorica ethics	Triglycerides, medium-chain	103898	3
Bionorica Ethics	Triglycerides, medium-chain	103898	1
Bionorica ethics	Triglycerides, medium-chain	103899	1
Bionorica Ethics	Triglycerides, medium-chain	103899	1
Bionorica ethics	Triglycerides, medium-chain	103901	1
Bionorica ethics	Triglycerides, medium-chain	105038	4
Bionorica Ethics	Triglycerides, medium-chain	105038	1
Bionorica ethics	Triglycerides, medium-chain	105039	1
Bionorica Ethics	Triglycerides, medium-chain	105039	1
Bionorica Ethics	Triglycerides, medium-chain	105040	1
bionorica ethics	Triglycerides, medium-chain	105044	1
Bionorica Ethics	Triglycerides, medium-chain	105044	1
Bionorica ethics	Triglycerides, medium-chain	107077	1
Bionorica Ethics	Triglycerides, medium-chain	107077	1
Bionorica ethics	Triglycerides, medium-chain	107078	1
Bionorica ethics	Triglycerides, medium-chain	107079	2
Bionorica Ethics	Triglycerides, medium-chain	107079	1
Bionorica ethics	Triglycerides, medium-chain	107080	2
Bionorica Ethics	Triglycerides, medium-chain	107080	2
Bionorica ethics	Triglycerides, medium-chain	107081	3
Bionorica Ethics	Triglycerides, medium-chain	109709	1
bionorica ethics	Triglycerides, medium-chain	109948	1
Bionorica ethics	Triglycerides, medium-chain	109948	2
Bionorica Ethics	Triglycerides, medium-chain	109949	1
Bionorica ethics	Triglycerides, medium-chain	109950	1
Bionorica Ethics	Triglycerides, medium-chain	109950	1
Bionorica ethics	Triglycerides, medium-chain	109951	4
Bionorica Ethics	Triglycerides, medium-chain	109951	4
Bionorica ethics	Triglycerides, medium-chain	109952	2
Bionorica Ethics	Triglycerides, medium-chain	109953	1
Bionorica Ethics	Triglycerides, medium-chain	109959	1
Bionorica ethics	Triglycerides, medium-chain	116638	2
Bionorica Ethics	Triglycerides, medium-chain	116638	1
Bionorica ethics	Triglycerides, medium-chain	116639	1
Bionorica Ethics	Triglycerides, medium-chain	116639	1
Bionorica ethics	Triglycerides, medium-chain	116640	1
Bionorica Ethics	Triglycerides, medium-chain	116640	1
Bionorica ethics	Triglycerides, medium-chain	116641	2
Bionorica ethics	Triglycerides, medium-chain	116642	2
Bionorica ethics	Triglycerides, medium-chain	116643	3
Bionorica ethics	Triglycerides, medium-chain	116645	2
Bionorica Ethics	Triglycerides, medium-chain	116646	2
Bionorica ethics	Triglycerides, medium-chain	116687	2
Bionorica ethics	Triglycerides, medium-chain	116688	1
Bionorica Ethics	Triglycerides, medium-chain	116688	3
bionorica ethics	Triglycerides, medium-chain	116689	1
Bionorica Ethics	Triglycerides, medium-chain	116689	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica ethics	Triglycerides, medium-chain	116692	4
Bionorica Ethics	Triglycerides, medium-chain	116692	2
Bionorica ethics	Triglycerides, medium-chain	120015	1
Bionorica Ethics	Triglycerides, medium-chain	120015	2
Bionorica ethics	Triglycerides, medium-chain	120016	2
Bionorica Ethics	Triglycerides, medium-chain	120016	2
Bionorica ethics	Triglycerides, medium-chain	120017	4
Bionorica Ethics	Triglycerides, medium-chain	120017	1
Bionorica ethics	Triglycerides, medium-chain	121317	1
Bionorica ethics	Triglycerides, medium-chain	123013	1
Bionorica ethics	Triglycerides, medium-chain	123015	2
Bionorica Ethics	Triglycerides, medium-chain	123015	1
Bionorica ethics	Triglycerides, medium-chain	123997	8
Bionorica Ethics	Triglycerides, medium-chain	123997	4
Bionorica ethics	Triglycerides, medium-chain	123998	4
Bionorica ethics	Triglycerides, medium-chain	123999	15
Bionorica Ethics	Triglycerides, medium-chain	123999	2
Bionorica ethics	Triglycerides, medium-chain	125596	4
Bionorica Ethics	Triglycerides, medium-chain	125596	6
Bionorica ethics	Triglycerides, medium-chain	125597	12
Bionorica Ethics	Triglycerides, medium-chain	125597	3
Bionorica ethics	Triglycerides, medium-chain	127250	1
Bionorica ethics	Triglycerides, medium-chain	127731	4
Bionorica ethics	Triglycerides, medium-chain	127732	7
Bionorica Ethics	Triglycerides, medium-chain	127732	1
Bionorica Ethics	Triglycerides, medium-chain	127733	5
bionorica ethics	Triglycerides, medium-chain	127780	1
Bionorica ethics	Triglycerides, medium-chain	128840	5
Bionorica Ethics	Triglycerides, medium-chain	128840	1
Bionorica ethics	Triglycerides, medium-chain	128841	2
Bionorica Ethics	Triglycerides, medium-chain	128841	2
Bionorica ethics	Triglycerides, medium-chain	128842	11
Bionorica Ethics	Triglycerides, medium-chain	128842	1
bionorica ethics	Triglycerides, medium-chain	128843	1
Bionorica ethics	Triglycerides, medium-chain	128843	2
Bionorica ethics	Triglycerides, medium-chain	129876	5
Bionorica Ethics	Triglycerides, medium-chain	129876	1
Bionorica ethics	Triglycerides, medium-chain	129877	28
Bionorica Ethics	Triglycerides, medium-chain	129877	2
Bionorica ethics	Triglycerides, medium-chain	129878	2
Bionorica Ethics	Triglycerides, medium-chain	129878	3
Bionorica ethics	Triglycerides, medium-chain	129879	3
Bionorica Ethics	Triglycerides, medium-chain	129879	1
Bionorica ethics	Triglycerides, medium-chain	129880	7
Bionorica Ethics	Triglycerides, medium-chain	129880	1
Bionorica ethics	Triglycerides, medium-chain	132615	8
Bionorica Ethics	Triglycerides, medium-chain	132615	1
Bionorica ethics	Triglycerides, medium-chain	135056	1
Bionorica Ethics	Triglycerides, medium-chain	135056	1
Bionorica ethics	Triglycerides, medium-chain	135058	2
Bionorica Ethics	Triglycerides, medium-chain	135058	1
bionorica ethics	Triglycerides, medium-chain	135958	1
Bionorica ethics	Triglycerides, medium-chain	137367	1
bionorica ethics	Triglycerides, medium-chain	138508	1
bionorica ethics	Triglycerides, medium-chain	139105	3
Bionorica ethics	Triglycerides, medium-chain	139105	38
Bionorica Ethics	Triglycerides, medium-chain	139105	9
Bionorica ethics	Triglycerides, medium-chain	1391050	1
bionorica ethics	Triglycerides, medium-chain	139107	1
Bionorica ethics	Triglycerides, medium-chain	139107	11

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica Ethics	Triglycerides, medium-chain	139107	3
bionorica ethics	Triglycerides, medium-chain	140133	1
Bionorica ethics	Triglycerides, medium-chain	141602	5
Bionorica Ethics	Triglycerides, medium-chain	141602	1
bionorica ethics	Triglycerides, medium-chain	141603	1
Bionorica ethics	Triglycerides, medium-chain	141603	7
Bionorica Ethics	Triglycerides, medium-chain	141603	3
bionorica ethics	Triglycerides, medium-chain	141604	1
Bionorica ethics	Triglycerides, medium-chain	141604	5
bionorica ethics	Triglycerides, medium-chain	145382	1
bionorica ethics	Triglycerides, medium-chain	145765	1
Bionorica ethics	Triglycerides, medium-chain	145765	5
Bionorica Ethics	Triglycerides, medium-chain	145765	3
Bionorica ethics	Triglycerides, medium-chain	145766	1
bionorica ethics	Triglycerides, medium-chain	145767	2
Bionorica ethics	Triglycerides, medium-chain	145767	3
Bionorica Ethics	Triglycerides, medium-chain	145767	5
Bionorica ethics	Triglycerides, medium-chain	145768	11
Bionorica Ethics	Triglycerides, medium-chain	145768	2
Bionorica Ethics	Triglycerides, medium-chain	153220	1
Bionorica Ethics	Triglycerides, medium-chain	156199	1
Bionorica ethics	Triglycerides, medium-chain	156506	1
bionorica ethics	Triglycerides, medium-chain	157871	2
Bionorica Ethics	Triglycerides, medium-chain	16689	1
Bionorica ethics	Triglycerides, medium-chain	170517	1
Bionorica ethics	Triglycerides, medium-chain	171102	1
Bionorica Ethics	Triglycerides, medium-chain	210928(0000145765)	1
Bionorica Ethics	Triglycerides, medium-chain	220201	1
Bionorica Ethics	Triglycerides, medium-chain	220421-04(0000159422)	1
Bionorica Ethics	Triglycerides, medium-chain	220712(0000159423)	1
Bionorica ethics	Triglycerides, medium-chain	266724	1
Bionorica ethics	Triglycerides, medium-chain	271674/0000277854	2
Bionorica Ethics	Triglycerides, medium-chain	283811	1
Bionorica Ethics	Triglycerides, medium-chain	42(0000139105)	1
Bionorica Ethics	Triglycerides, medium-chain	43(0000139105)	1
Bionorica Ethics	Triglycerides, medium-chain	47(0000145765)	1
Bionorica Ethics	Triglycerides, medium-chain	62424	3
Bionorica Ethics	Triglycerides, medium-chain	75316	1
Bionorica ethics	Triglycerides, medium-chain	91713	2
Bionorica ethics	Triglycerides, medium-chain	94875	1
Bionorica Ethics	Triglycerides, medium-chain	94875	1
Bionorica Ethics	Triglycerides, medium-chain	94879	1
Bionorica Ethics	Triglycerides, medium-chain	95079	1
Bionorica Ethics	Triglycerides, medium-chain	95112	1
Bionorica Ethics	Triglycerides, medium-chain	98570	3
bionorica ethics-Noweda	Triglycerides, medium-chain	128842	1
bionorica ethics-Noweda	Triglycerides, medium-chain	128843	1
bionorica ethics-Noweda	Triglycerides, medium-chain	129880	1
bionorica ethics-Noweda	Triglycerides, medium-chain	139107	1
Bionorica etics	Triglycerides, medium-chain	116643	1
Bionorica etics	Triglycerides, medium-chain	120017	1
bionorica gehe	Triglycerides, medium-chain	139107	1
Bionorica SE/Gehe	Triglycerides, medium-chain	145767	1
Bionorica SE/Noweda	Triglycerides, medium-chain	125596	1
Bionorica SE/Noweda	Triglycerides, medium-chain	129876	1
Bionorica SE/Phönix	Triglycerides, medium-chain	116643	1
Bionorica SE	Triglycerides, medium-chain	107080	2
Bionorica SE	Triglycerides, medium-chain	116638	1
Bionorica SE	Triglycerides, medium-chain	116640	1
Bionorica SE	Triglycerides, medium-chain	116689	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica SE	Triglycerides, medium-chain	120015	1
Bionorica SE	Triglycerides, medium-chain	120016	1
Bionorica SE	Triglycerides, medium-chain	123015	2
Bionorica SE	Triglycerides, medium-chain	125597	1
Bionorica SE	Triglycerides, medium-chain	127732	1
Bionorica SE	Triglycerides, medium-chain	129876	1
Bionorica SE	Triglycerides, medium-chain	129880	1
Bionorica SE	Triglycerides, medium-chain	132615	3
Bionorica SE	Triglycerides, medium-chain	139105	2
Bionorica SE	Triglycerides, medium-chain	139107	7
Bionorica SE	Triglycerides, medium-chain	141602	7
Bionorica SE	Triglycerides, medium-chain	141603	2
Bionorica SE	Triglycerides, medium-chain	145765	16
Bionorica SE	Triglycerides, medium-chain	145767	4
Bionorica SE	Triglycerides, medium-chain	148242	2
Bionorica SE	Triglycerides, medium-chain	150694	1
Bionorica SE	Triglycerides, medium-chain	156199	1
Bionorica/ AEP	Triglycerides, medium-chain	141604	2
Bionorica/ AEP	Triglycerides, medium-chain	145768	3
Bionorica/ AHD	Triglycerides, medium-chain	120017	1
Bionorica/ AHD	Triglycerides, medium-chain	123999	1
Bionorica/ AHD	Triglycerides, medium-chain	125597	1
Bionorica/ AHD	Triglycerides, medium-chain	128842	2
Bionorica/ AHD	Triglycerides, medium-chain	129876	4
Bionorica/ AHD	Triglycerides, medium-chain	135058	1
Bionorica/ Alliance	Triglycerides, medium-chain	116639	1
Bionorica/ Alliance	Triglycerides, medium-chain	116641	1
Bionorica/ Alliance	Triglycerides, medium-chain	125595	1
Bionorica/ Alliance	Triglycerides, medium-chain	125596	1
Bionorica/ Alliance	Triglycerides, medium-chain	125597	1
Bionorica/ Alliance	Triglycerides, medium-chain	128839	1
Bionorica/ Alliance	Triglycerides, medium-chain	128843	1
Bionorica/ Alliance	Triglycerides, medium-chain	129876	2
Bionorica/ Alliance	Triglycerides, medium-chain	129880	1
Bionorica/ Alliance	Triglycerides, medium-chain	132615	1
Bionorica/ Alliance	Triglycerides, medium-chain	139105	1
Bionorica/ Alliance	Triglycerides, medium-chain	141602	2
Bionorica/ Alliance	Triglycerides, medium-chain	145767	3
Bionorica/ Alliance	Triglycerides, medium-chain	145768	2
Bionorica/ Allianve	Triglycerides, medium-chain	135056	1
Bionorica/ Anzag	Triglycerides, medium-chain	10(0000123999)	1
Bionorica/ Anzag	Triglycerides, medium-chain	12(0000251649)	1
Bionorica/ Anzag	Triglycerides, medium-chain	13(0000125596)	1
Bionorica/ Anzag	Triglycerides, medium-chain	14(0000125596)	1
Bionorica/ Anzag	Triglycerides, medium-chain	15(0000127732)	1
Bionorica/ Anzag	Triglycerides, medium-chain	16(0000127732)	1
Bionorica/ Anzag	Triglycerides, medium-chain	17(0000127731)	1
Bionorica/ Anzag	Triglycerides, medium-chain	18(0000128842)	1
Bionorica/ Anzag	Triglycerides, medium-chain	19(0000128841)	1
Bionorica/ Anzag	Triglycerides, medium-chain	20(0000128843)	1
Bionorica/ Anzag	Triglycerides, medium-chain	8(0000126132)	1
Bionorica/ Anzag	Triglycerides, medium-chain	9(0000123015)	1
Bionorica/ Bionorica	Triglycerides, medium-chain	210809(0000145765)	1
Bionorica/ Bionorica	Triglycerides, medium-chain	44(0000139105)	1
Bionorica/ Bionorica	Triglycerides, medium-chain	45(0000139105)	1
Bionorica/ Bionorica	Triglycerides, medium-chain	46(0000139105)	1
Bionorica/ Bionorica	Triglycerides, medium-chain	48(0000145765)	1
Bionorica/ Gehe 05.04.19	Triglycerides, medium-chain	127732	1
Bionorica/ Gehe 10.05.19	Triglycerides, medium-chain	127731	1
Bionorica/ Gehe 15.05.19	Triglycerides, medium-chain	125597	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica/ Gehe 17.09.2...	Triglycerides, medium-chain	129876	1
Bionorica/ Gehe	Triglycerides, medium-chain	120016	1
Bionorica/ Gehe	Triglycerides, medium-chain	127731	1
Bionorica/ Gehe	Triglycerides, medium-chain	127732	1
Bionorica/ Gehe	Triglycerides, medium-chain	128841	2
Bionorica/ Gehe	Triglycerides, medium-chain	128843	1
Bionorica/ Gehe	Triglycerides, medium-chain	129876	1
Bionorica/ Gehe	Triglycerides, medium-chain	139107	1
Bionorica/ Gehe	Triglycerides, medium-chain	141603	2
Bionorica/ Gehe	Triglycerides, medium-chain	145767	7
Bionorica/ Krieger	Triglycerides, medium-chain	128842	1
Bionorica/ Noweda	Triglycerides, medium-chain	109950	1
Bionorica/ Noweda	Triglycerides, medium-chain	120017	1
Bionorica/ Otto Gk	Triglycerides, medium-chain	139107	1
Bionorica/ Otto Gk	Triglycerides, medium-chain	141603	3
Bionorica/ Otto Gk	Triglycerides, medium-chain	141604	1
Bionorica/ Otto Gk	Triglycerides, medium-chain	145768	2
bionorica/ Phoenix Leip...	Triglycerides, medium-chain	103900	1
bionorica/ Phoenix Leip...	Triglycerides, medium-chain	98569	1
Bionorica/ Phönix Lab	Triglycerides, medium-chain	127733	3
Bionorica/ Phönix Lab	Triglycerides, medium-chain	132615	5
Bionorica/ Phönix Lab	Triglycerides, medium-chain	135056	3
Bionorica/ Phönix Lab	Triglycerides, medium-chain	141602	4
Bionorica/ Phönix	Triglycerides, medium-chain	129876	1
Bionorica/ Phönix	Triglycerides, medium-chain	139105	2
Bionorica/ Phönix	Triglycerides, medium-chain	139107	1
Bionorica/ Phönix	Triglycerides, medium-chain	145763	1
Bionorica/ Sanacorp	Triglycerides, medium-chain	107077	1
Bionorica/ Sanacorp	Triglycerides, medium-chain	171102	1
Bionorica/	Triglycerides, medium-chain	107078	1
Bionorica/AEP	Triglycerides, medium-chain	145766	1
Bionorica/AHD	Triglycerides, medium-chain	109709	1
Bionorica/AHD	Triglycerides, medium-chain	120016	1
Bionorica/AHD	Triglycerides, medium-chain	123013	1
Bionorica/AHD	Triglycerides, medium-chain	123997	2
Bionorica/AHD	Triglycerides, medium-chain	123999	2
Bionorica/AHD	Triglycerides, medium-chain	125597	1
Bionorica/AHD	Triglycerides, medium-chain	129880	2
Bionorica/AHD	Triglycerides, medium-chain	133557	2
Bionorica/AHD	Triglycerides, medium-chain	135058	1
Bionorica/AHD	Triglycerides, medium-chain	141602	1
Bionorica/Alliance Heal...	Triglycerides, medium-chain	105038	2
Bionorica/Alliance Heal...	Triglycerides, medium-chain	109949	1
Bionorica/Alliance Heal...	Triglycerides, medium-chain	109950	2
Bionorica/Alliance Heal...	Triglycerides, medium-chain	109951	1
Bionorica/Alliance Heal...	Triglycerides, medium-chain	109952	1
Bionorica/Alliance Heal...	Triglycerides, medium-chain	116638	1
Bionorica/Alliance Heal...	Triglycerides, medium-chain	116639	2
Bionorica/Alliance Heal...	Triglycerides, medium-chain	116640	1
Bionorica/Alliance Heal...	Triglycerides, medium-chain	116642	2
Bionorica/Alliance Heal...	Triglycerides, medium-chain	116643	3
Bionorica/Alliance Heal...	Triglycerides, medium-chain	116687	2
Bionorica/Alliance Heal...	Triglycerides, medium-chain	116689	1
Bionorica/Alliance	Triglycerides, medium-chain	117113	1
Bionorica/Anzag	Triglycerides, medium-chain	10538	1
Bionorica/Anzag	Triglycerides, medium-chain	129879	1
Bionorica/Anzag	Triglycerides, medium-chain	135058	2
Bionorica/Anzag	Triglycerides, medium-chain	139105	1
Bionorica/Anzag	Triglycerides, medium-chain	139107	3
Bionorica/Anzag	Triglycerides, medium-chain	98569	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica/Fiebig	Triglycerides, medium-chain	116687	1
BIONORICA/GEHE 26.06.18	Triglycerides, medium-chain	116687	1
BIONORICA/GEHE 15.03.19	Triglycerides, medium-chain	125597	1
Bionorica/Gehe 26.06.2019	Triglycerides, medium-chain	128842	1
Bionorica/Gehe	Triglycerides, medium-chain	105039	1
BIONORICA/GEHE	Triglycerides, medium-chain	109950	1
Bionorica/Gehe	Triglycerides, medium-chain	116638	2
Bionorica/Gehe	Triglycerides, medium-chain	116639	1
Bionorica/Gehe	Triglycerides, medium-chain	120016	1
BIONORICA/GEHE	Triglycerides, medium-chain	120017	1
Bionorica/Gehe	Triglycerides, medium-chain	123997	1
Bionorica/Gehe	Triglycerides, medium-chain	123998	1
Bionorica/Gehe	Triglycerides, medium-chain	125595	1
Bionorica/Gehe	Triglycerides, medium-chain	125597	1
Bionorica/Gehe	Triglycerides, medium-chain	127732	1
BIONORICA/GEHE	Triglycerides, medium-chain	127732	2
Bionorica/Gehe	Triglycerides, medium-chain	128843	1
BIONORICA/GEHE	Triglycerides, medium-chain	129876	1
Bionorica/Gehe	Triglycerides, medium-chain	129877	1
Bionorica/Gehe	Triglycerides, medium-chain	129879	1
Bionorica/Gehe	Triglycerides, medium-chain	129880	1
Bionorica/Gehe	Triglycerides, medium-chain	139107	1
bionorica/Gehe	Triglycerides, medium-chain	141602	1
Bionorica/Jenne 03.09.2...	Triglycerides, medium-chain	139107	1
Bionorica/kehr 27.08.2020	Triglycerides, medium-chain	141603	1
Bionorica/Kehr	Triglycerides, medium-chain	109951	1
Bionorica/Kehr	Triglycerides, medium-chain	116686	1
Bionorica/Kehr	Triglycerides, medium-chain	123997	1
Bionorica/Kehr	Triglycerides, medium-chain	129878	1
Bionorica/Kehr	Triglycerides, medium-chain	129879	1
Bionorica/Kehr	Triglycerides, medium-chain	132615	4
Bionorica/Kehr	Triglycerides, medium-chain	139105	1
Bionorica/Kehr	Triglycerides, medium-chain	141602	2
Bionorica/Kehr	Triglycerides, medium-chain	151130	1
Bionorica/Krieger	Triglycerides, medium-chain	109949	1
Bionorica/Krieger	Triglycerides, medium-chain	109950	1
Bionorica/Krieger	Triglycerides, medium-chain	116638	1
Bionorica/Krieger	Triglycerides, medium-chain	116642	1
Bionorica/Krieger	Triglycerides, medium-chain	120016	1
Bionorica/Krieger	Triglycerides, medium-chain	120017	1
Bionorica/Krieger	Triglycerides, medium-chain	123997	1
Bionorica/Krieger	Triglycerides, medium-chain	123999	1
Bionorica/Krieger	Triglycerides, medium-chain	125596	1
Bionorica/Krieger	Triglycerides, medium-chain	125597	2
Bionorica/Krieger	Triglycerides, medium-chain	127732	1
Bionorica/Krieger	Triglycerides, medium-chain	128842	1
Bionorica/Krieger	Triglycerides, medium-chain	138508	1
Bionorica/Krieger	Triglycerides, medium-chain	139107	1
Bionorica/Krieger	Triglycerides, medium-chain	141602	2
Bionorica/Krieger	Triglycerides, medium-chain	98569	1
Bionorica/Noweda	Triglycerides, medium-chain	103899	2
Bionorica/Noweda	Triglycerides, medium-chain	103900	1
Bionorica/Noweda	Triglycerides, medium-chain	103902	1
Bionorica/Noweda	Triglycerides, medium-chain	105038	1
Bionorica/Noweda	Triglycerides, medium-chain	107079	1
Bionorica/Noweda	Triglycerides, medium-chain	107080	1
Bionorica/Noweda	Triglycerides, medium-chain	123999	1
Bionorica/Noweda	Triglycerides, medium-chain	127731	1
Bionorica/Noweda	Triglycerides, medium-chain	127732	1
Bionorica/Noweda	Triglycerides, medium-chain	128839	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
BIONORICA/Noweda	Triglycerides, medium-chain	128842	1
Bionorica/Noweda	Triglycerides, medium-chain	128843	1
Bionorica/Noweda	Triglycerides, medium-chain	129878	2
Bionorica/Noweda	Triglycerides, medium-chain	129879	1
Bionorica/Noweda	Triglycerides, medium-chain	132615	1
Bionorica/Noweda	Triglycerides, medium-chain	135058	3
Bionorica/Noweda	Triglycerides, medium-chain	137100	1
Bionorica/Noweda	Triglycerides, medium-chain	138037	1
Bionorica/Noweda	Triglycerides, medium-chain	139105	4
Bionorica/Noweda	Triglycerides, medium-chain	139107	1
Bionorica/Noweda	Triglycerides, medium-chain	141602	1
Bionorica/Noweda	Triglycerides, medium-chain	141604	4
Bionorica/Noweda	Triglycerides, medium-chain	143550	1
Bionorica/Noweda	Triglycerides, medium-chain	145382	1
Bionorica/Noweda	Triglycerides, medium-chain	148242	2
Bionorica/Noweda	Triglycerides, medium-chain	149852	1
Bionorica/Noweda	Triglycerides, medium-chain	153403	1
Bionorica/Noweda	Triglycerides, medium-chain	153782	3
Bionorica/Noweda	Triglycerides, medium-chain	154616	1
Bionorica/Noweda	Triglycerides, medium-chain	155597	1
Bionorica/Noweda	Triglycerides, medium-chain	156506	1
Bionorica/Noweda	Triglycerides, medium-chain	93566	1
Bionorica/Noweda	Triglycerides, medium-chain	98573	1
bionorica/Phoenix/29.12...	Triglycerides, medium-chain	95080	1
Bionorica/Phoenix	Triglycerides, medium-chain	107078	1
Bionorica/Phoenix	Triglycerides, medium-chain	116036	1
Bionorica/Phoenix	Triglycerides, medium-chain	116642	1
Bionorica/Phoenix	Triglycerides, medium-chain	123014	2
Bionorica/Phoenix	Triglycerides, medium-chain	123999	2
Bionorica/Phoenix	Triglycerides, medium-chain	127732	1
Bionorica/Phoenix	Triglycerides, medium-chain	128843	4
Bionorica/Phoenix	Triglycerides, medium-chain	129876	2
Bionorica/phoenix	Triglycerides, medium-chain	1318A-03960	1
Bionorica/Phoenix	Triglycerides, medium-chain	132615	5
Bionorica/Phoenix	Triglycerides, medium-chain	145767	7
Bionorica/Phoenix	Triglycerides, medium-chain	153219	1
Bionorica/Phoenix	Triglycerides, medium-chain	154616	2
Bionorica/Phoenix	Triglycerides, medium-chain	171102	1
Bionorica/Phönix IE1125...	Triglycerides, medium-chain	128843	5
Bionorica/Phönix Pharma	Triglycerides, medium-chain	128840	1
Bionorica/Phönix	Triglycerides, medium-chain	105038	1
Bionorica/Phönix	Triglycerides, medium-chain	109953	2
Bionorica/Phönix	Triglycerides, medium-chain	116587	1
Bionorica/Phönix	Triglycerides, medium-chain	116642	1
Bionorica/Phönix	Triglycerides, medium-chain	120015	1
Bionorica/Phönix	Triglycerides, medium-chain	123997	3
Bionorica/Phönix	Triglycerides, medium-chain	123998	1
Bionorica/Phönix	Triglycerides, medium-chain	127732	1
Bionorica/Phönix	Triglycerides, medium-chain	127733	2
Bionorica/Phönix	Triglycerides, medium-chain	128839	4
Bionorica/Phönix	Triglycerides, medium-chain	129876	1
Bionorica/Phönix	Triglycerides, medium-chain	129877	7
Bionorica/Phönix	Triglycerides, medium-chain	129880	5
Bionorica/Phönix	Triglycerides, medium-chain	132615	3
Bionorica/Phönix	Triglycerides, medium-chain	135056	5
Bionorica/Phönix	Triglycerides, medium-chain	135058	1
bionorica/Phönix	Triglycerides, medium-chain	139105	2
Bionorica/Phönix	Triglycerides, medium-chain	139105	12
bionorica/Phönix	Triglycerides, medium-chain	139107	3
Bionorica/Phönix	Triglycerides, medium-chain	141602	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica/Phönix	Triglycerides, medium-chain	141603	1
Bionorica/Phönix	Triglycerides, medium-chain	257537	1
Bionorica/Sanacorp 03.0...	Triglycerides, medium-chain	14604	1
Bionorica/Sanacorp WE:	Triglycerides, medium-chain	85532	1
Bionorica/Sanacorp	Triglycerides, medium-chain	109952	1
Bionorica/Sanacorp	Triglycerides, medium-chain	116640	1
Bionorica/Sanacorp	Triglycerides, medium-chain	123013	1
Bionorica/Sanacorp	Triglycerides, medium-chain	123997	2
Bionorica/Sanacorp	Triglycerides, medium-chain	123999	1
Bionorica/Sanacorp	Triglycerides, medium-chain	125596	2
Bionorica/Sanacorp	Triglycerides, medium-chain	127732	1
Bionorica/Sanacorp	Triglycerides, medium-chain	128841	2
Bionorica/Sanacorp	Triglycerides, medium-chain	129876	2
Bionorica/Sanacorp	Triglycerides, medium-chain	129880	5
Bionorica/Sanacorp	Triglycerides, medium-chain	132615	3
Bionorica/Sanacorp	Triglycerides, medium-chain	135058	2
Bionorica/Sanacorp	Triglycerides, medium-chain	139107	7
Bionorica/Sanacorp	Triglycerides, medium-chain	139448	1
Bionorica/Sanacorp	Triglycerides, medium-chain	147079	1
Bionorica/Sanacorp	Triglycerides, medium-chain	149852	1
Bionorica	Triglycerides, medium-chain		1
Bionorica	Triglycerides, medium-chain	103899	2
Bionorica	Triglycerides, medium-chain	103902	4
Bionorica	Triglycerides, medium-chain	105038	3
bionorica	Triglycerides, medium-chain	107077	1
Bionorica	Triglycerides, medium-chain	107077	1
Bionorica	Triglycerides, medium-chain	107078	1
Bionorica	Triglycerides, medium-chain	107079	4
Bionorica	Triglycerides, medium-chain	107080	2
Bionorica	Triglycerides, medium-chain	109950	3
Bionorica	Triglycerides, medium-chain	109951	1
Bionorica	Triglycerides, medium-chain	109953	2
Bionorica	Triglycerides, medium-chain	116637	2
Bionorica	Triglycerides, medium-chain	116638	1
Bionorica	Triglycerides, medium-chain	116639	1
Bionorica	Triglycerides, medium-chain	116640	1
Bionorica	Triglycerides, medium-chain	116643	4
Bionorica	Triglycerides, medium-chain	116645	3
Bionorica	Triglycerides, medium-chain	116646	2
Bionorica	Triglycerides, medium-chain	116688	1
Bionorica	Triglycerides, medium-chain	116693	2
Bionorica	Triglycerides, medium-chain	120015	4
Bionorica	Triglycerides, medium-chain	120016	2
Bionorica	Triglycerides, medium-chain	120017	1
Bionorica	Triglycerides, medium-chain	123015	1
Bionorica	Triglycerides, medium-chain	123997	6
Bionorica	Triglycerides, medium-chain	123998	8
Bionorica	Triglycerides, medium-chain	123999	6
Bionorica	Triglycerides, medium-chain	125596	3
Bionorica	Triglycerides, medium-chain	125597	6
BIONORICA	Triglycerides, medium-chain	125597	1
Bionorica	Triglycerides, medium-chain	126132	1
Bionorica	Triglycerides, medium-chain	127731	2
bionorica	Triglycerides, medium-chain	127732	1
Bionorica	Triglycerides, medium-chain	127732	2
Bionorica	Triglycerides, medium-chain	127733	2
Bionorica	Triglycerides, medium-chain	128839	12
bionorica	Triglycerides, medium-chain	128841	1
Bionorica	Triglycerides, medium-chain	128841	2
Bionorica	Triglycerides, medium-chain	128842	6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bionorica	Triglycerides, medium-chain	128843	8
Bionorica	Triglycerides, medium-chain	12903	1
Bionorica	Triglycerides, medium-chain	129876	6
Bionorica	Triglycerides, medium-chain	129877	4
Bionorica	Triglycerides, medium-chain	129878	2
Bionorica	Triglycerides, medium-chain	129879	3
Bionorica	Triglycerides, medium-chain	129880	9
Bionorica	Triglycerides, medium-chain	132615	9
Bionorica	Triglycerides, medium-chain	135056	6
Bionorica	Triglycerides, medium-chain	135058	4
Bionorica	Triglycerides, medium-chain	139105	16
Bionorica	Triglycerides, medium-chain	139107	9
Bionorica	Triglycerides, medium-chain	141602	2
Bionorica	Triglycerides, medium-chain	141603	4
Bionorica	Triglycerides, medium-chain	141604	8
Bionorica	Triglycerides, medium-chain	145765	5
Bionorica	Triglycerides, medium-chain	145767	2
bionorica	Triglycerides, medium-chain	145768	1
Bionorica	Triglycerides, medium-chain	145768	3
Bionorica	Triglycerides, medium-chain	150930	1
Bionorica	Triglycerides, medium-chain	153220	2
Bionorica	Triglycerides, medium-chain	153782	1
Bionorica	Triglycerides, medium-chain	156506	1
Bionorica	Triglycerides, medium-chain	159423	1
Bionorica	Triglycerides, medium-chain	180325	1
Bionorica	Triglycerides, medium-chain	191062609	1
Bionorica	Triglycerides, medium-chain	200901609	1
Bionorica	Triglycerides, medium-chain	201111011	1
Bionorica	Triglycerides, medium-chain	250696	1
Bionorica	Triglycerides, medium-chain	269421	1
Bionorica	Triglycerides, medium-chain	275765288005	1
Bionorica	Triglycerides, medium-chain	283811	2
Bionorica	Triglycerides, medium-chain	4817A-03960	1
Bionorica	Triglycerides, medium-chain	58448	11
Bionorica	Triglycerides, medium-chain	69719	2
Bionorica	Triglycerides, medium-chain	79406	1
Bionorica	Triglycerides, medium-chain	87112	2
Bionorica	Triglycerides, medium-chain	87113	1
Bionorica	Triglycerides, medium-chain	91715	1
Bionorica	Triglycerides, medium-chain	91719	2
bionorica	Triglycerides, medium-chain	93574	1
Bionorica	Triglycerides, medium-chain	95080	1
Bionorica	Triglycerides, medium-chain	9673	1
Bionorica	Triglycerides, medium-chain	98569	1
Bionoricaethics (Dronab...	Triglycerides, medium-chain	128843(0137640)	1
Bionoricaethics / K	Triglycerides, medium-chain	120017	1
Bionoricaethics / K	Triglycerides, medium-chain	120017(Miglyol	1
BionoricaEthics / Phöni...	Triglycerides, medium-chain	127733	8
BionoricaEthics/ Bionor...	Triglycerides, medium-chain	129880	1
BionoricaEthics/ Bionor...	Triglycerides, medium-chain	139105	2
Bionoricaethics/ E (Dro...	Triglycerides, medium-chain	170517	1
BionoricaEthics/ Phönix...	Triglycerides, medium-chain	145767	1
BionoricaEthics/ Phönix	Triglycerides, medium-chain	128840	1
BionoricaEthics/AHD	Triglycerides, medium-chain	132615	1
BionoricaEthics/Fiebig	Triglycerides, medium-chain	109952	1
BionoricaEthics/Noweda	Triglycerides, medium-chain		1
BionoricaEthics/Noweda	Triglycerides, medium-chain	105038	1
BionoricaEthics/Noweda	Triglycerides, medium-chain	105041	1
Bionoricaethics/Phoenix	Triglycerides, medium-chain	139105	1
BionoricaEthics	Triglycerides, medium-chain	116643	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bionoricaethics	Triglycerides, medium-chain	1391050	1
BionoricaEthics	Triglycerides, medium-chain	141604	2
BionoricaEthics	Triglycerides, medium-chain	145768	2
bionoricaEthiks/Phoenix	Triglycerides, medium-chain	116687	1
bionoricaEthiks/Phoenix	Triglycerides, medium-chain	145767	1
bionoricaEthiks/Phoenix	Triglycerides, medium-chain	147079	1
BionoricPhoenix	Triglycerides, medium-chain	958448	1
Bionornica	Triglycerides, medium-chain	125597	1
Bionrica Ethics GmbH	Triglycerides, medium-chain	129878	1
Bombastus	Triglycerides, medium-chain	116587	1
Bombastus	Triglycerides, medium-chain	123997	1
Bombastus	Triglycerides, medium-chain	14098306	1
Bombastus	Triglycerides, medium-chain	15139608	1
Bombastus	Triglycerides, medium-chain	1603041-02	1
Bombastus	Triglycerides, medium-chain	17236202	2
Bombastus	Triglycerides, medium-chain	17361001	1
Bombastus	Triglycerides, medium-chain	1801034-01	1
Bombastus	Triglycerides, medium-chain	308509	1
Bombastus	Triglycerides, medium-chain	58/18	1
Caelo	Triglycerides, medium-chain		4
Caelo	Triglycerides, medium-chain	1001008-01	1
Caelo	Triglycerides, medium-chain	101001	1
Caelo	Triglycerides, medium-chain	10124307	1
Caelo	Triglycerides, medium-chain	10194002	1
Caelo	Triglycerides, medium-chain	10356205	1
Caelo	Triglycerides, medium-chain	10356208	1
Caelo	Triglycerides, medium-chain	103899	1
Caelo	Triglycerides, medium-chain	103900	1
Caelo	Triglycerides, medium-chain	105041	5
Caelo	Triglycerides, medium-chain	1060001	2
Caelo	Triglycerides, medium-chain	1060010	1
Caelo	Triglycerides, medium-chain	107080	1
Caelo	Triglycerides, medium-chain	109948	3
Caelo	Triglycerides, medium-chain	11(0000125596)	1
Caelo	Triglycerides, medium-chain	11031502	1
Caelo	Triglycerides, medium-chain	11051706	1
Caelo	Triglycerides, medium-chain	11154601	1
Caelo	Triglycerides, medium-chain	11154602	3
Caelo	Triglycerides, medium-chain	1115805	3
Caelo	Triglycerides, medium-chain	1115811	2
Caelo	Triglycerides, medium-chain	11207501	1
Caelo	Triglycerides, medium-chain	11207502	2
Caelo	Triglycerides, medium-chain	11207503	1
Caelo	Triglycerides, medium-chain	11301106	13
Caelo	Triglycerides, medium-chain	11301109	1
Caelo	Triglycerides, medium-chain	116637	1
Caelo	Triglycerides, medium-chain	116638	2
Caelo	Triglycerides, medium-chain	116640	1
Caelo	Triglycerides, medium-chain	116641	1
Caelo	Triglycerides, medium-chain	116643	1
Caelo	Triglycerides, medium-chain	116646	1
Caelo	Triglycerides, medium-chain	116688	2
Caelo	Triglycerides, medium-chain	116689	1
Caelo	Triglycerides, medium-chain	116690	4
Caelo	Triglycerides, medium-chain	116691	2
Caelo	Triglycerides, medium-chain	116692	1
Caelo	Triglycerides, medium-chain	11D29-N01	1
Caelo	Triglycerides, medium-chain	12078603	12
Caelo	Triglycerides, medium-chain	12078604	15
Caelo	Triglycerides, medium-chain	12078605	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Triglycerides, medium-chain	12079604	1
Caelo	Triglycerides, medium-chain	1210002-01	1
Caelo	Triglycerides, medium-chain	12101303	1
Caelo	Triglycerides, medium-chain	12253802	4
Caelo	Triglycerides, medium-chain	1225604	1
Caelo	Triglycerides, medium-chain	1225605	1
Caelo	Triglycerides, medium-chain	12256504	6
Caelo	Triglycerides, medium-chain	12256505	22
Caelo	Triglycerides, medium-chain	1226505	1
Caelo	Triglycerides, medium-chain	123015	2
Caelo	Triglycerides, medium-chain	12356901	7
Caelo	Triglycerides, medium-chain	12356903	9
Caelo	Triglycerides, medium-chain	12356904	1
Caelo	Triglycerides, medium-chain	12356908	22
Caelo	Triglycerides, medium-chain	12356909	4
Caelo	Triglycerides, medium-chain	123997	2
Caelo	Triglycerides, medium-chain	123998	3
Caelo	Triglycerides, medium-chain	123999	3
Caelo	Triglycerides, medium-chain	125596	6
Caelo	Triglycerides, medium-chain	1256504	1
Caelo	Triglycerides, medium-chain	1256505	1
Caelo	Triglycerides, medium-chain	127732	3
Caelo	Triglycerides, medium-chain	128841	1
Caelo	Triglycerides, medium-chain	128842	1
Caelo	Triglycerides, medium-chain	128843	1
Caelo	Triglycerides, medium-chain	129866002	1
Caelo	Triglycerides, medium-chain	129878	1
Caelo	Triglycerides, medium-chain	1302004-01	1
Caelo	Triglycerides, medium-chain	130200402	1
Caelo	Triglycerides, medium-chain	13081205	1
Caelo	Triglycerides, medium-chain	13095304	12
Caelo	Triglycerides, medium-chain	13095306	3
Caelo	Triglycerides, medium-chain	13098601	16
Caelo	Triglycerides, medium-chain	13098605	5
Caelo	Triglycerides, medium-chain	13124310	1
Caelo	Triglycerides, medium-chain	13159607	1
Caelo	Triglycerides, medium-chain	13177101	9
Caelo	Triglycerides, medium-chain	13177102	21
Caelo	Triglycerides, medium-chain	13177111	1
Caelo	Triglycerides, medium-chain	13210301	1
Caelo	Triglycerides, medium-chain	13348501	5
Caelo	Triglycerides, medium-chain	13348502	8
Caelo	Triglycerides, medium-chain	13348503	9
Caelo	Triglycerides, medium-chain	13348506	5
Caelo	Triglycerides, medium-chain	13392404	2
Caelo	Triglycerides, medium-chain	135058	2
Caelo	Triglycerides, medium-chain	139105	1
Caelo	Triglycerides, medium-chain	139107	1
Caelo	Triglycerides, medium-chain	140133	1
Caelo	Triglycerides, medium-chain	14098305	1
Caelo	Triglycerides, medium-chain	14098306	3
Caelo	Triglycerides, medium-chain	14101704	1
Caelo	Triglycerides, medium-chain	1411009-02	2
Caelo	Triglycerides, medium-chain	141602	1
Caelo	Triglycerides, medium-chain	141603	1
Caelo	Triglycerides, medium-chain	14219003	14
Caelo	Triglycerides, medium-chain	14219007	12
Caelo	Triglycerides, medium-chain	14219009	10
Caelo	Triglycerides, medium-chain	14330503	1
Caelo	Triglycerides, medium-chain	14380802	18

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Triglycerides, medium-chain	14380803	8
Caelo	Triglycerides, medium-chain	14380804	29
Caelo	Triglycerides, medium-chain	145766	1
Caelo	Triglycerides, medium-chain	145768	1
Caelo	Triglycerides, medium-chain	146(18238902)	1
Caelo	Triglycerides, medium-chain	148(192866003)	1
Caelo	Triglycerides, medium-chain	149852	1
Caelo	Triglycerides, medium-chain	14G25-B03-302294	1
Caelo	Triglycerides, medium-chain	15012016	1
Caelo	Triglycerides, medium-chain	1504029-01	1
Caelo	Triglycerides, medium-chain	150402902	1
Caelo	Triglycerides, medium-chain	1504029-02	1
Caelo	Triglycerides, medium-chain	150518	1
Caelo	Triglycerides, medium-chain	15080603	1
Caelo	Triglycerides, medium-chain	15139604	18
Caelo	Triglycerides, medium-chain	15139605	23
Caelo	Triglycerides, medium-chain	15139607	24
Caelo	Triglycerides, medium-chain	15139608	34
Caelo	Triglycerides, medium-chain	15239310	2
Caelo	Triglycerides, medium-chain	15239802	1
Caelo	Triglycerides, medium-chain	15242006	1
Caelo	Triglycerides, medium-chain	15270004	1
Caelo	Triglycerides, medium-chain	1527003	1
Caelo	Triglycerides, medium-chain	1527005	1
Caelo	Triglycerides, medium-chain	15272003	39
Caelo	Triglycerides, medium-chain	15272004	48
Caelo	Triglycerides, medium-chain	15272005	38
Caelo	Triglycerides, medium-chain	15272006	18
Caelo	Triglycerides, medium-chain	15272007	17
Caelo	Triglycerides, medium-chain	15272008	3
Caelo	Triglycerides, medium-chain	152722005	1
Caelo	Triglycerides, medium-chain	152722007	1
Caelo	Triglycerides, medium-chain	15374201	1
Caelo	Triglycerides, medium-chain	15376911	5
Caelo	Triglycerides, medium-chain	1537908	1
Caelo	Triglycerides, medium-chain	15379602/170314M	1
Caelo	Triglycerides, medium-chain	15379606	1
Caelo	Triglycerides, medium-chain	15379608	30
Caelo	Triglycerides, medium-chain	15379609	22
Caelo	Triglycerides, medium-chain	1537961	1
Caelo	Triglycerides, medium-chain	15379610	20
Caelo	Triglycerides, medium-chain	15379611	15
Caelo	Triglycerides, medium-chain	15379612	20
Caelo	Triglycerides, medium-chain	15379690	1
Caelo	Triglycerides, medium-chain	153799612	1
Caelo	Triglycerides, medium-chain	15385501	1
Caelo	Triglycerides, medium-chain	1539605	1
Caelo	Triglycerides, medium-chain	1572003	1
Caelo	Triglycerides, medium-chain	1572005	1
Caelo	Triglycerides, medium-chain	1572006	1
Caelo	Triglycerides, medium-chain	15H03-B03(BTM-Set)	1
Caelo	Triglycerides, medium-chain	15H03-B03-312351	1
Caelo	Triglycerides, medium-chain	15H03-B03-328583	1
Caelo	Triglycerides, medium-chain	15H03-B03-525120	1
Caelo	Triglycerides, medium-chain	15H03-B03-525271	1
Caelo	Triglycerides, medium-chain	15H03-B03-525331	1
Caelo	Triglycerides, medium-chain	15H-B03-525120	1
Caelo	Triglycerides, medium-chain	15H-B03-525331	1
Caelo	Triglycerides, medium-chain	1601050-01	5
Caelo	Triglycerides, medium-chain	1603041-02	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Triglycerides, medium-chain	1606035-01	2
Caelo	Triglycerides, medium-chain	1606035-02	1
Caelo	Triglycerides, medium-chain	1606035-03	3
Caelo	Triglycerides, medium-chain	1612307	1
Caelo	Triglycerides, medium-chain	16124304	15
Caelo	Triglycerides, medium-chain	161243047	1
Caelo	Triglycerides, medium-chain	16124306/170518M	1
Caelo	Triglycerides, medium-chain	16124307	90
Caelo	Triglycerides, medium-chain	16124308	28
Caelo	Triglycerides, medium-chain	16124309	1
Caelo	Triglycerides, medium-chain	16124310	1
Caelo	Triglycerides, medium-chain	16238501	1
Caelo	Triglycerides, medium-chain	16238504	1
Caelo	Triglycerides, medium-chain	16238508	1
Caelo	Triglycerides, medium-chain	16288504	1
Caelo	Triglycerides, medium-chain	16H18-B01	2
Caelo	Triglycerides, medium-chain	16H18-B01-331028	1
Caelo	Triglycerides, medium-chain	16H18-B01-525506	1
Caelo	Triglycerides, medium-chain	17004301	1
Caelo	Triglycerides, medium-chain	1701007	1
Caelo	Triglycerides, medium-chain	170116002	1
Caelo	Triglycerides, medium-chain	17016001	61
Caelo	Triglycerides, medium-chain	17016002	35
Caelo	Triglycerides, medium-chain	1701600201115811	1
Caelo	Triglycerides, medium-chain	17016007	95
Caelo	Triglycerides, medium-chain	1701600711/2019	1
Caelo	Triglycerides, medium-chain	17016008	25
Caelo	Triglycerides, medium-chain	17016601	1
Caelo	Triglycerides, medium-chain	170420MT/16124308	1
Caelo	Triglycerides, medium-chain	1706007	1
Caelo	Triglycerides, medium-chain	17076001	1
Caelo	Triglycerides, medium-chain	17076008	1
Caelo	Triglycerides, medium-chain	171123M/17016009	1
Caelo	Triglycerides, medium-chain	17118807	1
Caelo	Triglycerides, medium-chain	17162701	1
Caelo	Triglycerides, medium-chain	17194901	2
Caelo	Triglycerides, medium-chain	17194902	12
Caelo	Triglycerides, medium-chain	17236202	84
Caelo	Triglycerides, medium-chain	17236203	32
Caelo	Triglycerides, medium-chain	17322107	1
Caelo	Triglycerides, medium-chain	17326202	1
Caelo	Triglycerides, medium-chain	17361001	121
Caelo	Triglycerides, medium-chain	17361002	34
Caelo	Triglycerides, medium-chain	17361003	1
Caelo	Triglycerides, medium-chain	17F16-B02	2
Caelo	Triglycerides, medium-chain	17F16-B02-341874	1
Caelo	Triglycerides, medium-chain	18008807	1
Caelo	Triglycerides, medium-chain	180103401	1
Caelo	Triglycerides, medium-chain	1801034-01	3
Caelo	Triglycerides, medium-chain	1801034-02	2
Caelo	Triglycerides, medium-chain	180109M/17236204	1
Caelo	Triglycerides, medium-chain	180206M/17236204	1
Caelo	Triglycerides, medium-chain	1803111	2
Caelo	Triglycerides, medium-chain	18031307	1
Caelo	Triglycerides, medium-chain	18048203	2
Caelo	Triglycerides, medium-chain	1805020	1
Caelo	Triglycerides, medium-chain	1805020-01	2
Caelo	Triglycerides, medium-chain	180607	4
Caelo	Triglycerides, medium-chain	18110105	1
Caelo	Triglycerides, medium-chain	18111309	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Triglycerides, medium-chain	181118807	1
Caelo	Triglycerides, medium-chain	181188001	1
Caelo	Triglycerides, medium-chain	18118801	93
Caelo	Triglycerides, medium-chain	18118802	15
Caelo	Triglycerides, medium-chain	18118803	3
Caelo	Triglycerides, medium-chain	18118804	1
Caelo	Triglycerides, medium-chain	18118807	119
Caelo	Triglycerides, medium-chain	18118808	22
Caelo	Triglycerides, medium-chain	18118808P-181227-9	1
Caelo	Triglycerides, medium-chain	181188802	1
Caelo	Triglycerides, medium-chain	1812014-01	5
Caelo	Triglycerides, medium-chain	18121703	1
Caelo	Triglycerides, medium-chain	1818801	4
Caelo	Triglycerides, medium-chain	1818807	2
Caelo	Triglycerides, medium-chain	1818808	1
Caelo	Triglycerides, medium-chain	1821953	1
Caelo	Triglycerides, medium-chain	18235901	1
Caelo	Triglycerides, medium-chain	18238901	96
Caelo	Triglycerides, medium-chain	18238902	47
Caelo	Triglycerides, medium-chain	182390003	1
Caelo	Triglycerides, medium-chain	18239003	108
Caelo	Triglycerides, medium-chain	18239004	37
Caelo	Triglycerides, medium-chain	183238901	1
Caelo	Triglycerides, medium-chain	18A19B04	1
Caelo	Triglycerides, medium-chain	18A19-B04-525713	1
Caelo	Triglycerides, medium-chain	18A19-B04-525821	1
Caelo	Triglycerides, medium-chain	18G13-B01-353059	1
Caelo	Triglycerides, medium-chain	18G13-B01-526004	1
Caelo	Triglycerides, medium-chain	19012203	1
Caelo	Triglycerides, medium-chain	1902005-01	3
Caelo	Triglycerides, medium-chain	1902005-02	2
Caelo	Triglycerides, medium-chain	190302002	1
Caelo	Triglycerides, medium-chain	19055101	2
Caelo	Triglycerides, medium-chain	19055103	1
Caelo	Triglycerides, medium-chain	19055104	2
Caelo	Triglycerides, medium-chain	19055105	1
Caelo	Triglycerides, medium-chain	19055106	2
Caelo	Triglycerides, medium-chain	190591206	1
Caelo	Triglycerides, medium-chain	190600001	2
Caelo	Triglycerides, medium-chain	190600002	3
Caelo	Triglycerides, medium-chain	19060001	70
Caelo	Triglycerides, medium-chain	19060002	28
Caelo	Triglycerides, medium-chain	19060002P-191206-2	1
Caelo	Triglycerides, medium-chain	19060003	1
Caelo	Triglycerides, medium-chain	19060004	43
Caelo	Triglycerides, medium-chain	19060005	19
Caelo	Triglycerides, medium-chain	1906001	1
Caelo	Triglycerides, medium-chain	19060010	51
Caelo	Triglycerides, medium-chain	19060011	31
Caelo	Triglycerides, medium-chain	1906002	1
Caelo	Triglycerides, medium-chain	1906004	1
Caelo	Triglycerides, medium-chain	1906005	1
Caelo	Triglycerides, medium-chain	19245202	4
Caelo	Triglycerides, medium-chain	19245203	2
Caelo	Triglycerides, medium-chain	19245205	3
Caelo	Triglycerides, medium-chain	19266008	1
Caelo	Triglycerides, medium-chain	192805005	1
Caelo	Triglycerides, medium-chain	19286001	1
Caelo	Triglycerides, medium-chain	19286002	1
Caelo	Triglycerides, medium-chain	192866001	34

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Triglycerides, medium-chain	192866001P-200518-5	1
Caelo	Triglycerides, medium-chain	192866002	82
Caelo	Triglycerides, medium-chain	192866003	29
Caelo	Triglycerides, medium-chain	192866005	55
Caelo	Triglycerides, medium-chain	192866008	52
Caelo	Triglycerides, medium-chain	192866009	17
Caelo	Triglycerides, medium-chain	19286603	3
Caelo	Triglycerides, medium-chain	19286605	1
Caelo	Triglycerides, medium-chain	19286608	2
Caelo	Triglycerides, medium-chain	192931002	5
Caelo	Triglycerides, medium-chain	19293101	4
Caelo	Triglycerides, medium-chain	19293102	4
Caelo	Triglycerides, medium-chain	1930-f03-526161	1
Caelo	Triglycerides, medium-chain	1960001	1
Caelo	Triglycerides, medium-chain	200002281002	1
Caelo	Triglycerides, medium-chain	200002916003	1
Caelo	Triglycerides, medium-chain	200003429001	1
Caelo	Triglycerides, medium-chain	200003585002	2
Caelo	Triglycerides, medium-chain	20000699002	4
Caelo	Triglycerides, medium-chain	20000699003	3
Caelo	Triglycerides, medium-chain	20000699004	1
Caelo	Triglycerides, medium-chain	20000747004	1
Caelo	Triglycerides, medium-chain	20002281001	8
Caelo	Triglycerides, medium-chain	20002281003	4
Caelo	Triglycerides, medium-chain	20002916002	2
Caelo	Triglycerides, medium-chain	20002916004	3
Caelo	Triglycerides, medium-chain	20003429001	14
Caelo	Triglycerides, medium-chain	20003429004	48
Caelo	Triglycerides, medium-chain	20003429006	25
Caelo	Triglycerides, medium-chain	20003429008	9
Caelo	Triglycerides, medium-chain	20003429009	7
Caelo	Triglycerides, medium-chain	2000342900ca6	1
Caelo	Triglycerides, medium-chain	20003429012	1
Caelo	Triglycerides, medium-chain	2000343001	1
Caelo	Triglycerides, medium-chain	2000344003	1
Caelo	Triglycerides, medium-chain	20003443001	4
Caelo	Triglycerides, medium-chain	20003443003	3
Caelo	Triglycerides, medium-chain	20003443004	1
Caelo	Triglycerides, medium-chain	2000358002	2
Caelo	Triglycerides, medium-chain	20003585002	43
Caelo	Triglycerides, medium-chain	2000799003	1
Caelo	Triglycerides, medium-chain	2002916002	1
Caelo	Triglycerides, medium-chain	200329004	1
Caelo	Triglycerides, medium-chain	2011015-01	1
Caelo	Triglycerides, medium-chain	2014030260	1
Caelo	Triglycerides, medium-chain	20165321	1
Caelo	Triglycerides, medium-chain	20270312-3	1
Caelo	Triglycerides, medium-chain	21001100001	1
Caelo	Triglycerides, medium-chain	21002266003	4
Caelo	Triglycerides, medium-chain	21002661002	2
Caelo	Triglycerides, medium-chain	21002661004	1
Caelo	Triglycerides, medium-chain	21003328001	2
Caelo	Triglycerides, medium-chain	21003328002	1
Caelo	Triglycerides, medium-chain	21003328010	1
Caelo	Triglycerides, medium-chain	21003817002	3
Caelo	Triglycerides, medium-chain	21003817003	11
Caelo	Triglycerides, medium-chain	2101305	1
Caelo	Triglycerides, medium-chain	21071804	1
Caelo	Triglycerides, medium-chain	211227	1
Caelo	Triglycerides, medium-chain	2113Q01998	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Triglycerides, medium-chain	23041803	1
Caelo	Triglycerides, medium-chain	23082013B	1
Caelo	Triglycerides, medium-chain	23339200034431	1
Caelo	Triglycerides, medium-chain	241018E-02	1
Caelo	Triglycerides, medium-chain	27071702	1
Caelo	Triglycerides, medium-chain	27101202	1
Caelo	Triglycerides, medium-chain	28111806	1
Caelo	Triglycerides, medium-chain	29/18	1
Caelo	Triglycerides, medium-chain	31051303	1
Caelo	Triglycerides, medium-chain	3113506	1
Caelo	Triglycerides, medium-chain	3336	1
Caelo	Triglycerides, medium-chain	3413I-01998	1
Caelo	Triglycerides, medium-chain	4110i-01998	1
Caelo	Triglycerides, medium-chain	4420E-03960	1
Caelo	Triglycerides, medium-chain	4817A-01998	1
Caelo	Triglycerides, medium-chain	50775165	1
Caelo	Triglycerides, medium-chain	59/AKD7	1
Caelo	Triglycerides, medium-chain	60492256	1
Caelo	Triglycerides, medium-chain	6051503	1
Caelo	Triglycerides, medium-chain	6061201	1
Caelo	Triglycerides, medium-chain	613A-01998	1
Caelo	Triglycerides, medium-chain	614M1998	1
Caelo	Triglycerides, medium-chain	618E-01998	1
Caelo	Triglycerides, medium-chain	71142383	2
Caelo	Triglycerides, medium-chain	8011301	1
Caelo	Triglycerides, medium-chain	90600041	1
Caelo	Triglycerides, medium-chain	928660021	1
Caelo	Triglycerides, medium-chain	92866051	1
Caelo	Triglycerides, medium-chain	95084	5
Caelo	Triglycerides, medium-chain	A1128013	1
Caelo	Triglycerides, medium-chain	AKD5	1
Caelo	Triglycerides, medium-chain	Caelo	1
Caelo	Triglycerides, medium-chain	ch17016007	1
Caelo	Triglycerides, medium-chain	CHB19060004	2
Caelo	Triglycerides, medium-chain	F12-3661800	1
Caelo	Triglycerides, medium-chain	GT-8009020616	1
Caelo	Triglycerides, medium-chain	MI20190508_01	1
Caeolo/Ahd	Triglycerides, medium-chain	18238901	1
Caeolo/Noweda	Triglycerides, medium-chain	15379608	1
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	15272006	1
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	192866003	1
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	192866005	2
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	17236202	1
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	18238902	1
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	18239005	1
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	190600001	1
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	19060004	2
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	19060001	2
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	19060005	1
Caesar & Loretz GmbH / ...	Triglycerides, medium-chain	19060011	5
Caesar & Loretz GmbH /K...	Triglycerides, medium-chain	21003817003	1
Caesar & Loretz GmbH Hi...	Triglycerides, medium-chain	15379610	1
Caesar & Loretz GmbH, P...	Triglycerides, medium-chain	17016001	1
Caesar & Loretz GmbH/ G...	Triglycerides, medium-chain	192866002	1
Caesar & Loretz GmbH/ G...	Triglycerides, medium-chain	192866005	1
Caesar & Loretz GmbH/ J...	Triglycerides, medium-chain	20003429006	1
Caesar & Loretz GmbH/ M...	Triglycerides, medium-chain	19060001	1
Caesar & Loretz GmbH/ P...	Triglycerides, medium-chain	19060010	1
Caesar & Loretz GmbH/ P...	Triglycerides, medium-chain	192866005	1
Caesar & Loretz GmbH/ P...	Triglycerides, medium-chain	192866008	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/ P…	Triglycerides, medium-chain	192866009	2
Caesar & Loretz GmbH/ S…	Triglycerides, medium-chain	192866009	1
Caesar & Loretz GmbH/AHD	Triglycerides, medium-chain	18239003	1
Caesar & Loretz GmbH/An…	Triglycerides, medium-chain	192866005	1
Caesar & Loretz GmbH/Fi…	Triglycerides, medium-chain	18239003	1
Caesar & Loretz GmbH/Fi…	Triglycerides, medium-chain	192866002	1
Caesar & Loretz GmbH/Fi…	Triglycerides, medium-chain	20003429004	1
Caesar & Loretz GmbH/Gehe	Triglycerides, medium-chain	18238901	1
Caesar & Loretz GmbH/Gehe	Triglycerides, medium-chain	18239003	2
Caesar & Loretz GmbH/GEHE	Triglycerides, medium-chain	19060001	1
Caesar & Loretz GmbH/Gehe	Triglycerides, medium-chain	19060010	1
Caesar & Loretz GmbH/Gehe	Triglycerides, medium-chain	192866002	2
Caesar & Loretz GmbH/Gehe	Triglycerides, medium-chain	192866008	1
Caesar & Loretz GmbH/Gehe	Triglycerides, medium-chain	20003429004	3
Caesar & Loretz GmbH/Gehe	Triglycerides, medium-chain	20003585002	1
Caesar & Loretz GmbH/Gehe	Triglycerides, medium-chain	21003817003	2
Caesar & Loretz GmbH/Je…	Triglycerides, medium-chain	19060010	1
Caesar & Loretz GmbH/K	Triglycerides, medium-chain	125596	1
Caesar & Loretz GmbH/Kehr	Triglycerides, medium-chain	192866002	1
Caesar & Loretz GmbH/Kr…	Triglycerides, medium-chain	20003429004	1
Caesar & Loretz GmbH/No…	Triglycerides, medium-chain	19060011	5
Caesar & Loretz GmbH/P	Triglycerides, medium-chain	192866002	1
Caesar & Loretz GmbH/Ph…	Triglycerides, medium-chain	20003585002	2
Caesar & Loretz GmbH/Ph…	Triglycerides, medium-chain	19060011	1
Caesar & Loretz GmbH/Ph…	Triglycerides, medium-chain	20003429004	1
Caesar & Loretz GmbH/Ph…	Triglycerides, medium-chain	21003817002	1
Caesar & Loretz GmbH/Ph…	Triglycerides, medium-chain	18239003	2
Caesar & Loretz GmbH/ph…	Triglycerides, medium-chain	19060001	1
Caesar & Loretz GmbH/Ph…	Triglycerides, medium-chain	192866003	1
Caesar & Loretz GmbH/Ph…	Triglycerides, medium-chain	192866005	1
Caesar & Loretz GmbH/Sana	Triglycerides, medium-chain	18238901	1
Caesar & Loretz GmbH/Sa…	Triglycerides, medium-chain	18238902	1
Caesar & Loretz GmbH/Sa…	Triglycerides, medium-chain	19060001	1
Caesar & Loretz GmbH/Sa…	Triglycerides, medium-chain	19060010	2
Caesar & Loretz GmbH/sa…	Triglycerides, medium-chain	192866	1
Caesar & Loretz GmbH/Sa…	Triglycerides, medium-chain	192866002	1
Caesar & Loretz GmbH/Sa…	Triglycerides, medium-chain	192866005	1
Caesar & Loretz GmbH/Sa…	Triglycerides, medium-chain	192866008	1
Caesar & Loretz GmbH/Sa…	Triglycerides, medium-chain	20003585002	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	116642	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	12078603	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	13098601	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	17361002	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	17F16-B02-525622	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	18118801	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	1812014-01	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	18238901	11
Caesar & Loretz GmbH	Triglycerides, medium-chain	18238902	2
Caesar & Loretz GmbH	Triglycerides, medium-chain	18239003	28
Caesar & Loretz GmbH	Triglycerides, medium-chain	18239004	7
Caesar & Loretz GmbH	Triglycerides, medium-chain	18239007	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	19055106	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	190600001	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	190600002	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	19060001	18
Caesar & Loretz GmbH	Triglycerides, medium-chain	19060002	12
Caesar & Loretz GmbH	Triglycerides, medium-chain	19060004	10
Caesar & Loretz GmbH	Triglycerides, medium-chain	19060005	9
Caesar & Loretz GmbH	Triglycerides, medium-chain	19060010	18
Caesar & Loretz GmbH	Triglycerides, medium-chain	19060011	24

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Triglycerides, medium-chain	19060012	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	192866001	20
Caesar & Loretz GmbH	Triglycerides, medium-chain	192866002	27
Caesar & Loretz GmbH	Triglycerides, medium-chain	192866003	24
Caesar & Loretz GmbH	Triglycerides, medium-chain	192866005	20
Caesar & Loretz GmbH	Triglycerides, medium-chain	192866008	21
Caesar & Loretz GmbH	Triglycerides, medium-chain	192866009	15
Caesar & Loretz GmbH	Triglycerides, medium-chain	1928660505	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	19I30-F03	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	20001922001	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	20003016002	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	20003429001	7
Caesar & Loretz GmbH	Triglycerides, medium-chain	20003429004	14
Caesar & Loretz GmbH	Triglycerides, medium-chain	20003429006	12
Caesar & Loretz GmbH	Triglycerides, medium-chain	20003429008	10
Caesar & Loretz GmbH	Triglycerides, medium-chain	20003429009	4
Caesar & Loretz GmbH	Triglycerides, medium-chain	20003585001	1
Caesar & Loretz GmbH	Triglycerides, medium-chain	20003585002	16
Caesar & Loretz GmbH	Triglycerides, medium-chain	21003817002	4
Caesar & Loretz GmbH	Triglycerides, medium-chain	21003817003	9
Caesar & Loretz GmbHSan...	Triglycerides, medium-chain	19060005	1
Caesar & Loretz Hilden/...	Triglycerides, medium-chain	19060004	1
Caesar & Loretz/AHD	Triglycerides, medium-chain	19060010	1
Caesar & Loretz/AHD	Triglycerides, medium-chain	192866002	1
Caesar & Loretz/AHD	Triglycerides, medium-chain	20003429004	1
Caesar & Loretz/Noweda	Triglycerides, medium-chain	192866008	1
Caesar & Loretz	Triglycerides, medium-chain	16124307	1
Caesar & Loretz	Triglycerides, medium-chain	18118807	1
Caesar Loretz	Triglycerides, medium-chain	19055101	1
Caesar und Loretz GmbH	Triglycerides, medium-chain	17016007	1
Caesar und Loretz GmbH	Triglycerides, medium-chain	17361001	1
Caesar&Lorenz	Triglycerides, medium-chain	17016001	1
Caesar&Lorenz	Triglycerides, medium-chain	20003585002	1
Caesar&Loretz GmbH	Triglycerides, medium-chain	192866002	1
Caesar&loretz,Phoenix	Triglycerides, medium-chain	13177102	1
Caesar&loretz,Phoenix	Triglycerides, medium-chain	14219003	1
Caesar/Alliance	Triglycerides, medium-chain	14219007	1
Caesar/Noweda	Triglycerides, medium-chain	11301104	1
Caesar/Noweda	Triglycerides, medium-chain	13177109	1
Caesar	Triglycerides, medium-chain	17016007	1
Caleo/Phönix	Triglycerides, medium-chain	14380803	1
candoro	Triglycerides, medium-chain	10000004	1
Cannamedical / Phönix	Triglycerides, medium-chain	CKI90MGANG	1
Cannamedical	Triglycerides, medium-chain	CKI90MGANG	1
Caolo- Phönix	Triglycerides, medium-chain	14098306	1
Caolo/NOWEDA	Triglycerides, medium-chain	18118802	1
Cealo/Kehr	Triglycerides, medium-chain	20000699001	1
Cealo	Triglycerides, medium-chain	16124307	1
Ceasar & Loretz GmbH / ...	Triglycerides, medium-chain	18238901	1
celo/phönix	Triglycerides, medium-chain	13095306	1
Cremer Oleo GmbH & Co K...	Triglycerides, medium-chain	15H03-B03-525120	1
Defektur	Triglycerides, medium-chain	1710910-b	1
Delta	Triglycerides, medium-chain	17361001	1
Dr. Wolff/Gehe	Triglycerides, medium-chain	1801034-02	1
Ebert 12.10.16	Triglycerides, medium-chain	15379611	1
Ebert	Triglycerides, medium-chain	13098601	1
eigen	Triglycerides, medium-chain	2819I-03960	1
eigen	Triglycerides, medium-chain	4619Q-03960	1
eigene Herstellung	Triglycerides, medium-chain	1712907-a	1
Ethics/Noweda	Triglycerides, medium-chain	128842	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ethics/Phönix	Triglycerides, medium-chain	2880050000304322	1
ethis	Triglycerides, medium-chain	156506	1
etol G-u.P.GmbH/ Anzag	Triglycerides, medium-chain	211125(001500)	1
EuRho / 11	Triglycerides, medium-chain	2007018-01	1
EuRho GEHE	Triglycerides, medium-chain	1902005-01	1
EuRho/ NOWEDA	Triglycerides, medium-chain	1902005-02	1
EuRho/ Phönix	Triglycerides, medium-chain	1606035-03	1
EuRho/AHD	Triglycerides, medium-chain	2011015-01	1
EuRho/Now	Triglycerides, medium-chain	1801034-01	1
Eurho/Phoenix	Triglycerides, medium-chain	13095303	2
EuRho/Phönix	Triglycerides, medium-chain	13020004-02	1
EuRho/Phönix	Triglycerides, medium-chain	1411009-01	2
EuRho/Phönix	Triglycerides, medium-chain	1411009-02	1
EuRho/Phönix	Triglycerides, medium-chain	1504029-02	1
EuRho/Sanacorp	Triglycerides, medium-chain	1812014-01	1
EuRho/Sanacorp	Triglycerides, medium-chain	1902005-02	1
EuRho/VDL	Triglycerides, medium-chain	1801034-02	1
EuRho	Triglycerides, medium-chain	1111037-01	1
Eurho	Triglycerides, medium-chain	1205015-01	1
EuRho	Triglycerides, medium-chain	1406016-01	1
EuRho	Triglycerides, medium-chain	1504029-01	1
EuRho	Triglycerides, medium-chain	1504029-02	1
EuRho	Triglycerides, medium-chain	1603041-02	2
EuRho	Triglycerides, medium-chain	160603501	1
EuRho	Triglycerides, medium-chain	1801034-01	3
EuRho	Triglycerides, medium-chain	1801034-02	1
EuRho	Triglycerides, medium-chain	1902005-02	1
EuRho	Triglycerides, medium-chain	2107028-01	1
EuRho	Triglycerides, medium-chain	4121201	1
Euro / AHD	Triglycerides, medium-chain	1902005-01	1
Euro OTC	Triglycerides, medium-chain		1
Euro OTC	Triglycerides, medium-chain	1007009-01	1
Euro OTC	Triglycerides, medium-chain	108502001	1
Euro OTC	Triglycerides, medium-chain	1105005-01	2
Euro OTC	Triglycerides, medium-chain	1111037-01	1
Euro OTC	Triglycerides, medium-chain	1144252	3
Euro OTC	Triglycerides, medium-chain	1147194	1
Euro OTC	Triglycerides, medium-chain	116688	1
Euro OTC	Triglycerides, medium-chain	1205015-01	3
Euro OTC	Triglycerides, medium-chain	1210002-01	5
Euro OTC	Triglycerides, medium-chain	127733	6
Euro OTC	Triglycerides, medium-chain	130200401	1
Euro OTC	Triglycerides, medium-chain	1302004-01	13
Euro OTC	Triglycerides, medium-chain	1302004-02	8
Euro OTC	Triglycerides, medium-chain	1309025-01	2
Euro OTC	Triglycerides, medium-chain	1402019-01	2
Euro OTC	Triglycerides, medium-chain	1406016-01	5
Euro OTC	Triglycerides, medium-chain	1411009-002	1
Euro OTC	Triglycerides, medium-chain	141100901	1
Euro OTC	Triglycerides, medium-chain	1411009-01	8
Euro OTC	Triglycerides, medium-chain	141100902	1
Euro OTC	Triglycerides, medium-chain	1411009-02	6
Euro OTC	Triglycerides, medium-chain	145765	1
Euro OTC	Triglycerides, medium-chain	15040129-02	1
Euro OTC	Triglycerides, medium-chain	150402901	1
Euro OTC	Triglycerides, medium-chain	1504029-01	10
Euro OTC	Triglycerides, medium-chain	1504029-02	13
Euro OTC	Triglycerides, medium-chain	150902201	1
Euro OTC	Triglycerides, medium-chain	1509022-01	4
Euro OTC	Triglycerides, medium-chain	1509022-01G	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Triglycerides, medium-chain	151101101	1
Euro OTC	Triglycerides, medium-chain	1511011-01	19
Euro OTC	Triglycerides, medium-chain	1511011-1	1
Euro OTC	Triglycerides, medium-chain	15379610	1
Euro OTC	Triglycerides, medium-chain	15379612	1
Euro OTC	Triglycerides, medium-chain	1600105001	1
Euro OTC	Triglycerides, medium-chain	160105	1
Euro OTC	Triglycerides, medium-chain	160105001	2
Euro OTC	Triglycerides, medium-chain	1601050-01	50
Euro OTC	Triglycerides, medium-chain	160150-01	1
Euro OTC	Triglycerides, medium-chain	16030410	1
Euro OTC	Triglycerides, medium-chain	1603041-01	6
Euro OTC	Triglycerides, medium-chain	160304102	4
Euro OTC	Triglycerides, medium-chain	1603041-02	30
Euro OTC	Triglycerides, medium-chain	160427	1
Euro OTC	Triglycerides, medium-chain	1606035-01	34
Euro OTC	Triglycerides, medium-chain	160603502	1
Euro OTC	Triglycerides, medium-chain	1606035-02	26
Euro OTC	Triglycerides, medium-chain	1606035-03	12
Euro OTC	Triglycerides, medium-chain	160635-01	1
Euro OTC	Triglycerides, medium-chain	1701023-01	8
Euro OTC	Triglycerides, medium-chain	17016002	1
Euro OTC	Triglycerides, medium-chain	170901401	1
Euro OTC	Triglycerides, medium-chain	1709014-01	35
Euro OTC	Triglycerides, medium-chain	1709014-01-20180404M	1
Euro OTC	Triglycerides, medium-chain	170901402	3
Euro OTC	Triglycerides, medium-chain	1709014-02	25
Euro OTC	Triglycerides, medium-chain	180103401	2
Euro OTC	Triglycerides, medium-chain	1801034-01	61
Euro OTC	Triglycerides, medium-chain	180103402	2
Euro OTC	Triglycerides, medium-chain	1801034-02	30
Euro OTC	Triglycerides, medium-chain	180502001	5
Euro OTC	Triglycerides, medium-chain	1805020-01	44
Euro OTC	Triglycerides, medium-chain	18118801	1
Euro OTC	Triglycerides, medium-chain	18118807	2
Euro OTC	Triglycerides, medium-chain	1812012-1	1
Euro OTC	Triglycerides, medium-chain	1812014_01	2
Euro OTC	Triglycerides, medium-chain	181201401	1
Euro OTC	Triglycerides, medium-chain	1812014-01	66
Euro OTC	Triglycerides, medium-chain	1812014-1	1
Euro OTC	Triglycerides, medium-chain	19020005-02	1
Euro OTC	Triglycerides, medium-chain	1902005_02	1
Euro OTC	Triglycerides, medium-chain	1902005-01	42
Euro OTC	Triglycerides, medium-chain	190200502	2
Euro OTC	Triglycerides, medium-chain	1902005-02	60
Euro OTC	Triglycerides, medium-chain	1902005-2005031-01	1
Euro OTC	Triglycerides, medium-chain	1902005-42	1
Euro OTC	Triglycerides, medium-chain	200200101	1
Euro OTC	Triglycerides, medium-chain	2002001-01	21
Euro OTC	Triglycerides, medium-chain	2005031	1
Euro OTC	Triglycerides, medium-chain	2005031-01	46
Euro OTC	Triglycerides, medium-chain	2007018	1
Euro OTC	Triglycerides, medium-chain	200701801	2
Euro OTC	Triglycerides, medium-chain	2007018-01	34
Euro OTC	Triglycerides, medium-chain	2011015-01	35
Euro OTC	Triglycerides, medium-chain	2107028-01	5
Euro OTC	Triglycerides, medium-chain	2201033-01	1
Euro OTC	Triglycerides, medium-chain	221033-01	1
Euro OTC	Triglycerides, medium-chain	2614A-01998	1
Euro OTC	Triglycerides, medium-chain	41141312	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Triglycerides, medium-chain	58448	2
Euro OTC	Triglycerides, medium-chain	61140578	2
Euro OTC	Triglycerides, medium-chain	67940	2
Euro OTC	Triglycerides, medium-chain	700282	2
Euro OTC	Triglycerides, medium-chain	71142383	1
Euro OTC	Triglycerides, medium-chain	71143373	4
Euro OTC	Triglycerides, medium-chain	71161892	1
Euro OTC	Triglycerides, medium-chain	71161992	6
Euro OTC	Triglycerides, medium-chain	8003093001	1
Euro OTC	Triglycerides, medium-chain	81146263	6
Euro OTC	Triglycerides, medium-chain	81147353	9
Euro OTC	Triglycerides, medium-chain	91144781	3
Euro OTC	Triglycerides, medium-chain	GT-8009020616	1
Euro/ Phönix	Triglycerides, medium-chain	1117Q-01998	1
Euro/Phönix	Triglycerides, medium-chain	1805020-01	1
Euro/Phönix	Triglycerides, medium-chain	1902005-01	2
Euro/Phönix	Triglycerides, medium-chain	81146263	1
euro	Triglycerides, medium-chain	1812014	1
Fa. Bionorica/ Fa. Krie...	Triglycerides, medium-chain	132615	1
Fagron	Triglycerides, medium-chain		3
Fagron	Triglycerides, medium-chain	105040	1
Fagron	Triglycerides, medium-chain	107076	1
Fagron	Triglycerides, medium-chain	109948	1
Fagron	Triglycerides, medium-chain	10K09-0031	1
Fagron	Triglycerides, medium-chain	110321	1
Fagron	Triglycerides, medium-chain	116638	1
Fagron	Triglycerides, medium-chain	116646	1
Fagron	Triglycerides, medium-chain	11G28-N07	1
Fagron	Triglycerides, medium-chain	11L19-N20	1
Fagron	Triglycerides, medium-chain	12/04-N07	1
Fagron	Triglycerides, medium-chain	120604	2
Fagron	Triglycerides, medium-chain	1210002-01	3
Fagron	Triglycerides, medium-chain	12A20-N16	1
Fagron	Triglycerides, medium-chain	12C27-N02	1
Fagron	Triglycerides, medium-chain	12I04-N07	8
Fagron	Triglycerides, medium-chain	12K07-N22	5
Fagron	Triglycerides, medium-chain	12l04-N07	1
Fagron	Triglycerides, medium-chain	130502	1
Fagron	Triglycerides, medium-chain	13E24-N04	14
Fagron	Triglycerides, medium-chain	13H02N03	1
Fagron	Triglycerides, medium-chain	13H02-N03	1
Fagron	Triglycerides, medium-chain	13J21-N06	1
Fagron	Triglycerides, medium-chain	13j25-b11	1
Fagron	Triglycerides, medium-chain	140514	1
Fagron	Triglycerides, medium-chain	14D08-N01	1
Fagron	Triglycerides, medium-chain	14D11-N01	1
Fagron	Triglycerides, medium-chain	14G25B03	1
Fagron	Triglycerides, medium-chain	14G25-B03	4
Fagron	Triglycerides, medium-chain	14G25-B03-296937	6
Fagron	Triglycerides, medium-chain	14G25-B03-302294	14
Fagron	Triglycerides, medium-chain	14G25-B03-305014	1
Fagron	Triglycerides, medium-chain	14K28-N01	4
Fagron	Triglycerides, medium-chain	150518	5
Fagron	Triglycerides, medium-chain	15403-B03-318529	1
Fagron	Triglycerides, medium-chain	15D24-B03-307759	2
Fagron	Triglycerides, medium-chain	15D24B03525046	1
Fagron	Triglycerides, medium-chain	15D24-B03-525046	3
Fagron	Triglycerides, medium-chain	15H03-318529	1
Fagron	Triglycerides, medium-chain	15H03-B03	5
Fagron	Triglycerides, medium-chain	15H03-B03_318529	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Triglycerides, medium-chain	15H03B03312315	1
Fagron	Triglycerides, medium-chain	15H03B03-312351	1
Fagron	Triglycerides, medium-chain	15H03-B03-312351	12
Fagron	Triglycerides, medium-chain	15H03-B03-312924	5
Fagron	Triglycerides, medium-chain	15H03-B03-318529	11
Fagron	Triglycerides, medium-chain	15H03-B03-318530	3
Fagron	Triglycerides, medium-chain	15H03-B03322735	1
Fagron	Triglycerides, medium-chain	15H03-B03-322735	5
Fagron	Triglycerides, medium-chain	15H03-B03-325574	2
Fagron	Triglycerides, medium-chain	15H03-B03-328583	3
Fagron	Triglycerides, medium-chain	15H03-B03-525120	8
Fagron	Triglycerides, medium-chain	15H03-B03-525189	2
Fagron	Triglycerides, medium-chain	15H03-B03-525225	2
Fagron	Triglycerides, medium-chain	15H03-B03-525271	7
Fagron	Triglycerides, medium-chain	15H03-B03-525331	5
Fagron	Triglycerides, medium-chain	15H03-B03-525383	1
Fagron	Triglycerides, medium-chain	15H03-Bo3-311235	1
Fagron	Triglycerides, medium-chain	15H03-Bo3-318529	1
Fagron	Triglycerides, medium-chain	160427	2
Fagron	Triglycerides, medium-chain	1606035-01	1
Fagron	Triglycerides, medium-chain	161123	4
Fagron	Triglycerides, medium-chain	16124308	1
Fagron	Triglycerides, medium-chain	16H18-B01	8
Fagron	Triglycerides, medium-chain	16H18-B01_525477	1
Fagron	Triglycerides, medium-chain	16h18-b01-331028	1
Fagron	Triglycerides, medium-chain	16H18-B01-331028	8
Fagron	Triglycerides, medium-chain	16H18-B01-331028/1	1
Fagron	Triglycerides, medium-chain	16H18-B01-52477	1
Fagron	Triglycerides, medium-chain	16H18-B01-525420	9
Fagron	Triglycerides, medium-chain	16H-18-B01-525420	1
Fagron	Triglycerides, medium-chain	16H18-B01-525477	3
Fagron	Triglycerides, medium-chain	16H18-B01-525506	12
Fagron	Triglycerides, medium-chain	16H18-B01-525526	1
Fagron	Triglycerides, medium-chain	16h18-b01-525531	1
Fagron	Triglycerides, medium-chain	16H18-B01-525531	3
Fagron	Triglycerides, medium-chain	170517	10
Fagron	Triglycerides, medium-chain	171209	7
Fagron	Triglycerides, medium-chain	17236203	3
Fagron	Triglycerides, medium-chain	17361001	2
Fagron	Triglycerides, medium-chain	17F16-802	2
Fagron	Triglycerides, medium-chain	17F16-B02	8
Fagron	Triglycerides, medium-chain	17F16-B02_525622	1
Fagron	Triglycerides, medium-chain	17f16-b02-340113	1
Fagron	Triglycerides, medium-chain	17F16-B02-340113	7
Fagron	Triglycerides, medium-chain	17F16B02-341874	1
Fagron	Triglycerides, medium-chain	17F16-B02-341874	6
Fagron	Triglycerides, medium-chain	17F16-B02-525621	6
Fagron	Triglycerides, medium-chain	17f16-b02-525622	1
Fagron	Triglycerides, medium-chain	17F16-B02-525622	19
Fagron	Triglycerides, medium-chain	17F16-B02-525657	5
Fagron	Triglycerides, medium-chain	17F16-B02-525662	1
Fagron	Triglycerides, medium-chain	17-F16-BO2-341874	1
Fagron	Triglycerides, medium-chain	17H16-B02-525657	1
Fagron	Triglycerides, medium-chain	1801034-01	1
Fagron	Triglycerides, medium-chain	1805020-01	1
Fagron	Triglycerides, medium-chain	180607	3
Fagron	Triglycerides, medium-chain	181026/1003	1
Fagron	Triglycerides, medium-chain	18118801	2
Fagron	Triglycerides, medium-chain	18118807	1
Fagron	Triglycerides, medium-chain	181201401	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Triglycerides, medium-chain	181217	2
Fagron	Triglycerides, medium-chain	18239003	1
Fagron	Triglycerides, medium-chain	18A19/B04/348506	1
Fagron	Triglycerides, medium-chain	18A19-04-348506	1
Fagron	Triglycerides, medium-chain	18A19-B014-525725	2
Fagron	Triglycerides, medium-chain	18A19-B04	25
Fagron	Triglycerides, medium-chain	18A19-B04-345025	5
Fagron	Triglycerides, medium-chain	18A19-B04-348506	3
Fagron	Triglycerides, medium-chain	18A19-B04-348507	1
Fagron	Triglycerides, medium-chain	18A19B04350476	1
Fagron	Triglycerides, medium-chain	18A19-B04-350476	6
Fagron	Triglycerides, medium-chain	18A19-B04-525704	2
Fagron	Triglycerides, medium-chain	18A19-B04-525705	13
Fagron	Triglycerides, medium-chain	18A19-B04-525713	11
Fagron	Triglycerides, medium-chain	18A19B04525725	1
Fagron	Triglycerides, medium-chain	18A19-B04525725	1
Fagron	Triglycerides, medium-chain	18A19-B04-525725	15
Fagron	Triglycerides, medium-chain	18a19-b04-525726	1
Fagron	Triglycerides, medium-chain	18A19-B04-525726	17
Fagron	Triglycerides, medium-chain	18A19-B04-525800	3
Fagron	Triglycerides, medium-chain	18A19-B04-525821	4
Fagron	Triglycerides, medium-chain	18a19-bo4-350476	1
Fagron	Triglycerides, medium-chain	18G13	1
Fagron	Triglycerides, medium-chain	18G13-801-526004	2
Fagron	Triglycerides, medium-chain	18G13B01	1
Fagron	Triglycerides, medium-chain	18G13-B01	14
Fagron	Triglycerides, medium-chain	18G13-B01_525948	1
Fagron	Triglycerides, medium-chain	18G13-B01-0031	1
Fagron	Triglycerides, medium-chain	18G13-B01-352212	4
Fagron	Triglycerides, medium-chain	18G13-B01-353059	8
Fagron	Triglycerides, medium-chain	18G13-B01-353926	1
Fagron	Triglycerides, medium-chain	18g13-b01-355309	1
Fagron	Triglycerides, medium-chain	18G13-B01-355309	10
Fagron	Triglycerides, medium-chain	18G13B01357639	1
Fagron	Triglycerides, medium-chain	18G13-B01-357639	4
Fagron	Triglycerides, medium-chain	18G13-B01-363706	1
Fagron	Triglycerides, medium-chain	18G13-B01-525781	1
Fagron	Triglycerides, medium-chain	18G13B01525837	1
Fagron	Triglycerides, medium-chain	18G13-B01-525837	7
Fagron	Triglycerides, medium-chain	18G13-B01-525871	6
Fagron	Triglycerides, medium-chain	18G13-B01-525912	1
Fagron	Triglycerides, medium-chain	18G13-B01-525948	3
Fagron	Triglycerides, medium-chain	18g13-b01-525975	1
Fagron	Triglycerides, medium-chain	18G13-B01-525975	4
Fagron	Triglycerides, medium-chain	18G13-B01-526004	10
Fagron	Triglycerides, medium-chain	18G13-B01-526039	4
Fagron	Triglycerides, medium-chain	18G13-B01-526063	9
Fagron	Triglycerides, medium-chain	18G13-B01-526102	6
Fagron	Triglycerides, medium-chain	18G13-B01-52871	1
Fagron	Triglycerides, medium-chain	18G-B01-525975	1
Fagron	Triglycerides, medium-chain	19/30-F03-526160	1
Fagron	Triglycerides, medium-chain	19/30-F03-526162	1
Fagron	Triglycerides, medium-chain	19/30-F03-526163	2
Fagron	Triglycerides, medium-chain	1902005-02	1
Fagron	Triglycerides, medium-chain	190902	1
Fagron	Triglycerides, medium-chain	190I30-F03-526162	1
Fagron	Triglycerides, medium-chain	191015	2
Fagron	Triglycerides, medium-chain	19130-F03-526162	1
Fagron	Triglycerides, medium-chain	19130-F03-526162	1
Fagron	Triglycerides, medium-chain	1930-f03	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Triglycerides, medium-chain	1930-F03-365619	1
Fagron	Triglycerides, medium-chain	1930-F03-526162	1
Fagron	Triglycerides, medium-chain	19I30-F03	8
Fagron	Triglycerides, medium-chain	19I30-F03-365618	1
Fagron	Triglycerides, medium-chain	19I30F03365619	1
Fagron	Triglycerides, medium-chain	19I30-F03-365619	4
Fagron	Triglycerides, medium-chain	19I30-F03-526160	2
Fagron	Triglycerides, medium-chain	19I30-F03-526161	2
Fagron	Triglycerides, medium-chain	19I30F03526162	1
Fagron	Triglycerides, medium-chain	19I30-F03-526162	4
Fagron	Triglycerides, medium-chain	19I30F03526163	1
Fagron	Triglycerides, medium-chain	19I30-F03-526163	2
Fagron	Triglycerides, medium-chain	19i30-F03-526163	1
Fagron	Triglycerides, medium-chain	19J10-F12	4
Fagron	Triglycerides, medium-chain	19J10-F12-36618	1
Fagron	Triglycerides, medium-chain	19j10-F12-366180	1
Fagron	Triglycerides, medium-chain	19J10-F12-366180	12
Fagron	Triglycerides, medium-chain	19J10-F12-526198	2
Fagron	Triglycerides, medium-chain	19l30-F03-526160	1
Fagron	Triglycerides, medium-chain	20003429004	1
Fagron	Triglycerides, medium-chain	2002001-01	1
Fagron	Triglycerides, medium-chain	20A29/F17-526272	1
Fagron	Triglycerides, medium-chain	20a29-f16	1
Fagron	Triglycerides, medium-chain	20A29-F16	6
Fagron	Triglycerides, medium-chain	20A29-F16_375098	1
Fagron	Triglycerides, medium-chain	20A29-F16-369728	2
Fagron	Triglycerides, medium-chain	20A29-F16-375097	5
Fagron	Triglycerides, medium-chain	20A29-F16-375098	6
Fagron	Triglycerides, medium-chain	20A29-F16-526345	5
Fagron	Triglycerides, medium-chain	20A29-F16-526370	2
Fagron	Triglycerides, medium-chain	20A29-F17	12
Fagron	Triglycerides, medium-chain	20A29F17368743	1
Fagron	Triglycerides, medium-chain	20A29-F17-368743	8
Fagron	Triglycerides, medium-chain	20A29-F17-369504	2
Fagron	Triglycerides, medium-chain	20A29-F17-526272	17
Fagron	Triglycerides, medium-chain	20J19-F04	1
Fagron	Triglycerides, medium-chain	20J20-F01	3
Fagron	Triglycerides, medium-chain	20J20-F01-375099	1
Fagron	Triglycerides, medium-chain	20J20-F01-526424	1
Fagron	Triglycerides, medium-chain	20J20-F01-526457	1
Fagron	Triglycerides, medium-chain	20J20F01526491	1
Fagron	Triglycerides, medium-chain	20J20-F01526491	1
Fagron	Triglycerides, medium-chain	20J20-F01-526491	2
Fagron	Triglycerides, medium-chain	20J20-F01-526492	2
Fagron	Triglycerides, medium-chain	21c08-F03-379291	1
Fagron	Triglycerides, medium-chain	27101710	1
Fagron	Triglycerides, medium-chain	525837	1
Fagron	Triglycerides, medium-chain	F12_3661800	1
Fagron	Triglycerides, medium-chain	IoIOleoGmbH160427	1
Fargon /Phönix	Triglycerides, medium-chain	17F16-B02340113	1
Fargon/Phönix	Triglycerides, medium-chain	150518	1
Fargon/Sanacorp	Triglycerides, medium-chain	11L19-N20	1
Fargon	Triglycerides, medium-chain	150518	1
Fargon	Triglycerides, medium-chain	16H18-B01-525420	1
Fargon	Triglycerides, medium-chain	18G13-B01-526004	1
Fargon	Triglycerides, medium-chain	20A29-F16-375097	1
Fargon	Triglycerides, medium-chain	20J20-F01-526492	1
Fargon	Triglycerides, medium-chain	20J20-F01-526571	1
Fiebig/ THC Pharma	Triglycerides, medium-chain	105043	1
Fiebig	Triglycerides, medium-chain	11207502	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fiebig	Triglycerides, medium-chain	15272006	1
Fiebig	Triglycerides, medium-chain	15379610	1
Fiebig	Triglycerides, medium-chain	15H003-B03-525383	1
Fiebig	Triglycerides, medium-chain	16124308	3
Fiebig	Triglycerides, medium-chain	16124310	1
Fiebig	Triglycerides, medium-chain	17016002	1
Fiebig	Triglycerides, medium-chain	17016007	1
Fiebig	Triglycerides, medium-chain	17016008	1
Fiebig	Triglycerides, medium-chain	17236203	4
Fiebig	Triglycerides, medium-chain	17361001	1
Fiebig	Triglycerides, medium-chain	18118807	1
Fiebig	Triglycerides, medium-chain	18118808	1
Fiebig	Triglycerides, medium-chain	18238902	7
Fiebig	Triglycerides, medium-chain	18239004	2
Fiebig	Triglycerides, medium-chain	190923	1
Fischar/Phoenix	Triglycerides, medium-chain	105044	1
Fragon/Phönix	Triglycerides, medium-chain	18G13-B01-526063	1
fragron	Triglycerides, medium-chain	17F16-B02-525622	1
Gatt-Koller	Triglycerides, medium-chain	1802502	2
Gatt-Koller	Triglycerides, medium-chain	1803423	1
Gehe 07.12.18	Triglycerides, medium-chain	123015	1
GEHE, 02.01.2019	Triglycerides, medium-chain	1805020-01	1
Gehe/Bionorica Ethics	Triglycerides, medium-chain	116641	1
Gehe/Bionorica Ethics	Triglycerides, medium-chain	125596	1
Gehe/Bionorica	Triglycerides, medium-chain	116641	1
Gehe/EuRo	Triglycerides, medium-chain	1603041-02	2
Gehe/L10	Triglycerides, medium-chain	1801034-02	1
Gehe/L10	Triglycerides, medium-chain	1812014-01	1
GEHE	Triglycerides, medium-chain	105039	1
GEHE	Triglycerides, medium-chain	107077	2
GEHE	Triglycerides, medium-chain	107078	1
Gehe	Triglycerides, medium-chain	109949	1
GEHE	Triglycerides, medium-chain	109949	1
Gehe	Triglycerides, medium-chain	109951	1
Gehe	Triglycerides, medium-chain	116644	1
GEHE	Triglycerides, medium-chain	116687	1
Gehe	Triglycerides, medium-chain	117111	1
Gehe	Triglycerides, medium-chain	117113	1
Gehe	Triglycerides, medium-chain	12078603	1
Gehe	Triglycerides, medium-chain	12356908	1
Gehe	Triglycerides, medium-chain	1302004-01	1
Gehe	Triglycerides, medium-chain	1309025-01	1
Gehe	Triglycerides, medium-chain	13177102	3
Gehe	Triglycerides, medium-chain	141602	1
Gehe	Triglycerides, medium-chain	145768	1
Gehe	Triglycerides, medium-chain	14D23-B02-293330	1
Gehe	Triglycerides, medium-chain	1504029-01	1
Gehe	Triglycerides, medium-chain	15139607	1
Gehe	Triglycerides, medium-chain	15272004	2
Gehe	Triglycerides, medium-chain	15272006	1
Gehe	Triglycerides, medium-chain	153218	2
Gehe	Triglycerides, medium-chain	15379608	1
Gehe	Triglycerides, medium-chain	15379610	1
Gehe	Triglycerides, medium-chain	15379612	1
Gehe	Triglycerides, medium-chain	1539608	1
Gehe	Triglycerides, medium-chain	1572004	1
Gehe	Triglycerides, medium-chain	15H03-B03-312351	1
Gehe	Triglycerides, medium-chain	1601050-0	1
Gehe	Triglycerides, medium-chain	1601050-01	1
GEHE	Triglycerides, medium-chain	1603041-01	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Triglycerides, medium-chain	1603041-02	1
GEHE	Triglycerides, medium-chain	1603041-02	1
Gehe	Triglycerides, medium-chain	160427	2
GEHE	Triglycerides, medium-chain	1606035-03	1
Gehe	Triglycerides, medium-chain	16124307	3
Gehe	Triglycerides, medium-chain	16124310	1
Gehe	Triglycerides, medium-chain	16H18-B01-525477	1
Gehe	Triglycerides, medium-chain	1701023-01	1
Gehe	Triglycerides, medium-chain	17016001	4
GEHE	Triglycerides, medium-chain	17016001	1
Gehe	Triglycerides, medium-chain	17016008	1
Gehe	Triglycerides, medium-chain	1709014-01	1
Gehe	Triglycerides, medium-chain	17361002	1
Gehe	Triglycerides, medium-chain	17F1-B02-340113	1
Gehe	Triglycerides, medium-chain	1801034-01	2
GEHE	Triglycerides, medium-chain	1801034-01	2
Gehe	Triglycerides, medium-chain	1801034-02	1
Gehe	Triglycerides, medium-chain	1805020-01	3
GEHE	Triglycerides, medium-chain	1805020-01	1
Gehe	Triglycerides, medium-chain	1812014-01	1
GEHE	Triglycerides, medium-chain	1812014-01	2
Gehe	Triglycerides, medium-chain	18238902	2
Gehe	Triglycerides, medium-chain	18A19-B04-345025	1
Gehe	Triglycerides, medium-chain	18A19-B04-348506	1
Gehe	Triglycerides, medium-chain	18A19-B04525705	1
Gehe	Triglycerides, medium-chain	18G13-B01-353059	1
GEHE	Triglycerides, medium-chain	1902005-001	1
Gehe	Triglycerides, medium-chain	1902005-01	2
Gehe	Triglycerides, medium-chain	19060005	1
Gehe	Triglycerides, medium-chain	19060011	1
Gehe	Triglycerides, medium-chain	192866001	1
Gehe	Triglycerides, medium-chain	192866003	1
Gehe	Triglycerides, medium-chain	192866009	1
Gehe	Triglycerides, medium-chain	20003429008	1
Gehe	Triglycerides, medium-chain	20003429009	1
Gehe	Triglycerides, medium-chain	2002001-01	1
Gehe	Triglycerides, medium-chain	2005031-01	1
Gehe	Triglycerides, medium-chain	21003817003	1
Gehe	Triglycerides, medium-chain	22001997001	1
Gehe	Triglycerides, medium-chain	2201033-01	1
GEHE	Triglycerides, medium-chain	71161992	1
GEHE	Triglycerides, medium-chain	95080	1
GEHE	Triglycerides, medium-chain	98569	1
gehe-06.11.18	Triglycerides, medium-chain	12016	1
Gehe-Eurho 10.09.18	Triglycerides, medium-chain	71143373	1
GUMO	Triglycerides, medium-chain	20003429004	1
Hansen & Rosenthal/Noweda	Triglycerides, medium-chain	1509022-01	1
Hansen&Rosenthal/Phönix	Triglycerides, medium-chain	1406016-01	1
HCT Pharma	Triglycerides, medium-chain	2012100833	1
Hedinger	Triglycerides, medium-chain	1606035-02	2
Hedinger	Triglycerides, medium-chain	17361001	1
Henry Lamotte GmbH/ San...	Triglycerides, medium-chain	16124307	1
Henry Lamotte Oils GmbH...	Triglycerides, medium-chain	15379602	1
Henry Lamotte	Triglycerides, medium-chain	1302004-01	1
Henry lamotte	Triglycerides, medium-chain	18G13-B01-357639	2
Hersteller	Triglycerides, medium-chain	135058	1
hochhaus-Apotheke	Triglycerides, medium-chain	1606035-01	1
Hubertus Apotheke	Triglycerides, medium-chain	15379610	1
Ichthyol/Phönix	Triglycerides, medium-chain	1603041-02	2
IOI Oleo GmbH / Canname...	Triglycerides, medium-chain	CKI90MGANG	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
IOI Oleo GmbH	Triglycerides, medium-chain	181217	1
IOI Oleo/AHD	Triglycerides, medium-chain	18G13-B01-355309	1
Jenne / Bionorica	Triglycerides, medium-chain	139105	3
Jenne	Triglycerides, medium-chain	107081	1
Jenne	Triglycerides, medium-chain	116646	1
Jenne	Triglycerides, medium-chain	18A19-B04	4
k.A.	Triglycerides, medium-chain	120016	1
Kehr/THC Pharma	Triglycerides, medium-chain	105040	2
Kehr/THC Pharma	Triglycerides, medium-chain	105041	1
Kehr/THC Pharma	Triglycerides, medium-chain	116644	2
Kehr/THC Pharma	Triglycerides, medium-chain	116690	1
Kehr/THC Pharma	Triglycerides, medium-chain	116691	1
Kehr/THC Pharma	Triglycerides, medium-chain	VT231118-1	1
Kehr	Triglycerides, medium-chain	109949	1
Kehr	Triglycerides, medium-chain	109953	1
Kehr	Triglycerides, medium-chain	116586	1
Kehr	Triglycerides, medium-chain	116639	1
Kehr	Triglycerides, medium-chain	11664	1
Kehr	Triglycerides, medium-chain	1801034-01	1
Kehr	Triglycerides, medium-chain	98570	1
Kögl	Triglycerides, medium-chain	1700780	4
Kögl	Triglycerides, medium-chain	188006163816	1
Kögl	Triglycerides, medium-chain	19102170817	1
Kögl	Triglycerides, medium-chain	19102171217	1
Kögl	Triglycerides, medium-chain	391711160417	1
Krieger Bionorica ethics	Triglycerides, medium-chain	132615	1
Krieger Bionorica ethics	Triglycerides, medium-chain	141604	1
Krieger/Bionorica	Triglycerides, medium-chain	139107	1
Krieger	Triglycerides, medium-chain	142331	1
Krieger	Triglycerides, medium-chain	17361002	1
Krieger	Triglycerides, medium-chain	3081	1
L12	Triglycerides, medium-chain	18G13-B01-352212	2
L30	Triglycerides, medium-chain	15H03-b03-318530	1
L31	Triglycerides, medium-chain	18A19-B04-345026	1
Laborchemie Apolda/ Now...	Triglycerides, medium-chain	18118807	1
Midas Phönix	Triglycerides, medium-chain	17016007	2
Miglyol 812	Triglycerides, medium-chain	20003429004	1
Miglyol	Triglycerides, medium-chain	15139605	1
nachtragen	Triglycerides, medium-chain	125596	2
nachtragen	Triglycerides, medium-chain	127733	2
Noveda	Triglycerides, medium-chain	12256505	1
Noveda	Triglycerides, medium-chain	19060010	1
noveda	Triglycerides, medium-chain	269421	1
Noweda / Euro	Triglycerides, medium-chain	1902005-02	1
Noweda / Euro	Triglycerides, medium-chain	2007018-01	1
Noweda /THC Pharma	Triglycerides, medium-chain	109709	1
Noweda Bionorica	Triglycerides, medium-chain	145767	1
Noweda Taucha	Triglycerides, medium-chain	129876	1
Noweda Taucha	Triglycerides, medium-chain	153220	4
Noweda Taucha	Triglycerides, medium-chain	160041	2
Noweda/Bionorica ethics	Triglycerides, medium-chain	120015	1
Noweda/Bionorica	Triglycerides, medium-chain	103901	1
Noweda/Bionorica	Triglycerides, medium-chain	123013	1
Noweda/THC Pharma	Triglycerides, medium-chain	105041	2
Noweda/THC Pharma	Triglycerides, medium-chain	105044	1
Noweda/THC Pharma	Triglycerides, medium-chain	109948	1
Noweda/THC Pharma	Triglycerides, medium-chain	116690	2
Noweda/THC Pharma	Triglycerides, medium-chain	129877	4
Noweda	Triglycerides, medium-chain	101001	1
Noweda	Triglycerides, medium-chain	11207501	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Triglycerides, medium-chain	11301109	2
Noweda	Triglycerides, medium-chain	1144252	1
Noweda	Triglycerides, medium-chain	116644	3
Noweda	Triglycerides, medium-chain	129877	1
Noweda	Triglycerides, medium-chain	14219007	1
Noweda	Triglycerides, medium-chain	14602	1
Noweda	Triglycerides, medium-chain	15139608	1
Noweda	Triglycerides, medium-chain	1701023-01	2
Noweda	Triglycerides, medium-chain	17016001	1
Noweda	Triglycerides, medium-chain	17236202	2
Noweda	Triglycerides, medium-chain	17361001	1
Noweda	Triglycerides, medium-chain	1801034-01	3
Noweda	Triglycerides, medium-chain	1805020-01	2
Noweda	Triglycerides, medium-chain	18118801	1
Noweda	Triglycerides, medium-chain	1812014-01	4
Noweda	Triglycerides, medium-chain	181217	1
Noweda	Triglycerides, medium-chain	18238901	1
Noweda	Triglycerides, medium-chain	18239003	3
Noweda	Triglycerides, medium-chain	18239004	1
Noweda	Triglycerides, medium-chain	18A19-B04-525800	1
Noweda	Triglycerides, medium-chain	18G13-B01-525948	1
Noweda	Triglycerides, medium-chain	18G13-B01-525975	2
Noweda	Triglycerides, medium-chain	1902005-01	2
Noweda	Triglycerides, medium-chain	1902005-02	2
Noweda	Triglycerides, medium-chain	19060004	1
Noweda	Triglycerides, medium-chain	192866002	1
Noweda	Triglycerides, medium-chain	192866005	1
Noweda	Triglycerides, medium-chain	192866008	2
Noweda	Triglycerides, medium-chain	19I30-F03	1
Noweda	Triglycerides, medium-chain	20003585005002	1
Noweda	Triglycerides, medium-chain	2002001-01	1
Noweda	Triglycerides, medium-chain	2005031-01	1
Noweda	Triglycerides, medium-chain	2007018-01	2
Noweda	Triglycerides, medium-chain	21003847003	1
Noweda	Triglycerides, medium-chain	220103301	1
Noweda	Triglycerides, medium-chain	4902005-02	1
Noweda	Triglycerides, medium-chain	81147353	1
Noweda_18.01.2020	Triglycerides, medium-chain	18G13-B01-526039	1
Oleo GmbH	Triglycerides, medium-chain	20J20-F01-526445	2
Phagron GmbH / Anzag	Triglycerides, medium-chain	12K07-N22	1
Pharimex	Triglycerides, medium-chain	75316	2
Pharmachem GmbH	Triglycerides, medium-chain	105041	1
Pharmachem/Phoenix	Triglycerides, medium-chain	18118801	3
Pharmachem	Triglycerides, medium-chain	109952	2
Pharmachem	Triglycerides, medium-chain	1606035-02	2
Pharmapol/Pharmapol	Triglycerides, medium-chain	245118	1
Pharmapol	Triglycerides, medium-chain	256401	1
Phoenix / Bionorica	Triglycerides, medium-chain	1457670	2
Phoenix Leipzig 05.09.2...	Triglycerides, medium-chain	105039	1
Phoenix Pharma	Triglycerides, medium-chain	129880	1
Phoenix/Bionorica ethics	Triglycerides, medium-chain	139105	1
Phoenix/Bionorica ethics	Triglycerides, medium-chain	145767	1
Phoenix/BionoricaEthics	Triglycerides, medium-chain	141604	1
Phoenix/euro	Triglycerides, medium-chain	1805020-01	1
Phoenix	Triglycerides, medium-chain	123998	1
Phoenix	Triglycerides, medium-chain	125596	1
Phoenix	Triglycerides, medium-chain	13098601	1
Phoenix	Triglycerides, medium-chain	14380803	2
Phoenix	Triglycerides, medium-chain	145768	2
Phoenix	Triglycerides, medium-chain	15139605	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Triglycerides, medium-chain	153219	2
Phoenix	Triglycerides, medium-chain	15H03-B03-525271	1
Phoenix	Triglycerides, medium-chain	1606035-03	1
Phoenix	Triglycerides, medium-chain	17016007	1
Phoenix	Triglycerides, medium-chain	1709014-02	1
Phoenix	Triglycerides, medium-chain	1812014-01	2
Phoenix	Triglycerides, medium-chain	18239003	1
Phoenix	Triglycerides, medium-chain	18A19-B04-525713	2
phoenix	Triglycerides, medium-chain	19060004	1
Phoenix	Triglycerides, medium-chain	19060004	1
Phoenix	Triglycerides, medium-chain	192866008	1
Phoenix	Triglycerides, medium-chain	20003429001	1
Phoenix	Triglycerides, medium-chain	20003585002	1
Phoenix	Triglycerides, medium-chain	200112001	1
Phoenix	Triglycerides, medium-chain	3052	1
Phoenix	Triglycerides, medium-chain	3390	1
Phönix 29.10.12	Triglycerides, medium-chain	12078604	1
Phönix Gotha	Triglycerides, medium-chain	1205015-01	2
Phönix Gotha	Triglycerides, medium-chain	1210002-01	2
Phönix Gotha	Triglycerides, medium-chain	1302004-01	3
Phönix Gotha	Triglycerides, medium-chain	1302004-02	1
Phönix Gotha	Triglycerides, medium-chain	1411009-01	2
Phönix Gotha	Triglycerides, medium-chain	1411009-02	1
Phönix Gotha	Triglycerides, medium-chain	1504029-01	2
Phönix Gotha	Triglycerides, medium-chain	1709014-01	1
Phönix Pharma Einkauf	Triglycerides, medium-chain	128843	2
Phönix Pharma Einkauf	Triglycerides, medium-chain	141603	6
Phönix Pharma Einkauf	Triglycerides, medium-chain	141604	3
Phönix Pharma Einkauf	Triglycerides, medium-chain	283811	2
Phönix/Bionorica	Triglycerides, medium-chain	105042	1
Phönix/Bionorica	Triglycerides, medium-chain	109949	2
Phönix/Bionorica	Triglycerides, medium-chain	109950	3
Phönix/Bionorica	Triglycerides, medium-chain	116646	1
Phönix	Triglycerides, medium-chain	11320508	1
Phönix	Triglycerides, medium-chain	116640	1
Phönix	Triglycerides, medium-chain	1210002-01	2
Phönix	Triglycerides, medium-chain	123015	2
Phönix	Triglycerides, medium-chain	12356901	1
Phönix	Triglycerides, medium-chain	123997	1
Phönix	Triglycerides, medium-chain	123999	2
Phönix	Triglycerides, medium-chain	125596	1
Phönix	Triglycerides, medium-chain	125597	1
Phönix	Triglycerides, medium-chain	127732	2
Phönix	Triglycerides, medium-chain	128841	2
Phönix	Triglycerides, medium-chain	128842	3
Phönix	Triglycerides, medium-chain	128843	4
Phönix	Triglycerides, medium-chain	129876	6
Phönix	Triglycerides, medium-chain	129880	1
Phönix	Triglycerides, medium-chain	1300204-01	1
Phönix	Triglycerides, medium-chain	13177102	1
Phönix	Triglycerides, medium-chain	131905	1
Phönix	Triglycerides, medium-chain	132615	1
Phönix	Triglycerides, medium-chain	135058	4
Phönix	Triglycerides, medium-chain	139107	2
Phönix	Triglycerides, medium-chain	141602	4
Phönix	Triglycerides, medium-chain	141604	6
Phönix	Triglycerides, medium-chain	142331	1
Phönix	Triglycerides, medium-chain	153752	1
PHÖNIX	Triglycerides, medium-chain	160041	1
phönix	Triglycerides, medium-chain	1606035	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Triglycerides, medium-chain	1606035-03	1
Phönix	Triglycerides, medium-chain	16124304	1
Phönix	Triglycerides, medium-chain	16H18-B01-331028	1
Phönix	Triglycerides, medium-chain	180103401	1
Phönix	Triglycerides, medium-chain	1801034-02	1
Phönix	Triglycerides, medium-chain	1805020-01	1
Phönix	Triglycerides, medium-chain	18118807	1
Phönix	Triglycerides, medium-chain	1812014-01	1
Phönix	Triglycerides, medium-chain	18238901	1
Phönix	Triglycerides, medium-chain	18G13-B01-355309	1
Phönix	Triglycerides, medium-chain	1902005-02	1
Phönix	Triglycerides, medium-chain	192866003	2
Phönix	Triglycerides, medium-chain	20003429001	2
Phönix	Triglycerides, medium-chain	20003429008	1
Phönix	Triglycerides, medium-chain	20003429009	1
PHÖNIX	Triglycerides, medium-chain	20003429066	1
Phönix	Triglycerides, medium-chain	2002001-01	1
Phönix	Triglycerides, medium-chain	2007018-01	1
Phönix	Triglycerides, medium-chain	3158	1
PhytoComm	Triglycerides, medium-chain	18118807	1
Röntgen	Triglycerides, medium-chain	1801034-01	1
Röntgen	Triglycerides, medium-chain	1902005-01	1
Röntgen	Triglycerides, medium-chain	2005031-01	1
Sanacorp /Bionorica	Triglycerides, medium-chain	116640	2
Sanacorp WE:27.09.17 ...	Triglycerides, medium-chain	107077	1
Sanacorp/Bionorica ethics	Triglycerides, medium-chain	109949	1
Sanacorp/Bionorica ethics	Triglycerides, medium-chain	116640	1
Sanacorp/Bionorica ethics	Triglycerides, medium-chain	120017	1
Sanacorp/Bionorica ethics	Triglycerides, medium-chain	123013	2
Sanacorp/Bionorica Ethics	Triglycerides, medium-chain	83204	1
Sanacorp/Bionorica Ethics	Triglycerides, medium-chain	95079	1
Sanacorp/Bionorica Ethics	Triglycerides, medium-chain	98573	3
Sanacorp/Bionorica	Triglycerides, medium-chain	109952	2
Sanacorp/Bionorica	Triglycerides, medium-chain	123999	1
Sanacorp/Bionorica	Triglycerides, medium-chain	128841	2
Sanacorp	Triglycerides, medium-chain		1
Sanacorp	Triglycerides, medium-chain	109950	1
Sanacorp	Triglycerides, medium-chain	12078604	1
Sanacorp	Triglycerides, medium-chain	12356903	1
Sanacorp	Triglycerides, medium-chain	12356908	1
Sanacorp	Triglycerides, medium-chain	128842	1
Sanacorp	Triglycerides, medium-chain	130502	1
Sanacorp	Triglycerides, medium-chain	13177102	1
Sanacorp	Triglycerides, medium-chain	13348502	2
Sanacorp	Triglycerides, medium-chain	14219003	3
Sanacorp	Triglycerides, medium-chain	145765	1
sanacorp	Triglycerides, medium-chain	148242	1
Sanacorp	Triglycerides, medium-chain	1504029	1
Sanacorp	Triglycerides, medium-chain	1504029-02	1
Sanacorp	Triglycerides, medium-chain	15139608	1
Sanacorp	Triglycerides, medium-chain	15272003	1
Sanacorp	Triglycerides, medium-chain	15379608	1
Sanacorp	Triglycerides, medium-chain	17016007	2
Sanacorp	Triglycerides, medium-chain	171209	1
Sanacorp	Triglycerides, medium-chain	17361001	5
Sanacorp	Triglycerides, medium-chain	17361002	2
Sanacorp	Triglycerides, medium-chain	18118801	3
Sanacorp	Triglycerides, medium-chain	18118807	1
Sanacorp	Triglycerides, medium-chain	18118808	1
Sanacorp	Triglycerides, medium-chain	18238901	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Triglycerides, medium-chain	18238902	4
Sanacorp	Triglycerides, medium-chain	18239003	1
Sanacorp	Triglycerides, medium-chain	18G13-B01	4
Sanacorp	Triglycerides, medium-chain	18G13-B01-357639	1
Sanacorp	Triglycerides, medium-chain	19060001	1
Sanacorp	Triglycerides, medium-chain	19060002	1
Sanacorp	Triglycerides, medium-chain	19060011	1
Sanacorp	Triglycerides, medium-chain	192866002	2
Sanacorp	Triglycerides, medium-chain	192866005	1
sanacorp	Triglycerides, medium-chain	2007018-01	2
Sanacorp	Triglycerides, medium-chain	56/AKD3	1
Sanacorp	Triglycerides, medium-chain	58/AKD4	1
Sanacorp	Triglycerides, medium-chain	6/AKD12	1
Sanacorp	Triglycerides, medium-chain	93574	1
Sanacorp	Triglycerides, medium-chain	98570	2
Spangro 23.2.19	Triglycerides, medium-chain	17F16-B02-525622	1
Spectrum Therapeutics G...	Triglycerides, medium-chain	145767	1
Spectrum Therapeutics G...	Triglycerides, medium-chain	145768	2
Spectrum Therapeutics G...	Triglycerides, medium-chain	150935	1
Spectrum Therapeutics G...	Triglycerides, medium-chain	158325	1
Spectrum Therapeutics N...	Triglycerides, medium-chain	145766	2
Spectrum therapeutics/ ...	Triglycerides, medium-chain	158740	1
Spectrum Therapeutics/ ...	Triglycerides, medium-chain	145766	3
Spectrum Therapeutics/ ...	Triglycerides, medium-chain	145765	1
Spectrum Therapeutics/ ...	Triglycerides, medium-chain	145766	1
Spectrum Therapeutics/ ...	Triglycerides, medium-chain	153218	1
Spectrum Therapeutics/ ...	Triglycerides, medium-chain	153219	2
Spectrum Therapeutics/ ...	Triglycerides, medium-chain	15321B	1
Spectrum Therapeutics/ ...	Triglycerides, medium-chain	145766	3
Spectrum Therapeutics/ ...	Triglycerides, medium-chain	161427	1
Spectrum Therapeutics/G...	Triglycerides, medium-chain	145766	1
Spectrum Therapeutics/G...	Triglycerides, medium-chain	153218	4
Spectrum Therapeutics/G...	Triglycerides, medium-chain	145765	2
Spectrum Therapeutics/N...	Triglycerides, medium-chain	156356	1
Spectrum Therapeutics/N...	Triglycerides, medium-chain	157871	3
Spectrum Therapeutics/S...	Triglycerides, medium-chain	153219	1
Spectrum Therapeutics/S...	Triglycerides, medium-chain	145766	1
Spectrum Therapeutics/S...	Triglycerides, medium-chain	153220	2
Spectrum Therapeutics	Triglycerides, medium-chain	145765	2
Spectrum Therapeutics	Triglycerides, medium-chain	145766	5
Spectrum Therapeutics	Triglycerides, medium-chain	145768	2
Spectrum Therapeutics	Triglycerides, medium-chain	153218	5
Spectrum Therapeutics	Triglycerides, medium-chain	153219	30
Spectrum Therapeutics	Triglycerides, medium-chain	157871	4
Spectrum Therapeutics	Triglycerides, medium-chain	159423	1
Spectrum Therapeutics	Triglycerides, medium-chain	161427	1
spectrum therapeutics	Triglycerides, medium-chain	162121	1
Spectrum über Phönix	Triglycerides, medium-chain	145765	1
Spectrum/ Alliance	Triglycerides, medium-chain	153218	3
spectrum/gehe	Triglycerides, medium-chain	153218	2
spectrum/gehe	Triglycerides, medium-chain	162221	1
Spectrum	Triglycerides, medium-chain	153219	2
Spectrum	Triglycerides, medium-chain	153220	5
SpectrumTherapeutics/Bi...	Triglycerides, medium-chain	145765	1
SpectrumTherapeutics/Bi...	Triglycerides, medium-chain	159423	1
SpectrumTherapeutics/Bi...	Triglycerides, medium-chain	162602	1
SpectrumTherapeutics/No...	Triglycerides, medium-chain	162121	1
SpectrumTherapeutics/Ph...	Triglycerides, medium-chain	145765	1
SpectrumTherapeutics/Ph...	Triglycerides, medium-chain	145766	2
spectrumtherapeutics/Ph...	Triglycerides, medium-chain	145768	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
SpectrumTherapeutics/Ph...	Triglycerides, medium-chain	153218	1
spectrumTherapeutics	Triglycerides, medium-chain	145765	1
spectrumTherapeutics	Triglycerides, medium-chain	145766	4
SpectrumTherapeutics	Triglycerides, medium-chain	153220	1
SpectrumTherapeutics	Triglycerides, medium-chain	159423	2
SpectrumTherapeutics	Triglycerides, medium-chain	159426	1
SpectrumTherapeutics	Triglycerides, medium-chain	159860	1
SpectrumTherapeutics	Triglycerides, medium-chain	220527(0000159422)	1
SpectrumTherapeutics	Triglycerides, medium-chain	220608(0000159423)	1
SpectrumTherapeutics	Triglycerides, medium-chain	288005	1
SpectrumTherapeutics	Triglycerides, medium-chain	304345	1
THC Noweda	Triglycerides, medium-chain	141602	3
THC Noweda	Triglycerides, medium-chain	VT150221-0	1
THC Pharm / Phönix	Triglycerides, medium-chain	95083	1
THC Pharm GmbH	Triglycerides, medium-chain	105040	1
THC Pharm GmbH	Triglycerides, medium-chain	105041	2
THC Pharm GmbH	Triglycerides, medium-chain	105043	1
THC Pharm GmbH	Triglycerides, medium-chain	116690	2
THC Pharm GmbH	Triglycerides, medium-chain	127733	2
THC Pharm/ Noweda	Triglycerides, medium-chain	116637	1
THC Pharm/ Noweda	Triglycerides, medium-chain	116644	1
THC Pharm/ Noweda	Triglycerides, medium-chain	123998	1
THC Pharm/Alliance	Triglycerides, medium-chain	109948	3
THC PHarm/Bionorica	Triglycerides, medium-chain	109949	1
THC PHarm/Bionorica	Triglycerides, medium-chain	116691	3
THC PHarm/Bionorica	Triglycerides, medium-chain	127733	2
THC Pharm/Gehe	Triglycerides, medium-chain	128840	1
THC Pharm/Gehe	Triglycerides, medium-chain	129877	1
THC Pharm/Gehe	Triglycerides, medium-chain	135057	3
THC Pharm/Phoenix	Triglycerides, medium-chain	116644	1
THC Pharm/Phoenix	Triglycerides, medium-chain	116690	1
THC Pharm/Phoenix	Triglycerides, medium-chain	123998	1
THC pharm/Sanacorp	Triglycerides, medium-chain	141602	1
THC pharm/Sanacorp	Triglycerides, medium-chain	141603	3
THC Pharm/Sanacorp	Triglycerides, medium-chain	91714	1
THC Pharm	Triglycerides, medium-chain		1
THC Pharm	Triglycerides, medium-chain	105044	1
THC Pharm	Triglycerides, medium-chain	116637	2
THC Pharm	Triglycerides, medium-chain	116644	1
THC PHARM	Triglycerides, medium-chain	116644	1
THC Pharm	Triglycerides, medium-chain	116691	3
THC Pharm	Triglycerides, medium-chain	11690	1
THC Pharm	Triglycerides, medium-chain	123998	2
THC Pharm	Triglycerides, medium-chain	125595	2
THC Pharm	Triglycerides, medium-chain	127733	2
THC Pharm	Triglycerides, medium-chain	128840	3
THC Pharm	Triglycerides, medium-chain	129877	1
THC Pharm	Triglycerides, medium-chain	135057	3
THC Pharm	Triglycerides, medium-chain	139107	1
THC Pharm	Triglycerides, medium-chain	141602	3
THC Pharm	Triglycerides, medium-chain	141604	1
THC Pharm	Triglycerides, medium-chain	195057	1
THC Pharm	Triglycerides, medium-chain	250696	1
THC Pharm	Triglycerides, medium-chain	266724	1
THC Pharm	Triglycerides, medium-chain	93571	1
THC Pharm	Triglycerides, medium-chain	93573	2
THC Pharm	Triglycerides, medium-chain	F12-3661800	1
THC Pharm	Triglycerides, medium-chain	VT091219-0	1
THC Pharma / Alliance H...	Triglycerides, medium-chain	93566	1
THC Pharma / Alliance H...	Triglycerides, medium-chain	109953	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
THC Pharma / Phoenix	Triglycerides, medium-chain	127733	3
THC Pharma / Phönix	Triglycerides, medium-chain	109948	1
THC Pharma / Phönix	Triglycerides, medium-chain	116690	4
THC Pharma CPM/Phönix	Triglycerides, medium-chain	105043	4
THC Pharma/ AHD	Triglycerides, medium-chain	127733	1
THC Pharma/ Alliance He...	Triglycerides, medium-chain	116690	1
THC Pharma/ Anzag	Triglycerides, medium-chain	116644	1
THC Pharma/ Gehe	Triglycerides, medium-chain	116637	1
THC Pharma/ Gehe	Triglycerides, medium-chain	116644	2
THC Pharma/ gehe	Triglycerides, medium-chain	116690	1
THC Pharma/ Phönix	Triglycerides, medium-chain	105041	3
Thc Pharma/ Spangro	Triglycerides, medium-chain	125595	1
Thc Pharma/ Spangro	Triglycerides, medium-chain	135057	1
Thc Pharma/ Spangro	Triglycerides, medium-chain	266724	1
THC Pharma/Gehe	Triglycerides, medium-chain	105041	1
THC Pharma/Gehe	Triglycerides, medium-chain	105043	1
THC Pharma/Gehe	Triglycerides, medium-chain	116644	1
THC Pharma/Gehe	Triglycerides, medium-chain	11669105/20	1
THC Pharma/Kehr	Triglycerides, medium-chain	129877	3
THC Pharma/Kehr	Triglycerides, medium-chain	135057	1
THC Pharma/Kehr	Triglycerides, medium-chain	139374	2
THC Pharma/Kehr	Triglycerides, medium-chain	VT050819-0	2
THC Pharma/Noweda	Triglycerides, medium-chain	105043	1
THC Pharma/Noweda	Triglycerides, medium-chain	125595	6
THC Pharma/Noweda	Triglycerides, medium-chain	2014030260	1
THC Pharma/Noweda	Triglycerides, medium-chain	2015070139	1
THC Pharma/Noweda	Triglycerides, medium-chain	266724	1
THC Pharma/Noweda	Triglycerides, medium-chain	93573	1
THC Pharma/Noweda	Triglycerides, medium-chain	VT230419-0	1
THC Pharma/Noweda	Triglycerides, medium-chain	VT2304-19-0	1
THC Pharma/Phoenix	Triglycerides, medium-chain	VT200418	1
THC Pharma/Phoenix	Triglycerides, medium-chain	VT280918-1	1
THC Pharma/Phönix	Triglycerides, medium-chain		1
THC Pharma/Phönix	Triglycerides, medium-chain	128840	2
THC Pharma/Phönix	Triglycerides, medium-chain	85533	1
THC Pharma/Phönix	Triglycerides, medium-chain	90059	2
THC Pharma/Phönix	Triglycerides, medium-chain	93571	1
THC Pharma/Sanacorp	Triglycerides, medium-chain	93572	1
THC Pharma	Triglycerides, medium-chain	105040	2
THC Pharma	Triglycerides, medium-chain	105041	1
THC Pharma	Triglycerides, medium-chain	105042	1
THC Pharma	Triglycerides, medium-chain	105043	8
THC Pharma	Triglycerides, medium-chain	105044	1
THC Pharma	Triglycerides, medium-chain	109948	2
THC Pharma	Triglycerides, medium-chain	116637	2
THC Pharma	Triglycerides, medium-chain	116690	5
THC Pharma	Triglycerides, medium-chain	123998	5
THC Pharma	Triglycerides, medium-chain	127733	9
THC Pharma	Triglycerides, medium-chain	128840	2
THC Pharma	Triglycerides, medium-chain	139107	1
THC Pharma	Triglycerides, medium-chain	141602	2
THC Pharma	Triglycerides, medium-chain	145766	1
THC Pharma	Triglycerides, medium-chain	161123	1
THC Pharma	Triglycerides, medium-chain	2012050379	1
THC Pharma	Triglycerides, medium-chain	91714	1
THC Pharma	Triglycerides, medium-chain	93573	1
THC Pharma	Triglycerides, medium-chain	98570	1
THC Pharma	Triglycerides, medium-chain	98572	2
THC Rezeptur-Set	Triglycerides, medium-chain	95084	2
THC/ Anzag	Triglycerides, medium-chain	123998	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
THC/ Anzag	Triglycerides, medium-chain	125595	5
THC/ Anzag	Triglycerides, medium-chain	127733	3
THC/ Anzag	Triglycerides, medium-chain	128840	1
THC/ Anzag	Triglycerides, medium-chain	135057	1
THC/ Anzag	Triglycerides, medium-chain	257537	1
THC/ KEHR	Triglycerides, medium-chain	116637	1
THC/ Noweda	Triglycerides, medium-chain	116637	2
THC/ Noweda	Triglycerides, medium-chain	127733	1
THC/ Noweda	Triglycerides, medium-chain	141602	7
THC/ Noweda	Triglycerides, medium-chain	283811	1
THC/ Phönix Pharma Eink...	Triglycerides, medium-chain	132615	6
THC/AEP	Triglycerides, medium-chain	116644	1
THC/AEP	Triglycerides, medium-chain	125595	1
THC/AEP	Triglycerides, medium-chain	12595	1
THC/AHD	Triglycerides, medium-chain	125595	1
THC/Gehe	Triglycerides, medium-chain	105041	2
THC/Gehe	Triglycerides, medium-chain	105042	13
THC/Gehe	Triglycerides, medium-chain	105043	11
THC/Gehe	Triglycerides, medium-chain	105044	1
THC/Gehe	Triglycerides, medium-chain	109948	2
THC/Gehe	Triglycerides, medium-chain	116690	1
THC/Gehe	Triglycerides, medium-chain	15057	1
THC/Gehe	Triglycerides, medium-chain	250696	1
THC/Gehe	Triglycerides, medium-chain	98572	1
THC/Gehe	Triglycerides, medium-chain	VT131217-1	1
THC/Gehe	Triglycerides, medium-chain	VT281117-2	1
THC/Noweda	Triglycerides, medium-chain	105040	8
THC/Noweda	Triglycerides, medium-chain	105042	1
THC/Noweda	Triglycerides, medium-chain	116644	2
THC/Noweda	Triglycerides, medium-chain	116691	2
THC/Noweda	Triglycerides, medium-chain	123998	3
THC/Noweda	Triglycerides, medium-chain	125595	2
THC/Noweda	Triglycerides, medium-chain	127733	5
THC/Noweda	Triglycerides, medium-chain	128840	1
THC/Noweda	Triglycerides, medium-chain	135057	3
THC/Noweda	Triglycerides, medium-chain	139107	2
THC/Noweda	Triglycerides, medium-chain	251649	2
THC/Noweda	Triglycerides, medium-chain	275765/0000288005	1
THC/Noweda	Triglycerides, medium-chain	93570	1
THC/Noweda	Triglycerides, medium-chain	VT050819-0	2
THC/Noweda	Triglycerides, medium-chain	VT070920-0	1
THC/Noweda	Triglycerides, medium-chain	VT091219-0	1
THC/Noweda	Triglycerides, medium-chain	VT140219-1	1
THC/Noweda	Triglycerides, medium-chain	VT200520-00000141602	1
THC/Phoenix	Triglycerides, medium-chain	123998	1
THC/phönix	Triglycerides, medium-chain	116644	3
THC/Phönix	Triglycerides, medium-chain	116644	1
THC/Phönix	Triglycerides, medium-chain	116690	1
THC/Phönix	Triglycerides, medium-chain	135056	5
THC/Phönix	Triglycerides, medium-chain	2014030260	2
THC/Phönix	Triglycerides, medium-chain	95084	1
THC/Sana	Triglycerides, medium-chain	2015070139	2
THC	Triglycerides, medium-chain	105040	1
THC	Triglycerides, medium-chain	105041	3
THC	Triglycerides, medium-chain	105043	3
THc	Triglycerides, medium-chain	109948	2
THC	Triglycerides, medium-chain	116690	1
THC	Triglycerides, medium-chain	123998	2
THC	Triglycerides, medium-chain	125595	4
THC	Triglycerides, medium-chain	128840	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
THC	Triglycerides, medium-chain	135057	2
THC	Triglycerides, medium-chain	139107	1
THC	Triglycerides, medium-chain	141602	2
THC	Triglycerides, medium-chain	141603	1
THC	Triglycerides, medium-chain	180522PMT0000105043	1
THC	Triglycerides, medium-chain	95083	1
THC	Triglycerides, medium-chain	VT050819-0	1
THC_PHARM/Noweda	Triglycerides, medium-chain	125595	2
THC_PHARM/Noweda	Triglycerides, medium-chain	129877	2
THC_PHARM/Noweda	Triglycerides, medium-chain	135057	5
THC_PHARM/Noweda	Triglycerides, medium-chain	141602	5
THC_PHARM/Noweda	Triglycerides, medium-chain	141603	10
THC_PHARM/Noweda	Triglycerides, medium-chain	145765	1
THC_PHARM/Noweda	Triglycerides, medium-chain	257537	1
THC_PHARM/Noweda	Triglycerides, medium-chain	283811	4
THC_PHARM/Noweda	Triglycerides, medium-chain	VW100920-1	1
THC_PHARMA/Noweda	Triglycerides, medium-chain	116637	1
THC_PHARMA/Noweda	Triglycerides, medium-chain	139107	3
THC-Ph -Noweda	Triglycerides, medium-chain	123998	1
THCPH/ Gehe	Triglycerides, medium-chain	129877	3
THCPH/ Noweda	Triglycerides, medium-chain	127799	1
THCPH/ Noweda	Triglycerides, medium-chain	135057	7
THCPH/ Noweda	Triglycerides, medium-chain	139107	2
THCPH/ Noweda	Triglycerides, medium-chain	VT200520-0	1
THCPH/ Phoenix	Triglycerides, medium-chain	123998	1
THCPH/ Phoenix	Triglycerides, medium-chain	125595	3
THCPH/ Phoenix	Triglycerides, medium-chain	127733	2
THCPH/ Phoenix	Triglycerides, medium-chain	128840	1
THC-Pharm GmbH	Triglycerides, medium-chain	105042	1
THC-Pharm GmbH	Triglycerides, medium-chain	105043	2
THCPharm/Gehe	Triglycerides, medium-chain	125595	3
THCPharm/Noweda	Triglycerides, medium-chain	250696	3
THC-Pharma/Sanacorp	Triglycerides, medium-chain	105040	1
THC-Pharma	Triglycerides, medium-chain	105040	1
THC-Pharma	Triglycerides, medium-chain	105042	1
THC-Pharma	Triglycerides, medium-chain	107077	1
THC-Pharma	Triglycerides, medium-chain	109948	3
THC-Pharma	Triglycerides, medium-chain	116644	2
THC-Pharma	Triglycerides, medium-chain	116690	3
THC-Pharma	Triglycerides, medium-chain	123998	6
THC-Pharma	Triglycerides, medium-chain	125595	4
THC-Pharma	Triglycerides, medium-chain	127733	1
THC-Pharma	Triglycerides, medium-chain	129877	2
THC-Pharma	Triglycerides, medium-chain	135057	2
THC-Pharma	Triglycerides, medium-chain	141603	2
THC-Pharma	Triglycerides, medium-chain	14602	1
THC-Pharma	Triglycerides, medium-chain	16690	1
THC-Pharma	Triglycerides, medium-chain	266724	1
THC-Pharma	Triglycerides, medium-chain	93570	1
THC-Pharma	Triglycerides, medium-chain	93572	1
THC-Pharma	Triglycerides, medium-chain	95084	1
THC-Pharma	Triglycerides, medium-chain	VT021018-3	1
THC-Pharma	Triglycerides, medium-chain	VT150518-1	1
Tilray Deutschland GmbH	Triglycerides, medium-chain	N0000009663	4
Tilray Deutschland GmbH	Triglycerides, medium-chain	N0000009664	2
Vertical/ noweda	Triglycerides, medium-chain	1500	1
WE:05.04.2016 Sanacorp	Triglycerides, medium-chain	15272006	1
Wepa/DHL	Triglycerides, medium-chain	128361	1

- 289 576 spectra from 1324 *Apo-Ident* customers from a total of 52 051 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Triglycerides, medium-chain* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Triglycerides, medium-chain* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	400	0	68 099
Type B	0	1010	0	110 253
Type C	0	7854	28	289 576

The substance/substance group *Triglycerides, medium-chain* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.5000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.4059 %)
Type C	100.0000 % (> 99.6875 %)	99.6448 % (> 99.6067 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Triglycerides, medium-chain* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
2-ethylhexyl laurate	20.07	–
Squalane	21.92	–
Laurel oil	31.26	–
Wool fat	32.71	–
Soy lecithin, liquid	33.64	–
Guaiazulene 25%, water-soluble	35.82	–
Wheatgerm oil, refined	37.82	–
Shea butter, refined	39.59	–
Peanut oil, refined	40.44	–
Isopropyl myristate	40.66	–
Pasta Cordes®	40.90	–

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Substanz	Distance in main model	Distance in second-stage model
Sunflower oil, refined	42.18	–
Sesame oil, refined	42.23	–
Apricot kernel oil, refined	42.58	–
Soy oil, refined	43.79	–
Rapeseed oil, refined	44.28	–
Grape seed oil, refined	44.44	–
Camphor ointment	44.58	–
Sorbitan trioleate	44.84	–
Petroleum oil, not for internal use	45.72	–
Corn oil, refined	46.66	–
Avocado oil, refined	48.02	–
Isopropyl palmitate	48.81	–
Metronidazole 25% in white petrolatum	49.78	–
Olive oil, native	50.53	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Triglycerides, medium-chain* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31483	31483	0.00	21.42
31484	31804	1.94	18.62
31485	31804	2.10	18.39
31771	31771	0.00	20.05
31804	31804	0.00	17.81
31955	31955	0.00	18.78
34674	31804	2.00	16.63

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Triglycerol diisostearate**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30756-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Triglycerol diisostearate; Triglyceroli diisostearas

Special notes

When selecting the *Triglycerol diisostearate* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Triglycerol diisostearate	5	4	66

Second-stage model

For differentiation of the substance/substance group *Triglycerol diisostearate* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Triglycerol diisostearate*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Triglycerol diis...	12018503	30756	40	20120201
Caelo	Triglycerol diis...	13081002	31219	40	1403749
Caelo	Triglycerol diis...	14118801	31338	40	20140425
Caelo	Triglycerol diis...	20001275	35014	40	20200513*
Caelo	Triglycerol diis...	22001928	36486	40	20220706*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 200 spectra of 5 reference samples from the substance/substance group *Triglycerol diisostearate*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 299 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 160 spectra of 4 reference samples from the substance/substance group *Triglycerol diisostearate*.
- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Triglycerol diisostearate	163311	33094	40
Caelo	Triglycerol diisostearate	180592	34073	40
Caelo	Triglycerol diisostearate	20001286	34999	40
Caelo	Triglycerol diisostearate	21001126010	36052	40

- 111 153 spectra from a total of 2662 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 510 spectra from 266 *Apo-Ident* customers from 69 batches from the substance/substance group *Triglycerol diisostearate*.
- Among them are spectra of independent samples from 66 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Alliance Healthcare	Triglycerol diisostearate	18059207	1
Audor Pharma	Triglycerol diisostearate	14118801	1
Audor Pharma	Triglycerol diisostearate	916I-03496	1
Bombastus	Triglycerol diisostearate	15283405	1
Bombastus	Triglycerol diisostearate	18059201	1
Caelo	Triglycerol diisostearate	11074801	1
Caelo	Triglycerol diisostearate	11162902	1
Caelo	Triglycerol diisostearate	12018501	2
Caelo	Triglycerol diisostearate	12018503	3
Caelo	Triglycerol diisostearate	12133303	5
Caelo	Triglycerol diisostearate	12359401	3
Caelo	Triglycerol diisostearate	12359405	7
Caelo	Triglycerol diisostearate	13081002	4
Caelo	Triglycerol diisostearate	13236704	8
Caelo	Triglycerol diisostearate	13399003	7
Caelo	Triglycerol diisostearate	14054802	2
Caelo	Triglycerol diisostearate	14118801	10
Caelo	Triglycerol diisostearate	14118804	2
Caelo	Triglycerol diisostearate	14193003	5
Caelo	Triglycerol diisostearate	14193008	7
Caelo	Triglycerol diisostearate	14380504	11
Caelo	Triglycerol diisostearate	151375	1
Caelo	Triglycerol diisostearate	15137505	15
Caelo	Triglycerol diisostearate	15283401	1
Caelo	Triglycerol diisostearate	15283402	9
Caelo	Triglycerol diisostearate	15283403	1
Caelo	Triglycerol diisostearate	15283404	12
Caelo	Triglycerol diisostearate	15283405	5
Caelo	Triglycerol diisostearate	15283406	2
Caelo	Triglycerol diisostearate	152835405	1
Caelo	Triglycerol diisostearate	16062502	31
Caelo	Triglycerol diisostearate	16179202	1
Caelo	Triglycerol diisostearate	16179205	3
Caelo	Triglycerol diisostearate	16179207	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Triglycerol diisostearate	163311001	1
Caelo	Triglycerol diisostearate	16331101	30
Caelo	Triglycerol diisostearate	16331102	1
Caelo	Triglycerol diisostearate	16331103	21
Caelo	Triglycerol diisostearate	16331107	7
Caelo	Triglycerol diisostearate	18059201	42
Caelo	Triglycerol diisostearate	18059202	1
Caelo	Triglycerol diisostearate	18059207	25
Caelo	Triglycerol diisostearate	18059208	1
Caelo	Triglycerol diisostearate	18183802	15
Caelo	Triglycerol diisostearate	18183806	5
Caelo	Triglycerol diisostearate	18183807	2
Caelo	Triglycerol diisostearate	1859201	1
Caelo	Triglycerol diisostearate	1883802	1
Caelo	Triglycerol diisostearate	19138901	19
Caelo	Triglycerol diisostearate	19138902	7
Caelo	Triglycerol diisostearate	19138909	1
Caelo	Triglycerol diisostearate	1913891	1
Caelo	Triglycerol diisostearate	19244203	1
Caelo	Triglycerol diisostearate	192744002	2
Caelo	Triglycerol diisostearate	192744003	24
Caelo	Triglycerol diisostearate	192744003P200319-14	1
Caelo	Triglycerol diisostearate	19274403	1
Caelo	Triglycerol diisostearate	2(18059201)	1
Caelo	Triglycerol diisostearate	20001275003	19
Caelo	Triglycerol diisostearate	20001275007	8
Caelo	Triglycerol diisostearate	20001275010	9
Caelo	Triglycerol diisostearate	20003894004	5
Caelo	Triglycerol diisostearate	21001126003	2
Caelo	Triglycerol diisostearate	21001126008	1
Caelo	Triglycerol diisostearate	21001126010	4
Caelo	Triglycerol diisostearate	27101713	1
Caelo	Triglycerol diisostearate	3296	1
Caelo	Triglycerol diisostearate	9082013A	1
Caelo	Triglycerol diisostearate	92744003	1
Caesar & Lorenz GmbH	Triglycerol diisostearate	192744003	1
Caesar & Loretz GmbH / ...	Triglycerol diisostearate	16062502	1
Caesar & Loretz GmbH / ...	Triglycerol diisostearate	18183802	3
Caesar & Loretz GmbH / ...	Triglycerol diisostearate	19138901	1
Caesar & Loretz GmbH/ P...	Triglycerol diisostearate	19138901	1
Caesar & Loretz GmbH/AHD	Triglycerol diisostearate	21001126010	1
Caesar & Loretz GmbH/Ge...	Triglycerol diisostearate	2000127510	1
Caesar & Loretz GmbH/Kr...	Triglycerol diisostearate	19138901	2
Caesar & Loretz GmbH	Triglycerol diisostearate	14054802	4
Caesar & Loretz GmbH	Triglycerol diisostearate	18183802	3
Caesar & Loretz GmbH	Triglycerol diisostearate	18183806	4
Caesar & Loretz GmbH	Triglycerol diisostearate	19138901	10
Caesar & Loretz GmbH	Triglycerol diisostearate	192744003	5
Caesar & Loretz GmbH	Triglycerol diisostearate	20001275003	2
Caesar & Loretz GmbH	Triglycerol diisostearate	20001275010	3
Caesar & Loretz GmbH	Triglycerol diisostearate	21001126003	6
Caesar & Loretz GmbH	Triglycerol diisostearate	22001928007	1
Caesar & Loretz/Noweda	Triglycerol diisostearate	20001275007	1
Caesar & Loretz	Triglycerol diisostearate	16331101	1
Caesar & Loretz	Triglycerol diisostearate	18059201	1
Caesar&Loretz GmbH	Triglycerol diisostearate	16331101	1
Caesar/Noweda	Triglycerol diisostearate	15283404	1
Cordes/Anzag	Triglycerol diisostearate	16331101	1
Fagron	Triglycerol diisostearate	14193003	1
Gehe	Triglycerol diisostearate	12359401	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Triglycerol diisostearate	14118801	2
Gehe	Triglycerol diisostearate	16062502	1
Gehe	Triglycerol diisostearate	16331101	1
GEHE	Triglycerol diisostearate	18059201	1
GUMO	Triglycerol diisostearate	192744003	1
Nachprüfung	Triglycerol diisostearate	3082019-5	1
Noweda	Triglycerol diisostearate	14193008	1
Noweda	Triglycerol diisostearate	14380504	1
Noweda	Triglycerol diisostearate	20001275003	1
Pala	Triglycerol diisostearate	1616E-03496	1
Pala	Triglycerol diisostearate	192744003	1
Phoenix	Triglycerol diisostearate	14054802	1
Phoenix	Triglycerol diisostearate	15283405	1
Phoenix	Triglycerol diisostearate	16331101	1
Phoenix	Triglycerol diisostearate	18183806	1
Phönix	Triglycerol diisostearate	16331103	1
PHÖNIX	Triglycerol diisostearate	16331103	1
Phonix	Triglycerol diisostearate	18059201	1
Phönix	Triglycerol diisostearate	18059201	4
Sanacorp	Triglycerol diisostearate	15137505	1

- 296 948 spectra from 1324 *Apo-Ident* customers from a total of 52 920 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Triglycerol diisostearate* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Triglycerol diisostearate* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	200	0	68 299
Type B	0	160	0	111 153
Type C	0	510	0	296 948

The substance/substance group *Triglycerol diisostearate* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 96.2500 %)
Type C	100.0000 % (> 99.6875 %)	100.0000 % (> 98.8235 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to

exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Triglycerol diisostearate* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Sorbitan- and glycerol monooleate	23.99	–
Castor oil, refined	33.47	–
Cetiol® HE	34.03	–
Castor oil, virgin	34.73	–
Softisan® 649	35.05	–
Macrogolglycerol ricinoleate	35.32	–
Hydrophilic ointment DAB	35.78	–
Macrogol 8 stereate type I	38.37	–
Macrogol 4 lauryl ether	39.61	–
Polysorbate 80	48.99	–
Pasta Cordes®	51.45	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Triglycerol diisostearate* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30756	31219	5.83	33.17
31219	31219	0.00	37.90
31338	35014	6.06	37.38
35014	35014	0.00	37.83
36486	36486	0.00	38.94

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Verbena oil, nature-identical**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30666-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Verbena oil, nature-identical

Special notes

When selecting the *Verbena oil, nature-identical* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Verbena oil, nature-identical	5	3	4

Second-stage model

For differentiation of the substance/substance group *Verbena oil, nature-identical* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Verbena oil, nature-identical*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Verbena oil, nat...	10368808	30666	40	20101229
Caelo	Verbena oil, nat...	13141710	31194	40	1412074
Caelo	Verbena oil, nat...	14026003	31399	40	20140128
Caelo	Verbena oil, nat...	15229809	32071	60	20150714
Caelo	Verbena oil, nat...	192731	34720	40	20191004*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 220 spectra of 5 reference samples from the substance/substance group *Verbena oil, nature-identical*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.
- 68 279 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 120 spectra of 3 reference samples from the substance/substance group *Verbena oil, nature-identical*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 3 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Verbena oil, nature-identical	16290903	33604	40
Caelo	Verbena oil, nature-identical	172589	33906	40
Caelo	Verbena oil, nature-identical	22000893003	36477	40

- 111 193 spectra from a total of 2663 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 5 spectra from 4 *Apo-Ident* customers from 4 batches from the substance/substance group *Verbena oil, nature-identical*.
- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Verbena oil, nature-identical	13141704	1
Caelo	Verbena oil, nature-identical	15229812	1
Caelo	Verbena oil, nature-identical	16290910	1
Caelo	Verbena oil, nature-identical	17258901	2

- 297 453 spectra from 1324 *Apo-Ident* customers from a total of 52 983 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Verbena oil, nature-identical* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Verbena oil, nature-identical* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	220	0	68 279
Type B	0	120	0	111 193
Type C	0	5	0	297 453

The substance/substance group *Verbena oil, nature-identical* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.2727 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.0000 %)
Type C	100.0000 % (> 99.6892 %)	n/a (n/a)

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Verbena oil, nature-identical* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Acorus oil	31.83	–
Geranium oil, genuine	40.01	–
Myrtle oil	46.46	–
Cedar wood oil	47.12	–
Dwarf pine oil	49.64	–
Matricaria oil, rich in (-)-alpha-bisa…	50.91	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Verbena oil, nature-identical* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30666	31194	2.37	52.85
31194	31194	0.00	56.16
31399	31194	3.40	54.59
32071	31194	4.69	53.25
34720	34720	0.00	55.94

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Viscous base solution (NRF p. 20)**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30659-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Viscous base solution (NRF p. 20)

Special notes

When selecting the *Viscous base solution (NRF p. 20)* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Viscous base solution (NRF p. 20)	14	79	591

Second-stage model

For differentiation of the substance/substance group *Viscous base solution (NRF p. 20)* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Viscous base solution (NRF p. 20)*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Viscous base sol...	12127301	30659	40	1403145
Caelo	Viscous base sol...	14020401	31354	60	20140124
Caelo	Viscous base sol...	14109401	31658	60	AR-15-FG-007904-01
Caelo	Viscous base sol...	15265401	31790	60	20150825
Caelo	Viscous base sol...	153888	31882	60	20151124*
Caelo	Viscous base sol...	153888	31883	60	20151124*
Caelo	Viscous base sol...	153888	31884	60	20151124*
Caelo	Viscous base sol...	153889	31885	60	20151124*
Caelo	Viscous base sol...	153889	31886	60	20151124*
Caelo	Viscous base sol...	154121	31887	60	20151130*
Caelo	Viscous base sol...	154121	31888	60	20151130*
Caelo	Viscous base sol...	153890	31889	60	20151124*
Caelo	Viscous base sol...	153890	31890	60	20151124*
Caelo	Viscous base sol...	153894	31893	60	20151130*
Caelo	Viscous base sol...	153894	31894	60	20151130*
Caelo	Viscous base sol...	153895	31895	60	20151130*
Caelo	Viscous base sol...	153895	31896	60	20151130*
Caelo	Viscous base sol...	191924	34775	40	20190809*
Caelo	Viscous base sol...	21000457	35483	40	20210305*
Caelo	Viscous base sol...	21000461	35484	40	20210305*
Caelo	Viscous base sol...	21004133	35975	40	20220120*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 1160 spectra of 21 reference samples from the substance/substance group *Viscous base solution (NRF p. 20)*. These samples are listed above in the *calibration samples* section. The reference samples come from 14 different batches.

- 67 339 spectra from a total of 1399 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 3140 spectra of 81 reference samples from the substance/substance group *Viscous base solution (NRF p. 20)*.
- Among them are spectra of independent samples from 79 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Viscous base solution (NRF p...	153892	31891	60
Caelo	Viscous base solution (NRF p...	153893	31892	60
Caelo	Viscous base solution (NRF p...	153896	31897	60
Caelo	Viscous base solution (NRF p...	153897	31899	60
Caelo	Viscous base solution (NRF p...	161076	32287	40
Caelo	Viscous base solution (NRF p...	161089	32288	40
Caelo	Viscous base solution (NRF p...	161090	32289	40
Caelo	Viscous base solution (NRF p...	162172	32356	40
Caelo	Viscous base solution (NRF p...	162173	32357	40
Caelo	Viscous base solution (NRF p...	162174	32358	40
Caelo	Viscous base solution (NRF p...	162175	32359	40
Caelo	Viscous base solution (NRF p...	162176	32360	40
Caelo	Viscous base solution (NRF p...	162297	32554	40
Caelo	Viscous base solution (NRF p...	162298	32555	40
Caelo	Viscous base solution (NRF p...	162299	32556	40
Caelo	Viscous base solution (NRF p...	162300	32557	40
Caelo	Viscous base solution (NRF p...	162301	32558	40
Caelo	Viscous base solution (NRF p...	162650	32559	40
Caelo	Viscous base solution (NRF p...	162651	32572	40
Caelo	Viscous base solution (NRF p...	162652	32573	40
Caelo	Viscous base solution (NRF p...	162653	32574	40
Caelo	Viscous base solution (NRF p...	162655	32575	40
Caelo	Viscous base solution (NRF p...	163153	32897	40
Caelo	Viscous base solution (NRF p...	163152	32898	40
Caelo	Viscous base solution (NRF p...	170176	33146	40
Caelo	Viscous base solution (NRF p...	170177	33147	40
Caelo	Viscous base solution (NRF p...	170178	33148	40
Caelo	Viscous base solution (NRF p...	170179	33149	40
Caelo	Viscous base solution (NRF p...	170180	33150	40
Caelo	Viscous base solution (NRF p...	170239	33151	40
Caelo	Viscous base solution (NRF p...	170240	33152	40
Caelo	Viscous base solution (NRF p...	172319	33730	40
Caelo	Viscous base solution (NRF p...	171940	33731	40
Caelo	Viscous base solution (NRF p...	171941	33732	40
Caelo	Viscous base solution (NRF p...	171942	33733	40
Caelo	Viscous base solution (NRF p...	171943	33734	40
Caelo	Viscous base solution (NRF p...	171944	33735	40
Caelo	Viscous base solution (NRF p...	172892	33972	40
Caelo	Viscous base solution (NRF p...	172895	33973	40
Caelo	Viscous base solution (NRF p...	180306	34131	40
Caelo	Viscous base solution (NRF p...	181240	34132	40
Caelo	Viscous base solution (NRF p...	181242	34249	40
Caelo	Viscous base solution (NRF p...	181244	34250	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Viscous base solution (NRF p...	182684	34311	40
Caelo	Viscous base solution (NRF p...	192231	34776	40
Caelo	Viscous base solution (NRF p...	20000004	34986	40
Caelo	Viscous base solution (NRF p...	20001919	35116	40
Caelo	Viscous base solution (NRF p...	21000463	35307	40
Caelo	Viscous base solution (NRF p...	21000462	35308	40
Caelo	Viscous base solution (NRF p...	21000680	35309	40
Caelo	Viscous base solution (NRF p...	21000458	35310	40
Caelo	Viscous base solution (NRF p...	21000460	35311	40
Caelo	Viscous base solution (NRF p...	21000466	35312	40
Caelo	Viscous base solution (NRF p...	21000456	35482	40
Caelo	Viscous base solution (NRF p...	21000464	35485	40
Caelo	Viscous base solution (NRF p...	21000465	35486	40
Caelo	Viscous base solution (NRF p...	21001316	35542	50
Caelo	Viscous base solution (NRF p...	21001317	35543	50
Caelo	Viscous base solution (NRF p...	21002611	35797	50
Caelo	Viscous base solution (NRF p...	21002612	35798	50
Caelo	Viscous base solution (NRF p...	21002613	35799	50
Caelo	Viscous base solution (NRF p...	21002614	35800	50
Caelo	Viscous base solution (NRF p...	21002616	35801	50
Caelo	Viscous base solution (NRF p...	21002617	35802	50
Caelo	Viscous base solution (NRF p...	21002618	35803	50
Caelo	Viscous base solution (NRF p...	21002619	35804	50
Caelo	Viscous base solution (NRF p...	21002883	35805	50
Caelo	Viscous base solution (NRF p...	21004134	35976	10
Caelo	Viscous base solution (NRF p...	21004135	35977	10
Caelo	Viscous base solution (NRF p...	21004136	35978	10
Caelo	Viscous base solution (NRF p...	21004137	35979	10
Caelo	Viscous base solution (NRF p...	21004138	35980	10
Caelo	Viscous base solution (NRF p...	21004139	35981	10
Caelo	Viscous base solution (NRF p...	21004140	35982	10
Caelo	Viscous base solution (NRF p...	21004141	35983	10
Caelo	Viscous base solution (NRF p...	21004142	35984	10
Caelo	Viscous base solution (NRF p...	22000614	36145	40
Caelo	Viscous base solution (NRF p...	22000615	36146	10
Caelo	Viscous base solution (NRF p...	22000616	36147	10
Caelo	Viscous base solution (NRF p...	153896	31898	60
Caelo	Viscous base solution (NRF p...	153897	31900	60

- 108 173 spectra from a total of 2587 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 2151 spectra from 224 *Apo-Ident* customers from 596 batches from the substance/substance group *Viscous base solution (NRF p. 20)*.

- Among them are spectra of independent samples from 591 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Spectra
Aliance am 08.04.2014	Viscous base solution (NRF p...	1306F002	1
Alliance Health 21.02.2...	Viscous base solution (NRF p...	13229502	2
Alliance Health.18.09.2...	Viscous base solution (NRF p...	14109901	1
Alliance Healthcare	Viscous base solution (NRF p...	20000004002	1
Anzag	Viscous base solution (NRF p...	17098401	2
apomix	Viscous base solution (NRF p...	12309201	1
apomix	Viscous base solution (NRF p...	13229501	1
apomix	Viscous base solution (NRF p...	16217601	1
Bahnhof Apotheke	Viscous base solution (NRF p...	160818001	1
Bahnhof Apotheke	Viscous base solution (NRF p...	160818002	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190409002	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190409003	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190430001	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190507001	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190507002	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190520001	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190520002	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190625001	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190625004	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190709001	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190709002	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190903003	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190903005	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190924001	1
Bahnhof Apotheke	Viscous base solution (NRF p...	190924002	1
Bahnhof Apotheke	Viscous base solution (NRF p...	191121003	1
Bahnhof Apotheke	Viscous base solution (NRF p...	191219003	1
Bahnhof Apotheke	Viscous base solution (NRF p...	191219004	1
Bahnhof Apotheke	Viscous base solution (NRF p...	200123004	1
Bahnhof Apotheke	Viscous base solution (NRF p...	200123005	1
Bahnhof-Apotheke	Viscous base solution (NRF p...	160823001	1
Bahnhof-Apotheke	Viscous base solution (NRF p...	160825001	1
Bahnhof-Apotheke	Viscous base solution (NRF p...	160825002	1
Bahnhof-Apotheke	Viscous base solution (NRF p...	190314003	1
Bahnhof-Apotheke	Viscous base solution (NRF p...	190314004	1
Bahnhof-Apotheke	Viscous base solution (NRF p...	190806001	1
Bahnhof-Apotheke	Viscous base solution (NRF p...	190806002	1
Bombastus	Viscous base solution (NRF p...	15265501	1
Bumbastus/Sanacorp	Viscous base solution (NRF p...	18206201	2
Caelo	Viscous base solution (NRF p...		4
Caelo	Viscous base solution (NRF p...	10000008001	1
Caelo	Viscous base solution (NRF p...	10006800022	1
Caelo	Viscous base solution (NRF p...	1071501	1
Caelo	Viscous base solution (NRF p...	11(20000004002)	1
Caelo	Viscous base solution (NRF p...	11031709	1
Caelo	Viscous base solution (NRF p...	11140501	1
Caelo	Viscous base solution (NRF p...	11176401	1
Caelo	Viscous base solution (NRF p...	12019001	1
Caelo	Viscous base solution (NRF p...	12019002	2
Caelo	Viscous base solution (NRF p...	12093701	1
Caelo	Viscous base solution (NRF p...	12093801	1
Caelo	Viscous base solution (NRF p...	12093901	1
Caelo	Viscous base solution (NRF p...	12094101	2
Caelo	Viscous base solution (NRF p...	12127301	1
Caelo	Viscous base solution (NRF p...	12127501	1
Caelo	Viscous base solution (NRF p...	12127601	2
Caelo	Viscous base solution (NRF p...	12231002	1
Caelo	Viscous base solution (NRF p...	12231101	5
Caelo	Viscous base solution (NRF p...	12231201	1
Caelo	Viscous base solution (NRF p...	12249801	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Viscous base solution (NRF p...	12249901	3
Caelo	Viscous base solution (NRF p...	1224991	1
Caelo	Viscous base solution (NRF p...	12309101	11
Caelo	Viscous base solution (NRF p...	12309201	6
Caelo	Viscous base solution (NRF p...	12309202	3
Caelo	Viscous base solution (NRF p...	13006001	3
Caelo	Viscous base solution (NRF p...	13006201	3
Caelo	Viscous base solution (NRF p...	13006401	6
Caelo	Viscous base solution (NRF p...	13006501	1
Caelo	Viscous base solution (NRF p...	13011807	1
Caelo	Viscous base solution (NRF p...	13071302	1
Caelo	Viscous base solution (NRF p...	13096001	2
Caelo	Viscous base solution (NRF p...	13096101	6
Caelo	Viscous base solution (NRF p...	13150801	3
Caelo	Viscous base solution (NRF p...	13150802	2
Caelo	Viscous base solution (NRF p...	13151101	5
Caelo	Viscous base solution (NRF p...	13151201	4
Caelo	Viscous base solution (NRF p...	13158001	9
Caelo	Viscous base solution (NRF p...	13158002	2
Caelo	Viscous base solution (NRF p...	13158101	2
Caelo	Viscous base solution (NRF p...	13158201	4
Caelo	Viscous base solution (NRF p...	13220101	1
Caelo	Viscous base solution (NRF p...	13228901	8
Caelo	Viscous base solution (NRF p...	13229001	4
Caelo	Viscous base solution (NRF p...	13229101	1
Caelo	Viscous base solution (NRF p...	13229201	2
Caelo	Viscous base solution (NRF p...	13229501	4
Caelo	Viscous base solution (NRF p...	13229502	3
Caelo	Viscous base solution (NRF p...	13246101	1
Caelo	Viscous base solution (NRF p...	13246401	5
Caelo	Viscous base solution (NRF p...	13246501	6
Caelo	Viscous base solution (NRF p...	13246701	4
Caelo	Viscous base solution (NRF p...	13246901	1
Caelo	Viscous base solution (NRF p...	14000801	8
Caelo	Viscous base solution (NRF p...	14000901	1
Caelo	Viscous base solution (NRF p...	14020301	5
Caelo	Viscous base solution (NRF p...	14020401	10
Caelo	Viscous base solution (NRF p...	14020402	5
Caelo	Viscous base solution (NRF p...	14020502	5
Caelo	Viscous base solution (NRF p...	14020601	3
Caelo	Viscous base solution (NRF p...	14058901	3
Caelo	Viscous base solution (NRF p...	14059001	2
Caelo	Viscous base solution (NRF p...	14059101	5
Caelo	Viscous base solution (NRF p...	14059301	1
Caelo	Viscous base solution (NRF p...	14109401	7
Caelo	Viscous base solution (NRF p...	14109402	4
Caelo	Viscous base solution (NRF p...	14109501	5
Caelo	Viscous base solution (NRF p...	14109701	1
Caelo	Viscous base solution (NRF p...	14109901	11
Caelo	Viscous base solution (NRF p...	14110001	2
Caelo	Viscous base solution (NRF p...	14187201	9
Caelo	Viscous base solution (NRF p...	1418730	2
Caelo	Viscous base solution (NRF p...	14187301	8
Caelo	Viscous base solution (NRF p...	14187501	1
Caelo	Viscous base solution (NRF p...	14187601	5
Caelo	Viscous base solution (NRF p...	14187701	2
Caelo	Viscous base solution (NRF p...	14187801	13
Caelo	Viscous base solution (NRF p...	14187901	4
Caelo	Viscous base solution (NRF p...	14188001	6
Caelo	Viscous base solution (NRF p...	14266101	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Viscous base solution (NRF p...	14266501	7
Caelo	Viscous base solution (NRF p...	14266601	2
Caelo	Viscous base solution (NRF p...	14354304	3
Caelo	Viscous base solution (NRF p...	14354401	5
Caelo	Viscous base solution (NRF p...	14354501	1
Caelo	Viscous base solution (NRF p...	14368401	6
Caelo	Viscous base solution (NRF p...	14368601	8
Caelo	Viscous base solution (NRF p...	14368701	3
Caelo	Viscous base solution (NRF p...	14368801	2
Caelo	Viscous base solution (NRF p...	1478319041301	1
Caelo	Viscous base solution (NRF p...	15031804	1
Caelo	Viscous base solution (NRF p...	15093301	10
Caelo	Viscous base solution (NRF p...	15093401	4
Caelo	Viscous base solution (NRF p...	15093501	2
Caelo	Viscous base solution (NRF p...	15093601	4
Caelo	Viscous base solution (NRF p...	15093602	4
Caelo	Viscous base solution (NRF p...	15093701	5
Caelo	Viscous base solution (NRF p...	15093801	2
Caelo	Viscous base solution (NRF p...	15105701	4
Caelo	Viscous base solution (NRF p...	15141601	2
Caelo	Viscous base solution (NRF p...	15141901	2
Caelo	Viscous base solution (NRF p...	15142001	1
Caelo	Viscous base solution (NRF p...	15179401	1
Caelo	Viscous base solution (NRF p...	15180101	4
Caelo	Viscous base solution (NRF p...	15196601	1
Caelo	Viscous base solution (NRF p...	15196701	2
Caelo	Viscous base solution (NRF p...	152364901	1
Caelo	Viscous base solution (NRF p...	15264801	8
Caelo	Viscous base solution (NRF p...	15264901	1
Caelo	Viscous base solution (NRF p...	15265001	1
Caelo	Viscous base solution (NRF p...	15265101	2
Caelo	Viscous base solution (NRF p...	15265201	4
Caelo	Viscous base solution (NRF p...	15265301	9
Caelo	Viscous base solution (NRF p...	15265401	11
Caelo	Viscous base solution (NRF p...	15265402	2
Caelo	Viscous base solution (NRF p...	15265501	7
Caelo	Viscous base solution (NRF p...	15265601	3
Caelo	Viscous base solution (NRF p...	15265701	10
Caelo	Viscous base solution (NRF p...	15265801	3
Caelo	Viscous base solution (NRF p...	15265901	8
Caelo	Viscous base solution (NRF p...	15389401	4
Caelo	Viscous base solution (NRF p...	15389501	2
Caelo	Viscous base solution (NRF p...	15389701	8
Caelo	Viscous base solution (NRF p...	15412101	2
Caelo	Viscous base solution (NRF p...	16081804	1
Caelo	Viscous base solution (NRF p...	16091702	1
Caelo	Viscous base solution (NRF p...	16107601	6
Caelo	Viscous base solution (NRF p...	16107901	2
Caelo	Viscous base solution (NRF p...	16108001	4
Caelo	Viscous base solution (NRF p...	16108101	1
Caelo	Viscous base solution (NRF p...	16108201	3
Caelo	Viscous base solution (NRF p...	16108301	3
Caelo	Viscous base solution (NRF p...	16108401	3
Caelo	Viscous base solution (NRF p...	16108501	3
Caelo	Viscous base solution (NRF p...	16108601	5
Caelo	Viscous base solution (NRF p...	16108701	1
Caelo	Viscous base solution (NRF p...	16108901	11
Caelo	Viscous base solution (NRF p...	16109001	1
Caelo	Viscous base solution (NRF p...	16159101	1
Caelo	Viscous base solution (NRF p...	16159401	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Viscous base solution (NRF p…	16217201	1
Caelo	Viscous base solution (NRF p…	16217301	9
Caelo	Viscous base solution (NRF p…	16217401	1
Caelo	Viscous base solution (NRF p…	16217501	3
Caelo	Viscous base solution (NRF p…	16217601	5
Caelo	Viscous base solution (NRF p…	16217602	12
Caelo	Viscous base solution (NRF p…	16229801	2
Caelo	Viscous base solution (NRF p…	16229901	14
Caelo	Viscous base solution (NRF p…	16230001	5
Caelo	Viscous base solution (NRF p…	16230101	1
Caelo	Viscous base solution (NRF p…	16265001	11
Caelo	Viscous base solution (NRF p…	16265101	4
Caelo	Viscous base solution (NRF p…	16265201	2
Caelo	Viscous base solution (NRF p…	16265301	2
Caelo	Viscous base solution (NRF p…	16265501	1
Caelo	Viscous base solution (NRF p…	16315201	5
Caelo	Viscous base solution (NRF p…	16315202	1
Caelo	Viscous base solution (NRF p…	16315301	13
Caelo	Viscous base solution (NRF p…	17017701	5
Caelo	Viscous base solution (NRF p…	17017801	7
Caelo	Viscous base solution (NRF p…	17017901	4
Caelo	Viscous base solution (NRF p…	17018001	2
Caelo	Viscous base solution (NRF p…	17023901	21
Caelo	Viscous base solution (NRF p…	17024001	2
Caelo	Viscous base solution (NRF p…	17041703	1
Caelo	Viscous base solution (NRF p…	17097801	4
Caelo	Viscous base solution (NRF p…	17097901	1
Caelo	Viscous base solution (NRF p…	17098101	16
Caelo	Viscous base solution (NRF p…	17098102	8
Caelo	Viscous base solution (NRF p…	17098302	2
Caelo	Viscous base solution (NRF p…	17098401	4
Caelo	Viscous base solution (NRF p…	17098501	1
Caelo	Viscous base solution (NRF p…	17138401	10
Caelo	Viscous base solution (NRF p…	17138501	2
Caelo	Viscous base solution (NRF p…	17138601	2
Caelo	Viscous base solution (NRF p…	17138701	6
Caelo	Viscous base solution (NRF p…	17138801	3
Caelo	Viscous base solution (NRF p…	17193501	7
Caelo	Viscous base solution (NRF p…	17193502	2
Caelo	Viscous base solution (NRF p…	17193505	1
Caelo	Viscous base solution (NRF p…	17193801	3
Caelo	Viscous base solution (NRF p…	17193901	2
Caelo	Viscous base solution (NRF p…	17194001	3
Caelo	Viscous base solution (NRF p…	17194101	3
Caelo	Viscous base solution (NRF p…	17194201	2
Caelo	Viscous base solution (NRF p…	17194301	1
Caelo	Viscous base solution (NRF p…	17194401	5
Caelo	Viscous base solution (NRF p…	17194501	1
Caelo	Viscous base solution (NRF p…	17194502	1
Caelo	Viscous base solution (NRF p…	1723001	1
Caelo	Viscous base solution (NRF p…	1723101	1
Caelo	Viscous base solution (NRF p…	17231201	11
Caelo	Viscous base solution (NRF p…	17231301	5
Caelo	Viscous base solution (NRF p…	17231401	5
Caelo	Viscous base solution (NRF p…	17231501	11
Caelo	Viscous base solution (NRF p…	17231510	1
Caelo	Viscous base solution (NRF p…	17231601	13
Caelo	Viscous base solution (NRF p…	17231701	7
Caelo	Viscous base solution (NRF p…	17231901	14
Caelo	Viscous base solution (NRF p…	17232001	16

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Viscous base solution (NRF p...	17232010	1
Caelo	Viscous base solution (NRF p...	17232101	23
Caelo	Viscous base solution (NRF p...	17289201	10
Caelo	Viscous base solution (NRF p...	17289301	3
Caelo	Viscous base solution (NRF p...	17289401	3
Caelo	Viscous base solution (NRF p...	17289501	1
Caelo	Viscous base solution (NRF p...	17290101	7
Caelo	Viscous base solution (NRF p...	177232001	1
Caelo	Viscous base solution (NRF p...	1789201	1
Caelo	Viscous base solution (NRF p...	18030601	21
Caelo	Viscous base solution (NRF p...	1803060137/18	1
Caelo	Viscous base solution (NRF p...	18030602	19
Caelo	Viscous base solution (NRF p...	18030701	1
Caelo	Viscous base solution (NRF p...	18030801	1
Caelo	Viscous base solution (NRF p...	18031101	5
Caelo	Viscous base solution (NRF p...	18031201	10
Caelo	Viscous base solution (NRF p...	18031301	8
Caelo	Viscous base solution (NRF p...	18031401	6
Caelo	Viscous base solution (NRF p...	18031501	5
Caelo	Viscous base solution (NRF p...	18071502	1
Caelo	Viscous base solution (NRF p...	18090601	2
Caelo	Viscous base solution (NRF p...	18124001	1
Caelo	Viscous base solution (NRF p...	18124201	1
Caelo	Viscous base solution (NRF p...	18124202	1
Caelo	Viscous base solution (NRF p...	18124301	10
Caelo	Viscous base solution (NRF p...	18124401	3
Caelo	Viscous base solution (NRF p...	18124402	6
Caelo	Viscous base solution (NRF p...	18124403	11
Caelo	Viscous base solution (NRF p...	18124501	25
Caelo	Viscous base solution (NRF p...	1814403	1
Caelo	Viscous base solution (NRF p...	18206101	4
Caelo	Viscous base solution (NRF p...	18206102	16
Caelo	Viscous base solution (NRF p...	18206201	26
Caelo	Viscous base solution (NRF p...	18206301	2
Caelo	Viscous base solution (NRF p...	18206602	6
Caelo	Viscous base solution (NRF p...	18206701	2
Caelo	Viscous base solution (NRF p...	18206801	4
Caelo	Viscous base solution (NRF p...	18206901	7
Caelo	Viscous base solution (NRF p...	18207001	5
Caelo	Viscous base solution (NRF p...	18267901	2
Caelo	Viscous base solution (NRF p...	18268001	7
Caelo	Viscous base solution (NRF p...	18268101	6
Caelo	Viscous base solution (NRF p...	18268201	2
Caelo	Viscous base solution (NRF p...	18268301	1
Caelo	Viscous base solution (NRF p...	18268401	1
Caelo	Viscous base solution (NRF p...	18268502	2
Caelo	Viscous base solution (NRF p...	18268601	33
Caelo	Viscous base solution (NRF p...	18268602	1
Caelo	Viscous base solution (NRF p...	18321001	8
Caelo	Viscous base solution (NRF p...	18321002	25
Caelo	Viscous base solution (NRF p...	18321101	4
Caelo	Viscous base solution (NRF p...	183211601	1
Caelo	Viscous base solution (NRF p...	18321201	3
Caelo	Viscous base solution (NRF p...	18321301	2
Caelo	Viscous base solution (NRF p...	18321401	1
Caelo	Viscous base solution (NRF p...	18321501	3
Caelo	Viscous base solution (NRF p...	18321601	1
Caelo	Viscous base solution (NRF p...	19000855001	2
Caelo	Viscous base solution (NRF p...	19000856001	2
Caelo	Viscous base solution (NRF p...	19000857001	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Viscous base solution (NRF p...	19011901	1
Caelo	Viscous base solution (NRF p...	19041201	22
Caelo	Viscous base solution (NRF p...	19041203	5
Caelo	Viscous base solution (NRF p...	19041301	20
Caelo	Viscous base solution (NRF p...	19041501	5
Caelo	Viscous base solution (NRF p...	19041601	3
Caelo	Viscous base solution (NRF p...	19041701	3
Caelo	Viscous base solution (NRF p...	19041709	1
Caelo	Viscous base solution (NRF p...	19041801	1
Caelo	Viscous base solution (NRF p...	19041901	3
Caelo	Viscous base solution (NRF p...	19042001	1
Caelo	Viscous base solution (NRF p...	19042101	5
Caelo	Viscous base solution (NRF p...	19192401	4
Caelo	Viscous base solution (NRF p...	19192901	3
Caelo	Viscous base solution (NRF p...	19193001	3
Caelo	Viscous base solution (NRF p...	19193101	3
Caelo	Viscous base solution (NRF p...	19193201	3
Caelo	Viscous base solution (NRF p...	19193301	3
Caelo	Viscous base solution (NRF p...	19193401	4
Caelo	Viscous base solution (NRF p...	19223101	16
Caelo	Viscous base solution (NRF p...	19258301	14
Caelo	Viscous base solution (NRF p...	19258302	17
Caelo	Viscous base solution (NRF p...	19258401	13
Caelo	Viscous base solution (NRF p...	19258501	15
Caelo	Viscous base solution (NRF p...	19258701	3
Caelo	Viscous base solution (NRF p...	19258901	2
Caelo	Viscous base solution (NRF p...	19259001	2
Caelo	Viscous base solution (NRF p...	19528302	2
Caelo	Viscous base solution (NRF p...	200000004001	1
Caelo	Viscous base solution (NRF p...	20000004001	15
Caelo	Viscous base solution (NRF p...	20000004001(4)	1
Caelo	Viscous base solution (NRF p...	20000004002	15
Caelo	Viscous base solution (NRF p...	20000005001	1
Caelo	Viscous base solution (NRF p...	20000006001	1
Caelo	Viscous base solution (NRF p...	20000008001	5
Caelo	Viscous base solution (NRF p...	20000009001	2
Caelo	Viscous base solution (NRF p...	20000010001	7
Caelo	Viscous base solution (NRF p...	20000011001	2
Caelo	Viscous base solution (NRF p...	20000011101	1
Caelo	Viscous base solution (NRF p...	20000012001	3
Caelo	Viscous base solution (NRF p...	20000013001	5
Caelo	Viscous base solution (NRF p...	200000182001	1
Caelo	Viscous base solution (NRF p...	20000142001	12
Caelo	Viscous base solution (NRF p...	20000143001	1
Caelo	Viscous base solution (NRF p...	20000144001	1
Caelo	Viscous base solution (NRF p...	20000183001	1
Caelo	Viscous base solution (NRF p...	20000184001	1
Caelo	Viscous base solution (NRF p...	20001916001	2
Caelo	Viscous base solution (NRF p...	20001917001	2
Caelo	Viscous base solution (NRF p...	20001918001	3
Caelo	Viscous base solution (NRF p...	20001919001	4
Caelo	Viscous base solution (NRF p...	20001920001	2
Caelo	Viscous base solution (NRF p...	20001921001	1
Caelo	Viscous base solution (NRF p...	20001922001	15
Caelo	Viscous base solution (NRF p...	20001923001	6
Caelo	Viscous base solution (NRF p...	20001923001(/1)	1
Caelo	Viscous base solution (NRF p...	20001923001(3)	1
Caelo	Viscous base solution (NRF p...	20001923002	8
Caelo	Viscous base solution (NRF p...	20001923003	4
Caelo	Viscous base solution (NRF p...	20002922001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Viscous base solution (NRF p...	20003321001	2
Caelo	Viscous base solution (NRF p...	20003322001	3
Caelo	Viscous base solution (NRF p...	20003323001	2
Caelo	Viscous base solution (NRF p...	200033234001	1
Caelo	Viscous base solution (NRF p...	20003324001	2
Caelo	Viscous base solution (NRF p...	20003325001	3
Caelo	Viscous base solution (NRF p...	20003325002	2
Caelo	Viscous base solution (NRF p...	2001921001	1
Caelo	Viscous base solution (NRF p...	2001923001	1
Caelo	Viscous base solution (NRF p...	20033252002	1
Caelo	Viscous base solution (NRF p...	20081501	1
Caelo	Viscous base solution (NRF p...	20101802	1
Caelo	Viscous base solution (NRF p...	20180528-01P	1
Caelo	Viscous base solution (NRF p...	20250113-1	1
Caelo	Viscous base solution (NRF p...	21000456001	1
Caelo	Viscous base solution (NRF p...	21000457001	1
Caelo	Viscous base solution (NRF p...	21000458001	2
Caelo	Viscous base solution (NRF p...	21000460001	2
Caelo	Viscous base solution (NRF p...	21000461001	2
Caelo	Viscous base solution (NRF p...	21000462001	1
Caelo	Viscous base solution (NRF p...	21000463001	4
Caelo	Viscous base solution (NRF p...	21000466001	6
Caelo	Viscous base solution (NRF p...	21000680001	2
Caelo	Viscous base solution (NRF p...	21000680001(5)	1
Caelo	Viscous base solution (NRF p...	21000680002	8
Caelo	Viscous base solution (NRF p...	21000680003	1
Caelo	Viscous base solution (NRF p...	21001316001	1
Caelo	Viscous base solution (NRF p...	21001318001	2
Caelo	Viscous base solution (NRF p...	21001319001	1
Caelo	Viscous base solution (NRF p...	21001320001	1
Caelo	Viscous base solution (NRF p...	21001804001	1
Caelo	Viscous base solution (NRF p...	21001806001	2
Caelo	Viscous base solution (NRF p...	21001807001	1
Caelo	Viscous base solution (NRF p...	21001808001	1
Caelo	Viscous base solution (NRF p...	21002614001	1
Caelo	Viscous base solution (NRF p...	21002617001	2
Caelo	Viscous base solution (NRF p...	21002619001	3
Caelo	Viscous base solution (NRF p...	21002883001	2
Caelo	Viscous base solution (NRF p...	21004136001	1
Caelo	Viscous base solution (NRF p...	21004137001	1
Caelo	Viscous base solution (NRF p...	21004139001	1
Caelo	Viscous base solution (NRF p...	2100807001	1
Caelo	Viscous base solution (NRF p...	21081704	1
Caelo	Viscous base solution (NRF p...	22121809	1
Caelo	Viscous base solution (NRF p...	23061811	1
Caelo	Viscous base solution (NRF p...	24000463001	1
Caelo	Viscous base solution (NRF p...	25041801	1
Caelo	Viscous base solution (NRF p...	26051801	1
Caelo	Viscous base solution (NRF p...	27121703	1
Caelo	Viscous base solution (NRF p...	3013A-03142	1
Caelo	Viscous base solution (NRF p...	3x14058901	1
Caelo	Viscous base solution (NRF p...	4111704	1
Caelo	Viscous base solution (NRF p...	5(17138401)	1
Caelo	Viscous base solution (NRF p...	5051502	1
Caelo	Viscous base solution (NRF p...	6(17193501)	1
Caelo	Viscous base solution (NRF p...	6101705	1
Caelo	Viscous base solution (NRF p...	7(18124501)	1
Caelo	Viscous base solution (NRF p...	7111803	1
Caelo	Viscous base solution (NRF p...	8(18268601)	1
Caelo	Viscous base solution (NRF p...	8091809	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Viscous base solution (NRF p...	9(19041301)	1
Caelo	Viscous base solution (NRF p...	AP200721-02	1
Caelo	Viscous base solution (NRF p...	P-09121923/19193201	1
Caeolo/Gehe	Viscous base solution (NRF p...	17194101	1
Caesar & Loretz GmbH /...	Viscous base solution (NRF p...	21001804001	1
Caesar & Loretz GmbH / ...	Viscous base solution (NRF p...	18321301	2
Caesar & Loretz GmbH / ...	Viscous base solution (NRF p...	18321601	1
Caesar & Loretz GmbH / ...	Viscous base solution (NRF p...	19041601	2
Caesar & Loretz GmbH / ...	Viscous base solution (NRF p...	20000144002	2
Caesar & Loretz GmbH /P...	Viscous base solution (NRF p...	21001805001	3
Caesar & Loretz GmbH/ G...	Viscous base solution (NRF p...	21001321001	1
Caesar & Loretz GmbH/Gehe	Viscous base solution (NRF p...	20000011001	1
Caesar & Loretz GmbH/Gehe	Viscous base solution (NRF p...	20001919001	1
Caesar & Loretz GmbH/GEHE	Viscous base solution (NRF p...	20001923002	1
Caesar & Loretz GmbH/Gehe	Viscous base solution (NRF p...	21000458001	1
Caesar & Loretz GmbH/Gehe	Viscous base solution (NRF p...	21000460001	2
Caesar & Loretz GmbH/Gehe	Viscous base solution (NRF p...	21004134001	1
Caesar & Loretz GmbH/Ge...	Viscous base solution (NRF p...	19258501	1
Caesar & Loretz GmbH/Ge...	Viscous base solution (NRF p...	20000142001	3
Caesar & Loretz GmbH/He...	Viscous base solution (NRF p...	19258302	1
Caesar & Loretz GmbH/Je...	Viscous base solution (NRF p...	20003321001	1
Caesar & Loretz GmbH/No...	Viscous base solution (NRF p...	20000004002	2
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	20001922001	3
Caesar & Loretz GmbH/Phoe	Viscous base solution (NRF p...	21000680003	1
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	20000142001	1
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	21001806001	1
Caesar & Loretz GmbH/Phon	Viscous base solution (NRF p...	20001923002	1
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	190008570	2
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	19193101	6
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	20000013	1
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	200000130	1
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	20000181001	1
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	20000184001	1
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	21000463001	2
Caesar & Loretz GmbH/Ph...	Viscous base solution (NRF p...	21002612001	2
Caesar & Loretz GmbH/Sana	Viscous base solution (NRF p...	18321501	2
Caesar & Loretz GmbH/Sana	Viscous base solution (NRF p...	19041701	2
Caesar & Loretz GmbH/Sana	Viscous base solution (NRF p...	19041801	1
Caesar & Loretz GmbH/Sana	Viscous base solution (NRF p...	20000008001	2
Caesar & Loretz GmbH/Sa...	Viscous base solution (NRF p...	18268201	3
Caesar & Loretz GmbH/sa...	Viscous base solution (NRF p...	19000856	1
Caesar & Loretz GmbH/Sa...	Viscous base solution (NRF p...	20000183001	2
Caesar & Loretz GmbH/Sa...	Viscous base solution (NRF p...	20003322001	2
Caesar & Loretz GmbH/Sa...	Viscous base solution (NRF p...	21002614001	1
Caesar & Loretz GmbH/Sa...	Viscous base solution (NRF p...	21002617001	1
Caesar & Loretz GmbH/Sa...	Viscous base solution (NRF p...	21002618001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p...	13158201	1
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18206102	1
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18206602	4
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18267901	1
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18268201	2
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18268502	1
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18268601	2
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18321001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18321002	5
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18321201	2
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18321301	5
Caesar & Loretz GmbH	Viscous base solution (NRF p...	18321501	1
Caesar & Loretz GmbH	Viscous base solution (NRF p...	19000855001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p...	19000856001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19041301	7
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19041701	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19041801	4
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19042001	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19192401	5
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19193001	4
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19193401	4
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19193901	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19223101	3
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19258301	5
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19258302	6
Caesar & Loretz GmbH	Viscous base solution (NRF p…	192584	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19258401	11
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19258501	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19258601	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19258701	3
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19258901	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	19259001	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000004001	3
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000004002	4
CAESAR & LORETZ GMBH	Viscous base solution (NRF p…	20000004002	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000008001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000009001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000011001	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000012001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000013001	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000142001	5
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000181001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20000184001	3
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20001916001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20001917001	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20001920001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20001922001	9
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20001923001	7
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20001923002	4
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20003324001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	20003325002	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21000456001	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21000458001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21000465001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21000466001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21000680001	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21000680002	4
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21000680003	3
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21001316001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21001320001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21001801001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21001805001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21001806001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21001808001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21002611002	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21002616001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21002618001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21002619001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21002883001	3
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21004133001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21004136001	2
Caesar & Loretz GmbH	Viscous base solution (NRF p…	21004140001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	22000614001	1
Caesar & Loretz GmbH	Viscous base solution (NRF p…	22000615001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Viscous base solution (NRF p...	22000616002	1
Caesar & Loretz	Viscous base solution (NRF p...	17098101	1
Caesar u. Loretz / Gehe...	Viscous base solution (NRF p...	19041301	1
Caesar und Loretz	Viscous base solution (NRF p...	14109401	1
Caesar&Loretz GmbH	Viscous base solution (NRF p...	15265701	1
Caesar&Loretz GmbH	Viscous base solution (NRF p...	16107601	3
Caesar&Loretz GmbH	Viscous base solution (NRF p...	16108901	1
Caesar&Loretz GmbH	Viscous base solution (NRF p...	16217301	1
Caesar&Loretz GmbH	Viscous base solution (NRF p...	16229701	1
Caleo/Noveda	Viscous base solution (NRF p...	21000680001	1
Caleo/Phoenix	Viscous base solution (NRF p...	21002612001	2
Caleo/Phoenix	Viscous base solution (NRF p...	21004136001	1
Caleo/Phönix	Viscous base solution (NRF p...	14368701	1
Cealo/ Anzag	Viscous base solution (NRF p...	17098101	1
Cealo/ Phoenix	Viscous base solution (NRF p...	18124501	1
Cealo	Viscous base solution (NRF p...	17098302	1
Defektur Bahnhof Apotheke	Viscous base solution (NRF p...	160630007	1
Defektur Bahnhof Apotheke	Viscous base solution (NRF p...	160630008	1
Defektur Bahnhof Apotheke	Viscous base solution (NRF p...	160718007	1
Defektur Bahnhof Apotheke	Viscous base solution (NRF p...	160719002	1
Defektur Bahnhof Apotheke	Viscous base solution (NRF p...	160805001	1
Defektur Bahnhof Apotheke	Viscous base solution (NRF p...	160805002	1
Ebert & Jacobi	Viscous base solution (NRF p...	18124501	1
Eigenherstellung	Viscous base solution (NRF p...	421A-03142	1
Eigenherstellung	Viscous base solution (NRF p...	5320A-03142	1
Euro OTC	Viscous base solution (NRF p...	15141601	1
Euro OTC	Viscous base solution (NRF p...	16159501	1
Euro OTC	Viscous base solution (NRF p...	17231801	1
Euro OTC	Viscous base solution (NRF p...	17232001	1
Fagron	Viscous base solution (NRF p...	10031502	1
Fagron	Viscous base solution (NRF p...	1111F001	1
Fagron	Viscous base solution (NRF p...	1111F003	1
Fagron	Viscous base solution (NRF p...	1203C004	2
Fagron	Viscous base solution (NRF p...	1206F003	3
Fagron	Viscous base solution (NRF p...	1214509	1
Fagron	Viscous base solution (NRF p...	1301F001	1
Fagron	Viscous base solution (NRF p...	1301F002	1
Fagron	Viscous base solution (NRF p...	1301F003	3
Fagron	Viscous base solution (NRF p...	1302F002	1
Fagron	Viscous base solution (NRF p...	1310F006	1
Fagron	Viscous base solution (NRF p...	13J22-T05-007720	1
Fagron	Viscous base solution (NRF p...	13J22-T05-007729	2
Fagron	Viscous base solution (NRF p...	14059001	2
Fagron	Viscous base solution (NRF p...	1409164	2
Fagron	Viscous base solution (NRF p...	14K24-021166	1
Fagron	Viscous base solution (NRF p...	14K24-T03-021166	1
Fagron	Viscous base solution (NRF p...	14K24-T03-031283	9
Fagron	Viscous base solution (NRF p...	1509255	2
Fagron	Viscous base solution (NRF p...	15093701	1
Fagron	Viscous base solution (NRF p...	1604682	4
Fagron	Viscous base solution (NRF p...	16159501	1
Fagron	Viscous base solution (NRF p...	1705701	2
Fagron	Viscous base solution (NRF p...	1705702	2
Fagron	Viscous base solution (NRF p...	17098302	1
Fagron	Viscous base solution (NRF p...	1802062	1
Fagron	Viscous base solution (NRF p...	1802063	1
Fagron	Viscous base solution (NRF p...	18030601	7
Fagron	Viscous base solution (NRF p...	1813226/1	1
Fagron	Viscous base solution (NRF p...	1813226/2	2
Fagron	Viscous base solution (NRF p...	1813227	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Viscous base solution (NRF p...	1820601	1
Fagron	Viscous base solution (NRF p...	18268001	1
Fagron	Viscous base solution (NRF p...	18268601	1
Fagron	Viscous base solution (NRF p...	1906667	2
Fagron	Viscous base solution (NRF p...	20004752	3
Fagron	Viscous base solution (NRF p...	20011969	2
Fagron	Viscous base solution (NRF p...	22041304	1
Fagron	Viscous base solution (NRF p...	28111402	1
Fagron	Viscous base solution (NRF p...	31101205	1
Fishar	Viscous base solution (NRF p...	15265401	1
Gehe 19.12.14	Viscous base solution (NRF p...	14187601	1
GEHE am 27.05.2014	Viscous base solution (NRF p...	14020502	1
Gehe/Caesar & Loretz GmbH	Viscous base solution (NRF p...	21002619001	1
Gehe	Viscous base solution (NRF p...	12019201	1
gehe	Viscous base solution (NRF p...	17097801	1
Gehe	Viscous base solution (NRF p...	17098101	1
gehe	Viscous base solution (NRF p...	17194101	1
gehe	Viscous base solution (NRF p...	17194401	2
Gehe	Viscous base solution (NRF p...	18030601	1
Gutenberg-Apotheke	Viscous base solution (NRF p...	14020502	1
Gutenberg-Apotheke	Viscous base solution (NRF p...	14059101	2
Herstellung	Viscous base solution (NRF p...	131018001	1
Herstellung	Viscous base solution (NRF p...	131018004	1
Herstellung	Viscous base solution (NRF p...	131025001	1
Herstellung	Viscous base solution (NRF p...	131030004	1
Herstellung	Viscous base solution (NRF p...	131030005	1
Herstellung	Viscous base solution (NRF p...	131115001	1
Herstellung	Viscous base solution (NRF p...	131126002	1
Herstellung	Viscous base solution (NRF p...	131203012	1
Herstellung	Viscous base solution (NRF p...	131206001	1
Herstellung	Viscous base solution (NRF p...	131211001	1
Herstellung	Viscous base solution (NRF p...	131211002	1
Herstellung	Viscous base solution (NRF p...	131218006	1
Herstellung	Viscous base solution (NRF p...	131220001	1
Herstellung	Viscous base solution (NRF p...	140108002	1
Herstellung	Viscous base solution (NRF p...	140108003	1
Herstellung	Viscous base solution (NRF p...	140117001	1
Herstellung	Viscous base solution (NRF p...	20010213-1	1
Herstellung	Viscous base solution (NRF p...	20030513-1	1
Herstellung	Viscous base solution (NRF p...	20040113-1	1
Herstellung	Viscous base solution (NRF p...	20040113-2	1
Herstellung	Viscous base solution (NRF p...	20041013-1	1
Herstellung	Viscous base solution (NRF p...	20050613-1	1
Herstellung	Viscous base solution (NRF p...	20050713-1	1
Herstellung	Viscous base solution (NRF p...	20050713-2	1
Herstellung	Viscous base solution (NRF p...	20060913-1	1
Herstellung	Viscous base solution (NRF p...	20060913-2	1
Herstellung	Viscous base solution (NRF p...	20080213-1	1
Herstellung	Viscous base solution (NRF p...	20080313-1	1
Herstellung	Viscous base solution (NRF p...	20090113-1	2
Herstellung	Viscous base solution (NRF p...	20100513-1	1
Herstellung	Viscous base solution (NRF p...	20100613-1	1
Herstellung	Viscous base solution (NRF p...	20120713-1	1
Herstellung	Viscous base solution (NRF p...	20130313-1	1
Herstellung	Viscous base solution (NRF p...	20130613-1	1
Herstellung	Viscous base solution (NRF p...	20140613-1	1
Herstellung	Viscous base solution (NRF p...	20150213-1	1
Herstellung	Viscous base solution (NRF p...	20150813-3	1
Herstellung	Viscous base solution (NRF p...	20150813-4	1
Herstellung	Viscous base solution (NRF p...	20160513-2	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Herstellung	Viscous base solution (NRF p...	20190413-1	1
Herstellung	Viscous base solution (NRF p...	20190413-2	1
Herstellung	Viscous base solution (NRF p...	20200913-1	1
Herstellung	Viscous base solution (NRF p...	20210313-1	1
Herstellung	Viscous base solution (NRF p...	20210313-2	1
Herstellung	Viscous base solution (NRF p...	20220213-1	1
Herstellung	Viscous base solution (NRF p...	20220213-2	1
Herstellung	Viscous base solution (NRF p...	20220513-2	1
Herstellung	Viscous base solution (NRF p...	20260313-1	1
Herstellung	Viscous base solution (NRF p...	20260313-2	1
Herstellung	Viscous base solution (NRF p...	20260713-1	1
Herstellung	Viscous base solution (NRF p...	20260713-2	1
Herstellung	Viscous base solution (NRF p...	20270913-2	1
Herstellung	Viscous base solution (NRF p...	20280513-1	1
Herstellung	Viscous base solution (NRF p...	20280613-1	1
Herstellung	Viscous base solution (NRF p...	20280613-2	1
Herstellung	Viscous base solution (NRF p...	20300713-2	1
Herstellung	Viscous base solution (NRF p...	2030913-1	1
Herstellung	Viscous base solution (NRF p...	2150313-1	1
Herstellung	Viscous base solution (NRF p...	240114	1
Jenne	Viscous base solution (NRF p...	16108901	1
Klosterring	Viscous base solution (NRF p...	17098102	1
Klosterring	Viscous base solution (NRF p...	17138401	2
Klosterring	Viscous base solution (NRF p...	19098302	1
Klosterring	Viscous base solution (NRF p...	19223101	6
Nachprüfung	Viscous base solution (NRF p...	13158001	1
Noweda	Viscous base solution (NRF p...	11176201	1
Noweda	Viscous base solution (NRF p...	12019401	1
Noweda	Viscous base solution (NRF p...	12093601	2
Noweda	Viscous base solution (NRF p...	17098101	4
Noweda	Viscous base solution (NRF p...	18206102	1
Noweda	Viscous base solution (NRF p...	18321002	1
Noweda	Viscous base solution (NRF p...	19223101	1
Phoenix 08.07.2014	Viscous base solution (NRF p...	14110001	1
Phoenix	Viscous base solution (NRF p...	17098101	2
Phoenix	Viscous base solution (NRF p...	18030601	2
Phoenix	Viscous base solution (NRF p...	20001922001	1
Phoenix	Viscous base solution (NRF p...	20003325002	1
PHÖNIX	Viscous base solution (NRF p...	17232001	2
Phönix	Viscous base solution (NRF p...	18030601	1
Phönix	Viscous base solution (NRF p...	20000184001	1
Post Apotheke	Viscous base solution (NRF p...	219I-03142	1
Post Apotheke	Viscous base solution (NRF p...	2220I-03142	1
Post Apotheke	Viscous base solution (NRF p...	4720-03142	1
Post Aptotheke	Viscous base solution (NRF p...	1306F002	2
Sanacorp, 22.02.17, 32,...	Viscous base solution (NRF p...	16265101	1
sanacorp, 32,14EUR, 15.09...	Viscous base solution (NRF p...	16108601	1
Sanacorp	Viscous base solution (NRF p...	12127401	2
Sanacorp	Viscous base solution (NRF p...	12231301	4
Sanacorp	Viscous base solution (NRF p...	14109402	1
Sanacorp	Viscous base solution (NRF p...	15265201	1
Sanacorp	Viscous base solution (NRF p...	15265401	1
Sanacorp	Viscous base solution (NRF p...	15265601	1
Sanacorp	Viscous base solution (NRF p...	18268601	1
Sanacorp	Viscous base solution (NRF p...	19041203	1
Sonnenberg Apotheke	Viscous base solution (NRF p...	150616	1
Sonnenberg Apotheke	Viscous base solution (NRF p...	220616	1
Sonnenberg Apotheke	Viscous base solution (NRF p...	270515	1
Sonnenberg Apotheke	Viscous base solution (NRF p...	300615	1
Sonnenberg Apotheke	Viscous base solution (NRF p...	30216	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Sonnenberg Apotheke	Viscous base solution (NRF p...	71015	1
Sonnenberg Apotheke	Viscous base solution (NRF p...	90915	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	100214	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	100314	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	100715	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	100914	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	10814	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	110116	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	110516	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	110614	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	111114	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	111115	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	11214	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	121016	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	130416	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	131014	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	160316	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	160415	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	161215	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	2012015	2
Sonnenberg-Apotheke	Viscous base solution (NRF p...	20516	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	211216	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	220216	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	230315	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	231116	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	250215	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	250716	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	260115	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	261016	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	280916	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	290716	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	290716-2	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	40117	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	60114	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	70514	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	70916	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	71216	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	90414	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	90714	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	91116	1
Sonnenberg-Apotheke	Viscous base solution (NRF p...	91213	1
VDL 17.10.14	Viscous base solution (NRF p...	14109401	1
VDL 24.05.14	Viscous base solution (NRF p...	14020401	2

- 295 307 spectra from 1324 *Apo-Ident* customers from a total of 52 402 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Viscous base solution (NRF p. 20)* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Viscous base solution (NRF p. 20)* and it was evaluated how many matches (positive) and rejections (negative) were correct

or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	1160	0	67 339
Type B	0	3140	0	108 173
Type C	0	2142	9	295 307

The substance/substance group *Viscous base solution (NRF p. 20)* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.4828 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.8089 %)
Type C	100.0000 % (> 99.6875 %)	99.5816 % (> 99.4421 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Viscous base solution (NRF p. 20)* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Liquorice juice purified, diluted	15.91	–
Lotio Cordes®	16.89	–
Raspberry syrup (conserved)	20.01	–
Chest elixir	21.92	–
Fortified wine	24.48	–
Condurango wine	24.96	–
Gel basis Audor®	25.21	–
Marshmallow syrup (conserved)	27.36	–
Ribwort plantain syrup (conserved)	27.70	–
Hydrophilic base emulsion (NRF p.25)	32.81	–
Sugar syrup DAB	35.56	–
Cherry syrup (conserved)	40.36	–
Sodium-(s)-lactate solution 50%	41.23	–
Polyhexanide solution 20%	42.30	–
Ipecacuanha syrup (NRF 19.1)	45.32	–
Chlorhexidine digluconate solution	48.33	–
Water	53.31	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Viscous base solution (NRF p. 20)* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30659	30659	0.00	20.66
31354	31888	2.02	16.51
31658	31658	0.00	18.57
31790	31888	3.02	20.87
31882	31882	0.00	19.19
31883	31883	0.00	20.38
31884	31884	0.00	18.87
31885	31885	0.00	19.20
31886	31886	0.00	18.66
31887	31887	0.00	20.36
31888	31888	0.00	20.43
31889	31889	0.00	18.97
31890	31890	0.00	21.53
31893	31893	0.00	21.06
31894	31894	0.00	19.02
31895	31895	0.00	20.75
31896	31896	0.00	19.73
34775	34775	0.00	20.44
35483	35483	0.00	15.32
35484	35484	0.00	16.07
35975	35975	0.00	19.30

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Water and aqueous solutions**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30869-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Water and aqueous solutions; Aluminii acetatis tartratis solutio; Aluminium acetotartrate solution; Aqua; Chlorhexidine digluconate solution; Chlorhexidini digluconatis solutio; Oral suspension base; Water

Special notes

When selecting the *Water and aqueous solutions* substance/substance group, the following information is displayed to the user:

- Advice for the identification of water: Preserved, purified and distilled water can not be conclusively distinguished by spectral analysis. An additional analysis of identity may be required.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Water and aqueous solutions	30	71	2333

Second-stage model

For differentiation of the substance/substance group *Water and aqueous solutions* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Water and aqueous solutions*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Aluminium acetot...	12233502	30869	40	20120810
Caelo	Aluminium acetot...	13378704	31342	40	AR-14-FG-012698-01
Caelo	Aluminium acetot...	15299901	31959	60	20151001
Caelo	Aluminium acetot...	21002881005	35822	50	20210921
Hedinger	Aluminium acetot...	020160B	32921	40	20150818
Hedinger	Aluminium acetot...	020165B	34690	40	20180903
Caelo	Chlorhexidine di...	14011009	31463	60	AR-15-FG-010164-03
Caelo	Chlorhexidine di...	15131504	31705	60	20150424
Caelo	Chlorhexidine di...	15292508	32308	40	20151109
Euro OTC	Chlorhexidine di...	1508022	31735	60	20150916*
Euro OTC	Chlorhexidine di...	1511039	31846	60	20160114*
Euro OTC	Chlorhexidine di...	1511033-01	32732	40	20160114
Euro OTC	Chlorhexidine di...	1610021	32831	40	20161121*
Euro OTC	Chlorhexidine di...	1610022	32832	40	20161121*
Fagron	Chlorhexidine di...	13H19-B01	31240	30	20130906
Fagron	Chlorhexidine di...	15I03-B02-315213	31829	45	20151027
Caelo	Oral suspension ...	20001875	35112	40	20200805*
Caelo	Oral suspension ...	20003180	35163	40	20201116*
Caelo	Oral suspension ...	21000759	35315	40	20210308*
Caelo	Oral suspension ...	21001227	35555	50	20210518*
Caelo	Oral suspension ...	21001228	35556	50	20210518*
Caelo	Oral suspension ...	21002023	35599	50	20210629*
Caelo	Water	13176101	31057	40	20130627
Caelo	Water	14253301	31624	60	20140923
Caelo	Water	15142501	31718	60	1510212
Caelo	Water	161975	32354	30	20160725*
Caelo	Water	20002379	35113	40	20200814*
Caelo	Water	21001791	35539	50	20210607*
Fagron	Water	14K05-T02-016775	31676	60	20150225
Fagron	Water	15D01-C20-16500	31809	60	20151105

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 1415 spectra of 30 reference samples from the substance/substance group *Water and aqueous solutions*. These samples are listed above in the *calibration samples* section. The reference samples come from 30 different batches.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 67 084 spectra from a total of 1383 batches from further 225 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 2670 spectra of 71 reference samples from the substance/substance group *Water and aqueous solutions*.

- Among them are spectra of independent samples from 71 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Aluminium acetotartrate solu…	16004505	33490	40
Caelo	Aluminium acetotartrate solu…	21002880	35821	50
Hedinger	Aluminium acetotartrate solu…	020166B	35262	40
Caelo	Chlorhexidine digluconate so…	163088	33089	40
Caelo	Chlorhexidine digluconate so…	172101	33693	40
Caelo	Chlorhexidine digluconate so…	190808	34470	40
Caelo	Chlorhexidine digluconate so…	192972	34762	40
Caelo	Chlorhexidine digluconate so…	20003241	35252	40
Caelo	Chlorhexidine digluconate so…	21000177	35302	40
Caelo	Chlorhexidine digluconate so…	21001487	35550	60
Euro OTC	Chlorhexidine digluconate so…	1701037	33230	40
Euro OTC	Chlorhexidine digluconate so…	1708006	33843	40
Euro OTC	Chlorhexidine digluconate so…	1712002	33927	40
Euro OTC	Chlorhexidine digluconate so…	1807014	34191	40
Euro OTC	Chlorhexidine digluconate so…	1811026	34351	40
Euro OTC	Chlorhexidine digluconate so…	1902010	34425	40
Euro OTC	Chlorhexidine digluconate so…	1908014	34695	40
Euro OTC	Chlorhexidine digluconate so…	1912015	34811	40
Euro OTC	Chlorhexidine digluconate so…	2007044	35085	40
Euro OTC	Chlorhexidine digluconate so…	2108001	35763	50
Euro OTC	Chlorhexidine digluconate so…	2202002	36225	40
Caelo	Oral suspension base	20003178	35162	40
Caelo	Oral suspension base	21000757	35313	40
Caelo	Oral suspension base	21000758	35314	40
Caelo	Oral suspension base	21002200	35600	50
Caelo	Oral suspension base	21003881	35952	40
Caelo	Oral suspension base	22001531	36458	40
Caelo	Oral suspension base	22001532	36459	10
Caelo	Oral suspension base	22001533	36460	40
Caelo	Oral suspension base	22001343	36461	40
Caelo	Oral suspension base	22001983	36462	40
Caelo	Oral suspension base	22001984	36463	10
Caelo	Water	153714	32080	40
Caelo	Water	153945	32082	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Water	162119	32353	40
Caelo	Water	162230	32355	40
Caelo	Water	163133	32893	40
Caelo	Water	162554	32894	40
Caelo	Water	170020	33178	40
Caelo	Water	170324	33179	40
Caelo	Water	171731	33575	40
Caelo	Water	171451	33576	40
Caelo	Water	171773	33577	40
Caelo	Water	172534	33738	40
Caelo	Water	172535	33739	40
Caelo	Water	172532	33740	40
Caelo	Water	170988	33976	40
Caelo	Water	172958	33979	40
Caelo	Water	180004	34135	40
Caelo	Water	181355	34138	40
Caelo	Water	181951	34240	40
Caelo	Water	181352	34241	40
Caelo	Water	182287	34242	40
Caelo	Water	182399	34245	40
Caelo	Water	182288	34315	40
Caelo	Water	191967	34766	40
Caelo	Water	192270	34768	40
Caelo	Water	21001790	35540	50
Caelo	Water	21001792	35541	50
Caelo	Water	21003471	35987	40
Caelo	Water	21003474	35990	10
Caelo	Water	21004055	35991	40
Caelo	Water	22000148	36151	40
Caelo	Water	22000149	36152	10
Caelo	Water	22001338	36448	40
Caelo	Water	22001339	36449	10
Caelo	Water	22001340	36450	10
Caelo	Water	22001341	36451	10
Caelo	Water	22001342	36452	10
Caelo	Water	22001966	36453	40
Fagron	Water	16K25-C20-17409	32963	40

- 108 643 spectra from a total of 2595 batches from further 347 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 13 066 spectra from 1169 *Apo-Ident* customers from 2445 batches from the substance/substance group *Water and aqueous solutions*.

- Among them are spectra of independent samples from 2320 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Spectra
	Chlorhexidine digluconate so...	1308002-02	1
	Chlorhexidine digluconate so...	13K26B06289365	1
18c05-b04-352123	Chlorhexidine digluconate so...	17210105	1
A. Hedinger/Noweda	Aluminium acetotartrate solu...	201628	1
AEP/Krieger	Water	20001119001	1
aetenstaedt GmbH-AHD	Aluminium acetotartrate solu...	190036	1
AHD 08.04.20	Chlorhexidine digluconate so...	1912015-01	1
AHD 10.07.2020	Water	20001293001	1
AHD/28.09.20 EK: 11,93EUR	Water	20C17-T19-077613	2
AHD/Hedinger	Aluminium acetotartrate solu...	20159B	1
AHD	Chlorhexidine digluconate so...	1206023-02	3
AHD	Chlorhexidine digluconate so...	12114012	1
AHD	Chlorhexidine digluconate so...	13136115	1
AHD	Chlorhexidine digluconate so...	17210112	1
AHD	Chlorhexidine digluconate so...	1811026-01	1
AHD	Water	18156201	1
AHD	Chlorhexidine digluconate so...	18215601	1
AHD	Chlorhexidine digluconate so...	18215610	1
AHD	Aluminium acetotartrate solu...	201628	1
AHD	Aluminium acetotartrate solu...	20162B	1
AHD	Aluminium acetotartrate solu...	20164B	1
AHD	Water	20C17-T19-077613	1
AHD	Water	20C19-T13-077809	1
AHL	Water	17291301	2
ALH	Chlorhexidine digluconate so...	1610021-01	1
Aliiance Healthcare	Water	191119	1
Alliance Healthcare	Chlorhexidine digluconate so...	1206023	1
Alliance Healthcare	Aluminium acetotartrate solu...	12318705	2
Alliance Healthcare	Water	19D01-T11-065565	1
Alliance Healthcare	Water	19F27-T12-068906	2
Alliance Healthcare	Water	19J14-T06-072685	1
Alliance Healthcare	Water	20C31-T19-078892	1
Alliance Healthcare	Water	20F16-T06-081160	2
Alliance	Chlorhexidine digluconate so...	11811026	1
Allianz Healthcare	Chlorhexidine digluconate so...	1721110	1
Allianz Healthcare	Water	LOTAPsp0004	1
Allianz Healthcare	Water	LOTAPSP0005	1
Alte Apotheke	Water	16022202	1
Alte Apotheke	Water	16223601	1
Anzag 17.04.13 ek: 5,43EUR	Aluminium acetotartrate solu...	20152B	1
Anzag/ Hedinger	Aluminium acetotartrate solu...	20153B	1
Anzag/	Aluminium acetotartrate solu...	20151B	1
Anzag/23.12.19	Water	LOTAP-SP0006	1
Anzag/Anzag 31.08.18	Water	LOTAP0083	1
Anzag/fargon	Water	19C29T02065500	1
ANZAG	Chlorhexidine digluconate so...	11353012	1
Anzag	Chlorhexidine digluconate so...	1206023-01	2
anzag	Chlorhexidine digluconate so...	15131504	1
Anzag	Chlorhexidine digluconate so...	1708006-02	1
Anzag	Chlorhexidine digluconate so...	1811026-01	1
Anzag	Chlorhexidine digluconate so...	18215610	1
Anzag	Chlorhexidine digluconate so...	19080808	2
Anzag	Water	20003268001	1
Anzag	Aluminium acetotartrate solu...	20152B	2
Anzag	Water	LOTAP0103	1
Anzag; 3.80EUR; 7.10.2015	Chlorhexidine digluconate so...	1412018-02	1
Apoident /Sanacorp	Chlorhexidine digluconate so...	1811026-01	1
apo-ident.	Chlorhexidine digluconate so...	1511033-01	6
apo-ident.	Chlorhexidine digluconate so...	1610021-01	1
Apoident/ Phoenix	Chlorhexidine digluconate so...	2007044-01	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Apo-ident	Chlorhexidine digluconate so...	1508022-01	1
Apo-ident	Chlorhexidine digluconate so...	1701037-02	1
apo-ident	Chlorhexidine digluconate so...	17E09-B01-335136	1
apomix	Water	17114501	1
apomix	Chlorhexidine digluconate so...	17210105	1
apomix	Water	17E05-T03-044051	1
apomix	Chlorhexidine digluconate so...	18215601	1
apomix	Chlorhexidine digluconate so...	18C05-B04-352123	1
apomix	Chlorhexidine digluconate so...	2007044-02	1
aponorm (WEPA)	Water	LOT-SP0022	1
Apoth. E. Bartel	Aluminium acetotartrate solu...	20164B	1
Apoth. E. bertel/sanacorp	Aluminium acetotartrate solu...	20161B	1
Apoth. Elisabeth Bartel	Aluminium acetotartrate solu...	20165B	1
athenstaed	Aluminium acetotartrate solu...	180041	1
athenstaed	Aluminium acetotartrate solu...	180043	2
athenstaedt / Gehe	Aluminium acetotartrate solu...	160036	1
athenstaedt GmbH & Co K...	Aluminium acetotartrate solu...	180043	1
athenstaedt GmbH / Noweda	Aluminium acetotartrate solu...	110024	1
athenstaedt GmbH CoKG	Aluminium acetotartrate solu...	180043	1
Athenstaedt GmbH über J...	Aluminium acetotartrate solu...	190062	1
Athenstaedt GmbH/ AHD	Aluminium acetotartrate solu...	190036	1
athenstaedt GmbH/Allaen...	Aluminium acetotartrate solu...	180043	1
athenstaedt GmbH/Phönix	Aluminium acetotartrate solu...	160030	1
athenstaedt GmbH	Aluminium acetotartrate solu...	160030	2
athenstaedt GmbH	Aluminium acetotartrate solu...	190062	1
athenstaedt GmbH	Aluminium acetotartrate solu...	900107	2
Athenstaedt Noweda	Aluminium acetotartrate solu...	190036	1
Athenstaedt/ Gehe	Aluminium acetotartrate solu...	180041	1
athenstaedt/AllianceHC	Aluminium acetotartrate solu...	160029	1
athenstaedt/GEHE	Aluminium acetotartrate solu...	160030	1
athenstaedt/Noweda	Aluminium acetotartrate solu...	160030	1
Athenstaedt/P	Aluminium acetotartrate solu...	180041	1
athenstaedt/Phoenix	Aluminium acetotartrate solu...	190036	1
athenstaedt/Phönix	Aluminium acetotartrate solu...	180041	1
athenstaedt/Phönix	Aluminium acetotartrate solu...	190036	1
Athenstaedt/Phönix	Aluminium acetotartrate solu...	190063	1
athenstaedt/Phönix	Aluminium acetotartrate solu...	20166B	1
athenstaedt	Aluminium acetotartrate solu...	110024	1
Athenstaedt	Aluminium acetotartrate solu...	160029	1
athenstaedt	Aluminium acetotartrate solu...	160030	1
athenstaedt	Aluminium acetotartrate solu...	160036	1
Athenstaedt	Aluminium acetotartrate solu...	160036	2
athenstaedt	Aluminium acetotartrate solu...	180041	1
Athenstaedt	Aluminium acetotartrate solu...	180041	1
Athenstaedt	Aluminium acetotartrate solu...	180043	2
Athenstaedt	Aluminium acetotartrate solu...	180044	1
athenstaedt	Aluminium acetotartrate solu...	190036	1
Athenstaedt	Aluminium acetotartrate solu...	190037	1
Athenstaedt	Aluminium acetotartrate solu...	900108	3
athenstaedtFiebig	Aluminium acetotartrate solu...	180044	1
athenstaedtGmbH	Aluminium acetotartrate solu...	180044	1
Athensteadt	Aluminium acetotartrate solu...	180041	1
athenstedt	Aluminium acetotartrate solu...	110029	1
Audor Pharma	Chlorhexidine digluconate so...	13K26-B06-289365	2
Audor Pharma	Chlorhexidine digluconate so...	2007044-02	1
Aug. Hedinger GmbH & Co...	Aluminium acetotartrate solu...	20161B	1
Aug. Hedinger GmbH&Co. ...	Aluminium acetotartrate solu...		1
Aug. Hedinger GmbH&Co. ...	Aluminium acetotartrate solu...	20165B	1
AUG.HEDINGER GMBH	Water	219151	1
Aug.Hedinger/Phoenix	Aluminium acetotartrate solu...	20158B	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Aug.Hedinger	Aluminium acetotartrate solu…	20164B	2
B. Braun Melsungen AG	Water	202028002	1
B. Braun Melsungen AG	Water	203378001	1
B. Braun Melsungen AG	Water	204238002	1
B. Braun Melsungen AG	Water	204938001	1
B. Braun Melsungen AG	Water	211328001	1
B. Braun Melsungen AG	Water	211868001	1
B. Braun Melsungen AG	Water	212738001	1
B. Braun Melsungen/Jenne	Water	20073296	1
B.Braun Melsungen AG / …	Water	17081017	1
B.Braun Melsungen AG / …	Water	17436012	1
B.Braun Melsungen AG / …	Water	18074014	1
Bajaj Healthcare Ltd.	Chlorhexidine digluconate so…	1811026-01	1
Bajaj Healthcare Ltd.	Chlorhexidine digluconate so…	2007044-01	1
Bajaj Healthcare Ltd.	Chlorhexidine digluconate so…	200704402	1
Bajaj Healthcare/Phönix	Chlorhexidine digluconate so…	1908014-01	2
Beiersdorf/Gehe	Water	17K27-T15-050585	1
Berkel AHK	Chlorhexidine digluconate so…	13136115	1
Bionorica ethics	Water	18G16-T03-058126	1
Bombastus	Chlorhexidine digluconate so…	12H14-N06	1
Bombastus	Chlorhexidine digluconate so…	1412018-02	1
Bombastus	Chlorhexidine digluconate so…	1508022-02	1
Bombastus	Chlorhexidine digluconate so…	16002505	1
Bombastus	Aluminium acetotartrate solu…	160029	1
Bombastus	Water	17295701	1
Bombastus	Chlorhexidine digluconate so…	18045911	1
Bombastus	Aluminium acetotartrate solu…	18078602	1
Bombastus	Aluminium acetotartrate solu…	18078606	1
Bombastus	Water	18178302	1
Bombastus	Chlorhexidine digluconate so…	18C05-B04-352124	1
Bombastus	Water	AP0093	1
Bombastus	Water	AP-SP0012	1
Braun/Noweda	Water	19403013	1
Braun/Phoenix	Water	18074014	1
Braun/Phoenix	Water	18272011	1
Cael/Nowda	Chlorhexidine digluconate so…	13136115	1
Cael0/ Fiebig	Chlorhexidine digluconate so…	17210106	1
Caeleo/ Krieger	Chlorhexidine digluconate so…	17230801	2
Caeli/Fiebig	Chlorhexidine digluconate so…	17210112	1
Caelo	Chlorhexidine digluconate so…		10
Caelo	Aluminium acetotartrate solu…	(020)020	1
Caelo	Water	10038564	1
Caelo	Aluminium acetotartrate solu…	10114803	1
Caelo	Chlorhexidine digluconate so…	10200303	1
Caelo	Chlorhexidine digluconate so…	10200308	1
Caelo	Chlorhexidine digluconate so…	10213441	1
Caelo	Chlorhexidine digluconate so…	10213458	2
Caelo	Aluminium acetotartrate solu…	1031706	1
Caelo	Water	10893501	1
Caelo	Aluminium acetotartrate solu…	110024	1
Caelo	Aluminium acetotartrate solu…	110029	1
Caelo	Chlorhexidine digluconate so…	11135107	1
Caelo	Chlorhexidine digluconate so…	11135114	1
Caelo	Aluminium acetotartrate solu…	11315004	1
Caelo	Aluminium acetotartrate solu…	11315007	1
Caelo	Chlorhexidine digluconate so…	11353001	3
Caelo	Chlorhexidine digluconate so…	11353004	2
Caelo	Chlorhexidine digluconate so…	11353009	2
Caelo	Chlorhexidine digluconate so…	11353012	3
Caelo	Chlorhexidine digluconate so…	11353013	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Aluminium acetotartrate solu…	117(18078602)	1
Caelo	Aluminium acetotartrate solu…	118(18288401)	1
Caelo	Chlorhexidine digluconate so…	11L05-N080040	1
Caelo	Chlorhexidine digluconate so…	1202010-01	1
Caelo	Chlorhexidine digluconate so…	12055	1
Caelo	Chlorhexidine digluconate so…	1206023-01	1
Caelo	Chlorhexidine digluconate so…	1206023-02	3
Caelo	Chlorhexidine digluconate so…	1206023-02-335731907	1
Caelo	Chlorhexidine digluconate so…	12114001	4
Caelo	Chlorhexidine digluconate so…	12114007	1
Caelo	Chlorhexidine digluconate so…	12114008	4
Caelo	Chlorhexidine digluconate so…	12114012	10
Caelo	Chlorhexidine digluconate so…	12114013	3
Caelo	Chlorhexidine digluconate so…	12114014	3
Caelo	Chlorhexidine digluconate so…	12114015	2
Caelo	Chlorhexidine digluconate so…	12114019	3
Caelo	Aluminium acetotartrate solu…	12116803	3
Caelo	Aluminium acetotartrate solu…	12116804	4
Caelo	Chlorhexidine digluconate so…	12122222	1
Caelo	Aluminium acetotartrate solu…	122(19000719003)	1
Caelo	Aluminium acetotartrate solu…	12233501	3
Caelo	Aluminium acetotartrate solu…	12233502	4
Caelo	Aluminium acetotartrate solu…	12233503	1
Caelo	Aluminium acetotartrate solu…	12318701	5
Caelo	Aluminium acetotartrate solu…	12318702	1
Caelo	Aluminium acetotartrate solu…	12318703	1
Caelo	Aluminium acetotartrate solu…	12318704	3
Caelo	Aluminium acetotartrate solu…	12318705	2
Caelo	Chlorhexidine digluconate so…	12H14-N016	1
Caelo	Chlorhexidine digluconate so…	12H14-N06	2
Caelo	Chlorhexidine digluconate so…	12k22-n09	1
Caelo	Chlorhexidine digluconate so…	1308002	1
Caelo	Chlorhexidine digluconate so…	1308002-01	1
Caelo	Chlorhexidine digluconate so…	1308002-02	7
Caelo	Chlorhexidine digluconate so…	13081502	1
Caelo	Aluminium acetotartrate solu…	13101101	2
Caelo	Aluminium acetotartrate solu…	13101102	5
Caelo	Aluminium acetotartrate solu…	13101104	5
Caelo	Aluminium acetotartrate solu…	13101105	1
Caelo	Chlorhexidine digluconate so…	13136015	1
Caelo	Chlorhexidine digluconate so…	13136101	4
Caelo	Chlorhexidine digluconate so…	13136103	12
Caelo	Chlorhexidine digluconate so…	13136105	5
Caelo	Chlorhexidine digluconate so…	13136112	4
Caelo	Chlorhexidine digluconate so…	13136114	7
Caelo	Chlorhexidine digluconate so…	13136115	3
Caelo	Chlorhexidine digluconate so…	1316103	1
Caelo	Aluminium acetotartrate solu…	13261301	3
Caelo	Aluminium acetotartrate solu…	13261302	2
Caelo	Aluminium acetotartrate solu…	13261303	1
Caelo	Aluminium acetotartrate solu…	13261304	3
Caelo	Aluminium acetotartrate solu…	13261306	1
Caelo	Aluminium acetotartrate solu…	13378701	3
Caelo	Aluminium acetotartrate solu…	13378702	1
Caelo	Aluminium acetotartrate solu…	13378703	1
Caelo	Aluminium acetotartrate solu…	13378704	2
Caelo	Aluminium acetotartrate solu…	13378706	3
Caelo	Aluminium acetotartrate solu…	13378708	2
Caelo	Aluminium acetotartrate solu…	13378709	4
Caelo	Chlorhexidine digluconate so…	13A29-N06	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Chlorhexidine digluconate so...	13H19-B01-285451	1
Caelo	Chlorhexidine digluconate so...	13K26-B06	1
Caelo	Chlorhexidine digluconate so...	13K26-B06-288849	2
Caelo	Chlorhexidine digluconate so...	14011004	2
Caelo	Chlorhexidine digluconate so...	14011009	1
Caelo	Chlorhexidine digluconate so...	14011011	3
Caelo	Chlorhexidine digluconate so...	14011013	6
Caelo	Chlorhexidine digluconate so...	14011015	5
Caelo	Chlorhexidine digluconate so...	14011017	4
Caelo	Chlorhexidine digluconate so...	14011018	3
Caelo	Chlorhexidine digluconate so...	14011020	1
Caelo	Chlorhexidine digluconate so...	1401105	1
Caelo	Chlorhexidine digluconate so...	140111009	1
Caelo	Chlorhexidine digluconate so...	140111011	1
Caelo	Aluminium acetotartrate solu...	14071503	1
Caelo	Water	14078564	1
Caelo	Chlorhexidine digluconate so...	141201801	1
Caelo	Chlorhexidine digluconate so...	1412018-01	3
Caelo	Chlorhexidine digluconate so...	141201802	2
Caelo	Chlorhexidine digluconate so...	1412018-02	3
Caelo	Water	14170717	1
Caelo	Aluminium acetotartrate solu...	1425006	2
Caelo	Aluminium acetotartrate solu...	1425010	1
Caelo	Aluminium acetotartrate solu...	14252004	1
Caelo	Aluminium acetotartrate solu...	14252005	1
Caelo	Aluminium acetotartrate solu...	14252006	1
Caelo	Aluminium acetotartrate solu...	14252007	2
Caelo	Aluminium acetotartrate solu...	14252008	3
Caelo	Aluminium acetotartrate solu...	14252009	3
Caelo	Aluminium acetotartrate solu...	14252010	10
Caelo	Aluminium acetotartrate solu...	14252011	1
Caelo	Water	14321201	1
Caelo	Chlorhexidine digluconate so...	14331301	7
Caelo	Chlorhexidine digluconate so...	14331303	2
Caelo	Chlorhexidine digluconate so...	14331306	4
Caelo	Chlorhexidine digluconate so...	14331307	10
Caelo	Chlorhexidine digluconate so...	14331308	2
Caelo	Chlorhexidine digluconate so...	14331309	3
Caelo	Chlorhexidine digluconate so...	14331310	1
Caelo	Chlorhexidine digluconate so...	14331312	9
Caelo	Chlorhexidine digluconate so...	14331313	9
Caelo	Water	14364201	1
Caelo	Water	14LL26	3
Caelo	Chlorhexidine digluconate so...	15/03-B02-315213	1
Caelo	Chlorhexidine digluconate so...	15/03-B02-315552	1
Caelo	Water	15013001	1
Caelo	Water	15025501	1
Caelo	Aluminium acetotartrate solu...	1504506	1
Caelo	Aluminium acetotartrate solu...	15045403	11
Caelo	Aluminium acetotartrate solu...	15045404	2
Caelo	Aluminium acetotartrate solu...	15045405	5
Caelo	Aluminium acetotartrate solu...	15045406	19
Caelo	Aluminium acetotartrate solu...	15054405	1
Caelo	Water	15068701	2
Caelo	Water	15068702	4
Caelo	Chlorhexidine digluconate so...	1508022-01	3
Caelo	Chlorhexidine digluconate so...	1508022-02	1
Caelo	Chlorhexidine digluconate so...	1508022-22	1
Caelo	Chlorhexidine digluconate so...	15109201	13
Caelo	Chlorhexidine digluconate so...	15109202	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Chlorhexidine digluconate so…	15110033-01	1
Caelo	Chlorhexidine digluconate so…	1511033/02	1
Caelo	Chlorhexidine digluconate so…	151103301	1
Caelo	Chlorhexidine digluconate so…	1511033-01	4
Caelo	Chlorhexidine digluconate so…	1511033-02	4
Caelo	Chlorhexidine digluconate so…	15131502	10
Caelo	Chlorhexidine digluconate so…	15131503	16
Caelo	Chlorhexidine digluconate so…	15131504	13
Caelo	Chlorhexidine digluconate so…	15131505	20
Caelo	Chlorhexidine digluconate so…	15131508	4
Caelo	Chlorhexidine digluconate so…	15131509	26
Caelo	Chlorhexidine digluconate so…	15131510	17
Caelo	Chlorhexidine digluconate so…	15131512	7
Caelo	Chlorhexidine digluconate so…	15131565	1
Caelo	Chlorhexidine digluconate so…	151361503	1
Caelo	Water	15154901	1
Caelo	Water	15220601	3
Caelo	Water	15220602	7
Caelo	Water	15235201	1
Caelo	Water	15235301	2
Caelo	Water	1524101	1
Caelo	Water	15253901	5
Caelo	Water	15254101	3
Caelo	Water	15287302	3
Caelo	Water	15287401	2
Caelo	Water	15287501	2
Caelo	Chlorhexidine digluconate so…	15292504	22
Caelo	Chlorhexidine digluconate so…	15292507	6
Caelo	Chlorhexidine digluconate so…	15292508	22
Caelo	Chlorhexidine digluconate so…	15292509	6
Caelo	Chlorhexidine digluconate so…	15292511	2
Caelo	Chlorhexidine digluconate so…	15292512	6
Caelo	Chlorhexidine digluconate so…	1529504	1
Caelo	Chlorhexidine digluconate so…	1529509	1
Caelo	Chlorhexidine digluconate so…	1529511	1
Caelo	Aluminium acetotartrate solu…	1529901	1
Caelo	Aluminium acetotartrate solu…	15299601	1
Caelo	Aluminium acetotartrate solu…	15299901	23
Caelo	Aluminium acetotartrate solu…	15299902	5
Caelo	Aluminium acetotartrate solu…	15299904	4
Caelo	Aluminium acetotartrate solu…	15299909	12
Caelo	Water	15317101	1
Caelo	Water	15317401	1
Caelo	Water	15336501	5
Caelo	Water	15336502	1
Caelo	Water	15355201	1
Caelo	Water	15355301	2
Caelo	Water	15355401	1
Caelo	Water	15371202	4
Caelo	Water	15394201	4
Caelo	Water	15394202	12
Caelo	Water	15394501	2
Caelo	Water	15406801	2
Caelo	Water	1542701	1
Caelo	Water	15427201	5
Caelo	Chlorhexidine digluconate so…	1592509	1
Caelo	Water	15D13-T09-021469	1
Caelo	Water	15D14-T06-021484	1
Caelo	Water	15D14-T14-021502	1
Caelo	Water	15F04-T05-023263	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Water	15F24-T03-023883	2
Caelo	Chlorhexidine digluconate so...	15f30-b05-309829	1
Caelo	Chlorhexidine digluconate so...	15F30-B05-309829	1
Caelo	Chlorhexidine digluconate so...	15F30-B05-311700	1
Caelo	Water	15G09-T04-024368	2
Caelo	Water	15H25T18025678	1
Caelo	Water	15H25-T18-025678	1
Caelo	Water	15H25-T21-025683	2
Caelo	Chlorhexidine digluconate so...	15i03-b02	1
Caelo	Chlorhexidine digluconate so...	15I03-B02-313663	1
Caelo	Chlorhexidine digluconate so...	15I03-B02-315213	4
Caelo	Water	15I10-T08-025964	1
Caelo	Water	15K10-T06-027620	1
Caelo	Chlorhexidine digluconate so...	15l03-b02-317319	1
Caelo	Water	15L15-T05-028681	1
Caelo	Water	15L15T07028685	1
Caelo	Chlorhexidine digluconate so...	16002501	18
Caelo	Chlorhexidine digluconate so...	16002502	6
Caelo	Chlorhexidine digluconate so...	16002505	27
Caelo	Chlorhexidine digluconate so...	16002506	10
Caelo	Chlorhexidine digluconate so...	16002510	6
Caelo	Water	16002601	1
Caelo	Water	16002901	1
Caelo	Aluminium acetotartrate solu...	160030	1
Caelo	Aluminium acetotartrate solu...	16004501	4
Caelo	Aluminium acetotartrate solu...	16004504	3
Caelo	Aluminium acetotartrate solu...	16004505	23
Caelo	Aluminium acetotartrate solu...	16004512	12
Caelo	Aluminium acetotartrate solu...	16004525	1
Caelo	Water	16006001	3
Caelo	Chlorhexidine digluconate so...	160308811	1
Caelo	Water	16041701	1
Caelo	Water	16065001	1
Caelo	Water	16065101	2
Caelo	Water	16065201	2
Caelo	Water	16065601	1
Caelo	Water	16065701	1
Caelo	Aluminium acetotartrate solu...	16091704	1
Caelo	Water	16093301	3
Caelo	Chlorhexidine digluconate so...	161002101	1
Caelo	Chlorhexidine digluconate so...	1610022-01	1
Caelo	Water	16127901	4
Caelo	Water	16127902	7
Caelo	Water	16151201	2
Caelo	Water	1615201	1
Caelo	Water	16171301	1
Caelo	Water	16178101	1
Caelo	Water	16211901	3
Caelo	Water	16215202	1
Caelo	Water	16218601	1
Caelo	Water	16223501	1
Caelo	Water	16223601	3
Caelo	Water	16223801	21
Caelo	Water	16223901	2
Caelo	Water	16255101	2
Caelo	Water	16255201	4
Caelo	Aluminium acetotartrate solu...	16260201	1
Caelo	Water	16286801	5
Caelo	Water	16291601	2
Caelo	Water	16307501	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Chlorhexidine digluconate so…	16308801	69
Caelo	Chlorhexidine digluconate so…	16308802	25
Caelo	Chlorhexidine digluconate so…	1630881	3
Caelo	Chlorhexidine digluconate so…	16308811	71
Caelo	Chlorhexidine digluconate so…	16308812	26
Caelo	Chlorhexidine digluconate so…	1630881218c05b043521	1
Caelo	Chlorhexidine digluconate so…	16309902	1
Caelo	Water	16313201	5
Caelo	Water	16313202	2
Caelo	Water	16334201	1
Caelo	Water	16334301	1
Caelo	Water	16340201	2
Caelo	Aluminium acetotartrate solu…	163420001	1
Caelo	Aluminium acetotartrate solu…	163420006	1
Caelo	Aluminium acetotartrate solu…	16342001	30
Caelo	Aluminium acetotartrate solu…	16342003	1
Caelo	Aluminium acetotartrate solu…	16342005	18
Caelo	Aluminium acetotartrate solu…	16342006	21
Caelo	Aluminium acetotartrate solu…	16342007	4
Caelo	Water	16353303	9
Caelo	Water	16B10T04030213	1
Caelo	Water	16B10-T05-030216	2
Caelo	Water	16C23-/08_031427	1
Caelo	Water	16C23-T16-031436	3
Caelo	Chlorhexidine digluconate so…	16E09-B03	1
Caelo	Chlorhexidine digluconate so…	16E09-B03-320995	1
Caelo	Chlorhexidine digluconate so…	16E09-B03-322465	1
Caelo	Chlorhexidine digluconate so…	16E09-B03-324024	1
Caelo	Water	16F13-T11-034264	1
Caelo	Water	16F13-T11-34264	1
Caelo	Water	16F13-T14-034274	1
Caelo	Water	16F13-T16-034297	2
Caelo	Water	16F13-T18-034301	1
Caelo	Water	16F143-T09-034330	1
Caelo	Water	16F14-T03-034317	1
Caelo	Water	16F14-T05-03432	1
Caelo	Water	16F14-T05-034321	2
Caelo	Water	16F14-T05o34321	1
Caelo	Water	16F14-T07-034326	1
Caelo	Water	16F14-T09-034330	1
Caelo	Water	16K25-C20-17409	1
Caelo	Water	16L12-T11-039624	1
Caelo	Water	16L12T16039628	1
Caelo	Water	16L12T25039642	1
Caelo	Water	16L12-T27-039646	2
Caelo	Water	16L12-T31-039661	1
Caelo	Water	17002001	12
Caelo	Water	17002101	5
Caelo	Chlorhexidine digluconate so…	1701037	2
Caelo	Chlorhexidine digluconate so…	1701037-01	1
Caelo	Chlorhexidine digluconate so…	170103702	1
Caelo	Chlorhexidine digluconate so…	1701037-02	8
Caelo	Water	17011603	1
Caelo	Water	17012002	1
Caelo	Water	170320001	1
Caelo	Water	17032401	4
Caelo	Water	17034801	1
Caelo	Water	17034901	1
Caelo	Water	17035001	1
Caelo	Water	17035101	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Water	17035201	4
Caelo	Aluminium acetotartrate solu…	17051804	1
Caelo	Chlorhexidine digluconate so…	1708006-001	1
Caelo	Chlorhexidine digluconate so…	1708006-01	2
Caelo	Chlorhexidine digluconate so…	1708006-02	3
Caelo	Aluminium acetotartrate solu…	17081201	1
Caelo	Water	17089101	3
Caelo	Water	17089301	2
Caelo	Water	17089401	3
Caelo	Water	17092001	1
Caelo	Water	17098701	7
Caelo	Water	17098901	10
Caelo	Chlorhexidine digluconate so…	171002-02	1
Caelo	Chlorhexidine digluconate so…	171027CDG/17210105	1
Caelo	Water	17114501	5
Caelo	Water	17114701	16
Caelo	Water	17114801	6
Caelo	Chlorhexidine digluconate so…	1712002-01	4
Caelo	Chlorhexidine digluconate so…	171200202	1
Caelo	Chlorhexidine digluconate so…	1712002-02	1
Caelo	Water	17145001	15
Caelo	Water	17145002	2
Caelo	Water	17149601	3
Caelo	Water	17173001	5
Caelo	Water	17173101	5
Caelo	Water	17177301	22
Caelo	Water	17179001	8
Caelo	Water	17179101	7
Caelo	Chlorhexidine digluconate so…	172010105	1
Caelo	Chlorhexidine digluconate so…	17210101	7
Caelo	Chlorhexidine digluconate so…	17210102	4
Caelo	Chlorhexidine digluconate so…	17210105	39
Caelo	Chlorhexidine digluconate so…	17210106	21
Caelo	Chlorhexidine digluconate so…	17210110	33
Caelo	Chlorhexidine digluconate so…	172101110	1
Caelo	Chlorhexidine digluconate so…	17210112	49
Caelo	Chlorhexidine digluconate so…	1721105	1
Caelo	Water	17211301	4
Caelo	Water	17211401	1
Caelo	Water	17219101	7
Caelo	Chlorhexidine digluconate so…	172300801	1
Caelo	Chlorhexidine digluconate so…	17230801	117
Caelo	Chlorhexidine digluconate so…	17230811	1
Caelo	Water	17233001	4
Caelo	Water	17233101	5
Caelo	Water	1723311	1
Caelo	Water	17249101	6
Caelo	Water	17277102	8
Caelo	Water	17282701	9
Caelo	Water	1728270127/18	1
Caelo	Water	17291301	2
Caelo	Water	17295701	38
Caelo	Water	17304001	1
Caelo	Water	17304101	3
Caelo	Water	17313801	2
Caelo	Water	17317201	2
Caelo	Water	17317301	5
Caelo	Water	17319901	6
Caelo	Water	17320001	11
Caelo	Water	17339701	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Water	17339801	4
Caelo	Water	17810-T27-041575	1
Caelo	Water	17B10-T18-041564	3
Caelo	Water	17B10-T20-041571	1
Caelo	Water	17B10-T27-041575	1
Caelo	Water	17B13-T02-041604	1
Caelo	Water	17C31-T05-043064	1
Caelo	Water	17E05-T03-044051	3
Caelo	Water	17E05-T07-044067	2
Caelo	Water	17E05T11044076	1
Caelo	Water	17E05-T11-044076	3
Caelo	Water	17E05-T13-044080	3
Caelo	Chlorhexidine digluconate so...	17E09-B01-335140	2
Caelo	Water	17F23-T06-045760	1
Caelo	Chlorhexidine digluconate so...	17G04-B01-341691	1
Caelo	Chlorhexidine digluconate so...	17G04-B01-341693	3
Caelo	Water	17H24-T09-047709	2
Caelo	Water	17H24T11047713	1
Caelo	Water	17H24-T11-047713	2
Caelo	Water	17H24-T13-047717	1
Caelo	Water	17H24-T15-047721	8
Caelo	Water	17K01-T01-048440	1
Caelo	Water	17K27-T09-050544	5
Caelo	Water	17k27-t11-050552	1
Caelo	Water	17K27T14050581	1
Caelo	Water	17K27-T15-050585	3
Caelo	Water	17L20-T02-051255	1
Caelo	Water	18/24-T14-060238	1
Caelo	Water	18000401	6
Caelo	Aluminium acetotartrate solu...	180041	1
Caelo	Aluminium acetotartrate solu...	180043	2
Caelo	Water	18004701	1
Caelo	Water	18019501	4
Caelo	Water	18030402	11
Caelo	Water	18035301	1
Caelo	Water	18042901	33
Caelo	Chlorhexidine digluconate so...	18045903	75
Caelo	Chlorhexidine digluconate so...	180459035663	1
Caelo	Chlorhexidine digluconate so...	18045906	53
Caelo	Chlorhexidine digluconate so...	18045909	12
Caelo	Chlorhexidine digluconate so...	18045911	8
Caelo	Chlorhexidine digluconate so...	18055911	1
Caelo	Water	18061901	10
Caelo	Water	180619012x	1
Caelo	Water	18062001	1
Caelo	Water	180620012x	1
Caelo	Water	18062101	10
Caelo	Water	1806501	1
Caelo	Water	18065601	9
Caelo	Aluminium acetotartrate solu...	18078602	38
Caelo	Aluminium acetotartrate solu...	18078602/P-23081822	1
Caelo	Aluminium acetotartrate solu...	18078606	35
Caelo	Aluminium acetotartrate solu...	18078607	7
Caelo	Aluminium acetotartrate solu...	18078608	1
Caelo	Aluminium acetotartrate solu...	18078611	6
Caelo	Water	18093061	1
Caelo	Water	18093501	14
Caelo	Water	18093601	15
Caelo	Water	180936061	1
Caelo	Water	1810401	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Chlorhexidine digluconate so…	18107-B04	1
Caelo	Chlorhexidine digluconate so…	18107-B04-354794	1
Caelo	Water	18109101	2
Caelo	Water	18109201	2
Caelo	Water	18109301	6
Caelo	Water	18109501	4
Caelo	Chlorhexidine digluconate so…	1811026	1
Caelo	Chlorhexidine digluconate so…	1811026/01	1
Caelo	Chlorhexidine digluconate so…	181102601	1
Caelo	Chlorhexidine digluconate so…	1811026-01	13
Caelo	Water	18110401	18
Caelo	Water	18138601	7
Caelo	Water	18146801	3
Caelo	Water	181468801	1
Caelo	Water	1814801	1
Caelo	Water	18148601	1
Caelo	Water	18156201	18
Caelo	Water	18156301	5
Caelo	Water	18156401	8
Caelo	Water	18156501	8
Caelo	Water	18178302	45
Caelo	Water	18178303	1
Caelo	Water	18178401	1
Caelo	Water	1818302	1
Caelo	Water	1819201	1
Caelo	Water	18195201	12
Caelo	Water	1819-T29-054007	1
Caelo	Water	18210601	5
Caelo	Chlorhexidine digluconate so…	18215601	108
Caelo	Chlorhexidine digluconate so…	18215602	34
Caelo	Chlorhexidine digluconate so…	18215603	3
Caelo	Chlorhexidine digluconate so…	18215604	1
Caelo	Chlorhexidine digluconate so…	18215607	1
Caelo	Chlorhexidine digluconate so…	18215610	53
Caelo	Chlorhexidine digluconate so…	18215612	19
Caelo	Chlorhexidine digluconate so…	182156212	1
Caelo	Water	182263401	1
Caelo	Water	18226601	4
Caelo	Water	18226701	6
Caelo	Water	18226801	1
Caelo	Water	18226901	4
Caelo	Water	18227001	10
Caelo	Water	18228701	10
Caelo	Water	18228801	10
Caelo	Water	18228901	9
Caelo	Water	18238601	11
Caelo	Water	18239901	2
Caelo	Water	18240101	5
Caelo	Water	18253301	1
Caelo	Water	18254801	2
Caelo	Water	18263401	5
Caelo	Water	18265001	46
Caelo	Water	18265601	1
Caelo	Aluminium acetotartrate solu…	1828402	1
Caelo	Aluminium acetotartrate solu…	18288401	20
Caelo	Aluminium acetotartrate solu…	18288402	1
Caelo	Aluminium acetotartrate solu…	18288404	10
Caelo	Aluminium acetotartrate solu…	18288405	2
Caelo	Aluminium acetotartrate solu…	18288408	15
Caelo	Aluminium acetotartrate solu…	18288409	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Water	1828901	1
Caelo	Water	18299501	8
Caelo	Water	18305101	10
Caelo	Water	18305201	9
Caelo	Water	18305301	7
Caelo	Water	18305401	4
Caelo	Water	18305501	5
Caelo	Water	18325001	6
Caelo	Water	18332901	3
Caelo	Aluminium acetotartrate solu...	184288404	1
Caelo	Chlorhexidine digluconate so...	18A09-B05-344603	1
Caelo	Chlorhexidine digluconate so...	18A09-B05-344604	1
Caelo	Chlorhexidine digluconate so...	18A09-B05-344605	1
Caelo	Chlorhexidine digluconate so...	18C05-B04-349429	1
Caelo	Water	18C13T14053736	1
Caelo	Water	18C13-T15-053741	2
Caelo	Water	18C19T053999	1
Caelo	Water	18C19-T25-053991	1
Caelo	Water	18c19-T26-053995	1
Caelo	Water	18C19-T26-053995	3
Caelo	Water	18C19-T27-053999	3
Caelo	Water	18C19-T28-054003	1
Caelo	Water	18C19-T30-054012	2
Caelo	Water	18C19-T31-054017	1
Caelo	Water	18C-T15-053741	1
Caelo	Water	18E07-T08-055699	3
Caelo	Water	18E09-T01-055708	2
Caelo	Water	18E09-T02-055711	4
Caelo	Water	18E09-T02-0557711	1
Caelo	Water	18E28-T02-056491	1
Caelo	Water	18G16-T01-058118	1
Caelo	Water	18G16-T02-058123	2
Caelo	Water	18G16-T03-058126	2
Caelo	Water	18G16-T04-058129	1
Caelo	Water	18G16T05058132	1
Caelo	Water	18G16-T05-058132	2
Caelo	Water	18ho-T01-060845	1
Caelo	Chlorhexidine digluconate so...	18I07-B04	1
Caelo	Water	18I24-T14-060238	1
Caelo	Water	18I24-T14-060239	2
Caelo	Water	18I24-T14-060243	1
Caelo	Water	18I24-T15-060243	2
Caelo	Water	18J10-T01-060845	1
Caelo	Water	18l19-T06-062854	1
Caelo	Aluminium acetotartrate solu...	190007190003	1
Caelo	Aluminium acetotartrate solu...	19000719003	22
Caelo	Aluminium acetotartrate solu...	19000719007	12
Caelo	Aluminium acetotartrate solu...	19002202	1
Caelo	Aluminium acetotartrate solu...	190037	1
Caelo	Water	19005501	11
Caelo	Water	19005601	29
Caelo	Water	19005602	4
Caelo	Aluminium acetotartrate solu...	19010901	1
Caelo	Water	19012801	4
Caelo	Water	19019701	1
Caelo	Water	19019801	6
Caelo	Chlorhexidine digluconate so...	1902010-01	1
Caelo	Chlorhexidine digluconate so...	1902010-02	1
Caelo	Water	19024301	7
Caelo	Water	19029001	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Chlorhexidine digluconate so…	190341303	1
Caelo	Water	19037701	7
Caelo	Chlorhexidine digluconate so…	19040001	1
Caelo	Aluminium acetotartrate solu…	19052014A	1
Caelo	Water	19065102	10
Caelo	Water	19077501	5
Caelo	Water	190775501	1
Caelo	Water	19077601	16
Caelo	Water	19077701	13
Caelo	Water	19077801	19
Caelo	Chlorhexidine digluconate so…	1908014-01	1
Caelo	Chlorhexidine digluconate so…	19080807	15
Caelo	Chlorhexidine digluconate so…	19080808	104
Caelo	Chlorhexidine digluconate so…	19080809	2
Caelo	Chlorhexidine digluconate so…	19080810	2
Caelo	Chlorhexidine digluconate so…	19080812	22
Caelo	Chlorhexidine digluconate so…	19080815	1
Caelo	Chlorhexidine digluconate so…	19080816	1
Caelo	Chlorhexidine digluconate so…	19080817	15
Caelo	Chlorhexidine digluconate so…	19080818	25
Caelo	Water	19097901	19
Caelo	Water	190993001	1
Caelo	Chlorhexidine digluconate so…	1909-T07-071038	1
Caelo	Water	19110901	2
Caelo	Water	19111601	4
Caelo	Water	19111701	5
Caelo	Water	19112403	1
Caelo	Water	1911601	1
Caelo	Chlorhexidine digluconate so…	191172310	1
Caelo	Chlorhexidine digluconate so…	1912015-01	4
Caelo	Water	19133401	9
Caelo	Water	19149201	1
Caelo	Water	191522801	1
Caelo	Water	19152501	3
Caelo	Water	19152701	8
Caelo	Water	19152801	31
Caelo	Water	19162701	7
Caelo	Water	19184102	10
Caelo	Water	19184201	5
Caelo	Water	19198301	9
Caelo	Water	19198401	12
Caelo	Water	19198501	5
Caelo	Water	19199101	8
Caelo	Water	19207401	7
Caelo	Water	19229401	6
Caelo	Water	19246201	7
Caelo	Water	19253301	4
Caelo	Water	19253401	9
Caelo	Water	19253501	1
Caelo	Water	19253601	1
Caelo	Water	19263601	6
Caelo	Water	19274201	6
Caelo	Water	192874001	2
Caelo	Chlorhexidine digluconate so…	192927008	1
Caelo	Chlorhexidine digluconate so…	19297002	1
Caelo	Chlorhexidine digluconate so…	19297006	1
Caelo	Chlorhexidine digluconate so…	1929720002	1
Caelo	Chlorhexidine digluconate so…	192972001	2
Caelo	Chlorhexidine digluconate so…	192972002	67
Caelo	Chlorhexidine digluconate so…	192972003	10

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Chlorhexidine digluconate so...	192972006	38
Caelo	Chlorhexidine digluconate so...	192972007	9
Caelo	Chlorhexidine digluconate so...	192972008	45
Caelo	Chlorhexidine digluconate so...	1929972008	1
Caelo	Water	19A18-T06-063528	1
Caelo	Water	19A18-T07-063531	1
Caelo	Water	19C29-T05-065509	2
Caelo	Water	19C29-T06-065512	1
Caelo	Water	19E20-T09-067576	1
Caelo	Water	19F27-T14-068914	2
Caelo	Chlorhexidine digluconate so...	19I09-t07-071037	1
Caelo	Chlorhexidine digluconate so...	19J09-T07-071043	1
Caelo	Water	19J14-T12-072715x5	1
Caelo	Water	20000072001	4
Caelo	Water	200000806001	1
Caelo	Chlorhexidine digluconate so...	2000009600004	1
Caelo	Chlorhexidine digluconate so...	200000960009	1
Caelo	Water	200001039001	1
Caelo	Water	200001770001	1
Caelo	Water	20000279001	2
Caelo	Water	20000291101	1
Caelo	Water	20000409001	4
Caelo	Water	20000410001	3
Caelo	Water	20000412001	3
Caelo	Water	20000418001	4
Caelo	Water	20000526001	2
Caelo	Water	20000526002	19
Caelo	Chlorhexidine digluconate so...	20000779002	1
Caelo	Water	20000806001	7
Caelo	Water	20000853001	8
Caelo	Water	20000934001	3
Caelo	Chlorhexidine digluconate so...	200009600005	1
Caelo	Chlorhexidine digluconate so...	20000960002	1
Caelo	Chlorhexidine digluconate so...	20000960004	29
Caelo	Chlorhexidine digluconate so...	20000960005	14
Caelo	Chlorhexidine digluconate so...	20000960009	49
Caelo	Chlorhexidine digluconate so...	2000096004	1
Caelo	Chlorhexidine digluconate so...	2000096005	1
Caelo	Chlorhexidine digluconate so...	2000096009	3
Caelo	Water	20001036001	10
Caelo	Water	20001037001	7
Caelo	Water	20001039001	11
Caelo	Water	20001117001	2
Caelo	Water	20001119001	22
Caelo	Water	20001293001	9
Caelo	Water	20001377001	9
Caelo	Water	20001416001	5
Caelo	Water	20001518001	8
Caelo	Water	20001628001	6
Caelo	Water	20001629001	9
Caelo	Water	20001770001	2
Caelo	Water	20002022001	4
Caelo	Water	2000202201	1
Caelo	Water	20002246001	1
Caelo	Water	20002379001	1
Caelo	Water	20002379002	9
Caelo	Water	20002402001	7
Caelo	Water	20002447001	9
Caelo	Water	20002448001	7
Caelo	Water	20002449001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Water	20002745001	7
Caelo	Water	20002783001	1
Caelo	Water	20002911001	21
Caelo	Water	20002911101	1
Caelo	Water	20002912001	5
Caelo	Chlorhexidine digluconate so...	20003241003	16
Caelo	Water	20003259001	6
Caelo	Water	20003260001	10
Caelo	Water	20003266001	2
Caelo	Water	20003268001	2
Caelo	Water	20003298001	1
Caelo	Water	20003299002	1
Caelo	Water	20003300001	3
Caelo	Water	20003301001	1
Caelo	Water	20003301002	1
Caelo	Water	200038/79001	1
Caelo	Water	20003876001	1
Caelo	Water	20003877001	13
Caelo	Water	20003877003	3
Caelo	Water	20003878001	2
Caelo	Water	20003879001	4
Caelo	Water	20004029001	5
Caelo	Water	2000418001	1
Caelo	Water	20004264001	1
Caelo	Water	20004435001	13
Caelo	Water	200044351001	1
Caelo	Water	20004436001	3
Caelo	Chlorhexidine digluconate so...	2000960004	1
Caelo	Chlorhexidine digluconate so...	2000960009	3
Caelo	Chlorhexidine digluconate so...	200096004	1
Caelo	Water	2001119001	1
Caelo	Water	2001377001	1
Caelo	Water	2001770001	2
Caelo	Water	2002379002	1
Caelo	Chlorhexidine digluconate so...	20031301	1
Caelo	Water	2003259001	1
Caelo	Water	20038676001	1
Caelo	Chlorhexidine digluconate so...	2007044-01	4
Caelo	Aluminium acetotartrate solu...	20150B	2
Caelo	Aluminium acetotartrate solu...	20151B	1
Caelo	Aluminium acetotartrate solu...	20152b	1
Caelo	Aluminium acetotartrate solu...	20152B	1
Caelo	Aluminium acetotartrate solu...	201538	1
Caelo	Aluminium acetotartrate solu...	20153B	3
Caelo	Aluminium acetotartrate solu...	20154B	4
Caelo	Aluminium acetotartrate solu...	20155B	4
Caelo	Aluminium acetotartrate solu...	201563	1
Caelo	Aluminium acetotartrate solu...	20156B	4
Caelo	Aluminium acetotartrate solu...	20157B	1
Caelo	Aluminium acetotartrate solu...	20158B	3
Caelo	Aluminium acetotartrate solu...	201598	1
Caelo	Aluminium acetotartrate solu...	20159b	1
Caelo	Aluminium acetotartrate solu...	20159B	2
Caelo	Aluminium acetotartrate solu...	20160B	3
Caelo	Aluminium acetotartrate solu...	201618	1
Caelo	Aluminium acetotartrate solu...	20161B	11
Caelo	Aluminium acetotartrate solu...	20162B	2
Caelo	Aluminium acetotartrate solu...	20163B	5
Caelo	Aluminium acetotartrate solu...	20164B	2
Caelo	Aluminium acetotartrate solu...	2016B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Aluminium acetotartrate solu…	2058179	2
Caelo	Water	2092001	1
Caelo	Water	20E04-T05-079944	1
Caelo	Chlorhexidine digluconate so…	20K24-To4-076652	1
Caelo	Water	20L22-T01-085061	1
Caelo	Chlorhexidine digluconate so…	21000177002	2
Caelo	Chlorhexidine digluconate so…	21000177003	5
Caelo	Chlorhexidine digluconate so…	21000177005	31
Caelo	Chlorhexidine digluconate so…	21000177008	9
Caelo	Chlorhexidine digluconate so…	2100017705	2
Caelo	Water	21000317001	3
Caelo	Water	21000318001	4
Caelo	Water	21000319001	1
Caelo	Water	21000522001	3
Caelo	Water	2100052201	1
Caelo	Water	21000548003	2
Caelo	Oral suspension base	210007577001	1
Caelo	Water	21001065001	5
Caelo	Water	21001067001	1
Caelo	Water	21001086001	2
Caelo	Water	21001131002	10
Caelo	Oral suspension base	21001227001	2
Caelo	Water	21001353001	6
Caelo	Water	21001407001	2
Caelo	Water	21001409001	2
Caelo	Water	21001411001	4
Caelo	Chlorhexidine digluconate so…	21001487001	3
Caelo	Chlorhexidine digluconate so…	21001487002	31
Caelo	Water	21001685001	7
Caelo	Chlorhexidine digluconate so…	2100177005	1
Caelo	Water	21001790001	9
Caelo	Water	21001792001	5
Caelo	Water	21001862001	8
Caelo	Chlorhexidine digluconate so…	2100187002	1
Caelo	Oral suspension base	21002023001	1
Caelo	Oral suspension base	21002023002	4
Caelo	Water	21002061001	1
Caelo	Oral suspension base	21002200002	4
Caelo	Water	21002306001	1
Caelo	Water	21002424002	12
Caelo	Water	21002426001	1
Caelo	Water	21002427001	4
Caelo	Oral suspension base	21002725001	2
Caelo	Oral suspension base	21002725002	1
Caelo	Water	21002862001	1
Caelo	Aluminium acetotartrate solu…	21002881004	2
Caelo	Aluminium acetotartrate solu…	21002881005	4
Caelo	Aluminium acetotartrate solu…	21002881006	2
Caelo	Water	21003098001	1
Caelo	Water	21003115001	1
Caelo	Water	21003421001	6
Caelo	Water	21003422001	1
Caelo	Water	21003471001	2
Caelo	Water	21003472001	1
Caelo	Water	21003472002	1
Caelo	Water	21003609001	2
Caelo	Chlorhexidine digluconate so…	21003821002	1
Caelo	Chlorhexidine digluconate so…	21003821003	9
Caelo	Oral suspension base	21003881001	2
Caelo	Water	21003898001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Water	21004113001	5
Caelo	Water	21004114001	1
Caelo	Chlorhexidine digluconate so...	2100487004	1
Caelo	Oral suspension base	210302012002	1
Caelo	Water	211019(21001131002)	1
Caelo	Chlorhexidine digluconate so...	217U-01262	1
Caelo	Water	219156	1
Caelo	Water	219167	1
Caelo	Water	219184	1
Caelo	Water	2191953x1000ml	1
Caelo	Water	219196	1
Caelo	Water	2192222x	1
Caelo	Water	21C23-T07-087188	1
Caelo	Water	22000149001	3
Caelo	Water	22000150001	1
Caelo	Water	22000391001	3
Caelo	Water	22000458001	1
Caelo	Water	2200149001	1
Caelo	Water	220324AC	1
Caelo	Water	23081606	1
Caelo	Aluminium acetotartrate solu...	2560335	1
Caelo	Chlorhexidine digluconate so...	26A080415	1
Caelo	Aluminium acetotartrate solu...	2713M-01793	1
Caelo	Chlorhexidine digluconate so...	2828	1
Caelo	Water	2x17114701	1
Caelo	Water	2x18030402	1
Caelo	Water	3045919	1
Caelo	Chlorhexidine digluconate so...	32/AD1	1
Caelo	Chlorhexidine digluconate so...	3276	1
Caelo	Chlorhexidine digluconate so...	3307	1
Caelo	Chlorhexidine digluconate so...	3353	1
Caelo	Chlorhexidine digluconate so...	38962710218	1
Caelo	Water	39628	1
Caelo	Water	4(18265001)	1
Caelo	Aluminium acetotartrate solu...	4071201	1
Caelo	Water	4x192874001	1
Caelo	Water	5(18265001)	1
Caelo	Chlorhexidine digluconate so...	5017I-01262	1
Caelo	Water	6(20002911001)	1
Caelo	Aluminium acetotartrate solu...	6031415	1
Caelo	Chlorhexidine digluconate so...	7230801	1
Caelo	Chlorhexidine digluconate so...	815I-01262	1
Caelo	Chlorhexidine digluconate so...	8215610	1
Caelo	Chlorhexidine digluconate so...	A-170472	1
Caelo	Water	AP0099	1
Caelo	Water	AP-SP0002	1
Caelo	Water	AP-SP0009	1
Caelo	Water	AP-SP0017	1
Caelo	Water	AP-SP0019	1
Caelo	Water	AP-SP0021	1
Caelo	Chlorhexidine digluconate so...	BK13-CG-011	1
Caelo	Chlorhexidine digluconate so...	BK17-CG-001	1
Caelo	Chlorhexidine digluconate so...	Caelo	1
Caelo	Chlorhexidine digluconate so...	CH-B18215601	1
Caelo	Chlorhexidine digluconate so...	CHB192972008	1
Caelo	Water	LOTAB0084	1
Caelo	Water	LOTAP	1
Caelo	Water	LOTAP0029	1
Caelo	Water	LOTAP0039	1
Caelo	Water	LOTAP0042	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Water	LOTAP0044	2
Caelo	Water	LOTAP0050	1
Caelo	Water	LOTAP0052	1
Caelo	Water	LOTAP0055	1
Caelo	Water	LOTAP0075	1
Caelo	Water	LotAP0083	1
Caelo	Water	LOTAP0083	2
Caelo	Water	LOTAP0086	4
Caelo	Water	LOTAP0088	2
Caelo	Water	LOTAP0089	1
Caelo	Water	LOTAP0091	1
Caelo	Water	LotAp0094	1
Caelo	Water	LOTAP0094	2
Caelo	Water	LOTAP0095	1
Caelo	Water	LOTAP0098	1
Caelo	Water	LOTAP0104	1
Caelo	Water	LOTAP0123	1
Caelo	Water	LOTAP0134	3
Caelo	Water	LOTAP-SP0001	2
Caelo	Water	LOT-AP-SP0001	1
Caelo	Water	LOTAP-SP0002	1
Caelo	Water	LOTAP-SP0015	1
Caelo	Water	Nachreichen	1
Caelo	Water	T14-0707709	1
Caeol/Noweda	Chlorhexidine digluconate so...	16308801	1
Caeol/Sanacorp	Water	20004435001	4
Caeolo/Krieger	Chlorhexidine digluconate so...	17210101	1
Caeolo/Krieger	Chlorhexidine digluconate so...	17210105	1
Caeolo/Krieger	Chlorhexidine digluconate so...	17230801	1
Caeolo/Krieger	Chlorhexidine digluconate so...	18045903	4
Caeolo/Phoenix	Aluminium acetotartrate solu...	18078606	1
Caesa / Alliance Health...	Aluminium acetotartrate solu...	20164B	2
Caesar & Lorenz GmbH	Chlorhexidine digluconate so...	17230801	2
Caesar & Lorenz GmbH	Chlorhexidine digluconate so...	19080812	1
Caesar & Lorenz GmbH	Water	19152501	1
Caesar & Lorenz GmbH	Chlorhexidine digluconate so...	192972006	1
Caesar & Lorenz	Aluminium acetotartrate solu...	12318703	1
Caesar & Loretz /Gehe	Chlorhexidine digluconate so...	192972008	1
Caesar & Loretz /Sanacorp	Water	20003268001	4
Caesar & Loretz GmbH / ...	Chlorhexidine digluconate so...	19080808	1
Caesar & Loretz GmbH / ...	Chlorhexidine digluconate so...	17230801	1
Caesar & Loretz GmbH / ...	Water	18019501	1
Caesar & Loretz GmbH / ...	Chlorhexidine digluconate so...	19080808	1
Caesar & Loretz GmbH / ...	Water	21002424002	2
Caesar & Loretz GmbH / ...	Water	19152801	1
Caesar & Loretz GmbH / ...	Chlorhexidine digluconate so...	20000096009	1
Caesar & Loretz GmbH / ...	Chlorhexidine digluconate so...	18045903	1
Caesar & Loretz GmbH / ...	Chlorhexidine digluconate so...	18215601	1
Caesar & Loretz GmbH / ...	Water	20001119001	1
Caesar & Loretz GmbH / ...	Water	20002402001	1
Caesar & Loretz GmbH / ...	Chlorhexidine digluconate so...	18215610	1
Caesar & Loretz GmbH / ...	Water	19152801	1
Caesar & Loretz GmbH / ...	Chlorhexidine digluconate so...	192972002	1
Caesar & Loretz GmbH Hi...	Water	15394202	1
Caesar & Loretz GmbH Hi...	Water	16127902	1
Caesar & Loretz GmbH Ph...	Water	21001131002	1
Caesar & Loretz GmbH, G...	Water	21001407001	1
Caesar & Loretz GmbH/ ...	Chlorhexidine digluconate so...	20000960005	1
Caesar & Loretz GmbH/ A...	Chlorhexidine digluconate so...	19080818	1
Caesar & Loretz GmbH/ A...	Chlorhexidine digluconate so...	19080818	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/ A...	Chlorhexidine digluconate so...	192972002	1
Caesar & Loretz GmbH/ A...	Water	19F27-T13-0689009	1
Caesar & Loretz GmbH/ A...	Water	19F27-T13-068909	1
Caesar & Loretz GmbH/ A...	Chlorhexidine digluconate so...	21003821003	1
Caesar & Loretz GmbH/ A...	Water	T13-0689009	1
Caesar & Loretz GmbH/ A...	Chlorhexidine digluconate so...	15292508	1
Caesar & Loretz GmbH/ G...	Chlorhexidine digluconate so...	192972008	1
Caesar & Loretz GmbH/ G...	Water	20C27-T03-078151	2
Caesar & Loretz GmbH/ G...	Chlorhexidine digluconate so...	21000177008	1
Caesar & Loretz GmbH/ J...	Water	21001086001	1
Caesar & Loretz GmbH/ K...	Chlorhexidine digluconate so...	20000960004	1
Caesar & Loretz GmbH/ M...	Water	19207401	2
Caesar & Loretz GmbH/ N...	Chlorhexidine digluconate so...	19080808	1
Caesar & Loretz GmbH/ P...	Aluminium acetotartrate solu...	18288401	1
Caesar & Loretz GmbH/ P...	Chlorhexidine digluconate so...	20000960004	1
Caesar & Loretz GmbH/ S...	Chlorhexidine digluconate so...	192972002	1
Caesar & Loretz GmbH/AEP	Aluminium acetotartrate solu...	18288408	1
Caesar & Loretz GmbH/AHD	Chlorhexidine digluconate so...	19080818	1
Caesar & Loretz GmbH/AHD	Water	19152801	1
Caesar & Loretz GmbH/AHD	Water	20003879001	2
Caesar & Loretz GmbH/AHD	Water	20004435001	1
Caesar & Loretz GmbH/AHD	Water	20004436001	2
Caesar & Loretz GmbH/AHD	Water	21001065001	1
Caesar & Loretz GmbH/AHD	Water	21001131002	1
Caesar & Loretz GmbH/AHD	Chlorhexidine digluconate so...	21001487002	1
Caesar & Loretz GmbH/Al...	Water	18265001	1
Caesar & Loretz GmbH/Al...	Chlorhexidine digluconate so...	21001487001	1
Caesar & Loretz GmbH/An...	Water	19077601	2
Caesar & Loretz GmbH/An...	Chlorhexidine digluconate so...	19080807	1
Caesar & Loretz GmbH/Fi...	Aluminium acetotartrate solu...	18288408	1
Caesar & Loretz GmbH/Fi...	Chlorhexidine digluconate so...	19080818	2
Caesar & Loretz GmbH/Fi...	Water	19184201	1
Caesar & Loretz GmbH/Fi...	Water	19229401	1
Caesar & Loretz GmbH/Fi...	Water	19246201	1
Caesar & Loretz GmbH/Fi...	Chlorhexidine digluconate so...	192972008	1
Caesar & Loretz GmbH/Fi...	Water	20000526002	1
Caesar & Loretz GmbH/Fi...	Water	20003300001	1
Caesar & Loretz GmbH/gehe	Chlorhexidine digluconate so...	18215610	1
Caesar & Loretz GmbH/Gehe	Water	18228801	2
Caesar & Loretz GmbH/gehe	Aluminium acetotartrate solu...	18288408	1
Caesar & Loretz GmbH/Gehe	Chlorhexidine digluconate so...	19080812	2
Caesar & Loretz GmbH/Gehe	Water	19152701	1
Caesar & Loretz GmbH/Gehe	Water	19162701	1
Caesar & Loretz GmbH/Gehe	Water	19184201	1
Caesar & Loretz GmbH/Gehe	Water	19242101	2
Caesar & Loretz GmbH/Gehe	Water	19253401	2
Caesar & Loretz GmbH/Gehe	Chlorhexidine digluconate so...	192972008	1
Caesar & Loretz GmbH/Gehe	Chlorhexidine digluconate so...	20003241003	1
Caesar & Loretz GmbH/Ge...	Chlorhexidine digluconate so...	192972006	3
Caesar & Loretz GmbH/Go...	Aluminium acetotartrate solu...	18288404	1
Caesar & Loretz GmbH/Je...	Aluminium acetotartrate solu...	18288408	1
Caesar & Loretz GmbH/Je...	Water	18299501	1
Caesar & Loretz GmbH/Je...	Water	19005501	1
Caesar & Loretz GmbH/Je...	Water	19077701	1
Caesar & Loretz GmbH/Je...	Chlorhexidine digluconate so...	19080818	1
Caesar & Loretz GmbH/Je...	Water	19152501	1
Caesar & Loretz GmbH/Je...	Water	19152801	3
Caesar & Loretz GmbH/Je...	Chlorhexidine digluconate so...	192972002	1
Caesar & Loretz GmbH/Je...	Chlorhexidine digluconate so...	192972008	1
Caesar & Loretz GmbH/Kehr	Chlorhexidine digluconate so...	192972003	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH/Mi…	Water	18325001	3
Caesar & Loretz GmbH/Mi…	Water	19037701	2
Caesar & Loretz GmbH/Mi…	Water	19097801	1
Caesar & Loretz GmbH/Mi…	Water	19149201	6
Caesar & Loretz GmbH/No…	Water	18265001	1
Caesar & Loretz GmbH/No…	Aluminium acetotartrate solu…	18288408	2
Caesar & Loretz GmbH/No…	Water	19005601	1
Caesar & Loretz GmbH/No…	Water	19152801	2
Caesar & Loretz GmbH/No…	Chlorhexidine digluconate so…	192972002	1
Caesar & Loretz GmbH/No…	Chlorhexidine digluconate so…	192972003	1
Caesar & Loretz GmbH/No…	Chlorhexidine digluconate so…	192972008	1
Caesar & Loretz GmbH/No…	Water	20000526002	1
Caesar & Loretz GmbH/No…	Chlorhexidine digluconate so…	20000960009	3
Caesar & Loretz GmbH/No…	Water	20002402001	1
Caesar & Loretz GmbH/No…	Water	20002912001	1
Caesar & Loretz GmbH/No…	Chlorhexidine digluconate so…	21000177005	1
Caesar & Loretz GmbH/No…	Water	21000522001	2
Caesar & Loretz GmbH/No…	Chlorhexidine digluconate so…	21001487002	1
Caesar & Loretz GmbH/P	Chlorhexidine digluconate so…	19080818	1
Caesar & Loretz GmbH/P	Chlorhexidine digluconate so…	192972008	2
Caesar & Loretz GmbH/Phoe	Chlorhexidine digluconate so…	20000960009	1
Caesar & Loretz GmbH/Ph…	Aluminium acetotartrate solu…	18288408	1
Caesar & Loretz GmbH/Ph…	Chlorhexidine digluconate so…	18215601	1
Caesar & Loretz GmbH/Ph…	Water	20002911001	1
Caesar & Loretz GmbH/Ph…	Water	20003877003	1
Caesar & Loretz GmbH/Ph…	Water	20003878001	2
Caesar & Loretz GmbH/Ph…	Chlorhexidine digluconate so…	21003821003	1
Caesar & Loretz GmbH/Ph…	Aluminium acetotartrate solu…	18078606	1
Caesar & Loretz GmbH/Ph…	Aluminium acetotartrate solu…	18078611	1
Caesar & Loretz GmbH/Ph…	Water	18265001	1
Caesar & Loretz GmbH/Ph…	Aluminium acetotartrate solu…	18288401	1
Caesar & Loretz GmbH/Ph…	Water	19077501	1
Caesar & Loretz GmbH/Ph…	Chlorhexidine digluconate so…	192972006	5
Caesar & Loretz GmbH/Ph…	Chlorhexidine digluconate so…	20000960009	4
Caesar & Loretz GmbH/Ph…	Water	20003877001	1
Caesar & Loretz GmbH/Ph…	Chlorhexidine digluconate so…	21000177005	1
Caesar & Loretz GmbH/Ph…	Water	21002735001	1
Caesar & Loretz GmbH/Sa…	Water	18240101	1
Caesar & Loretz GmbH/Sa…	Aluminium acetotartrate solu…	19000719003	1
Caesar & Loretz GmbH/Sa…	Chlorhexidine digluconate so…	19080808	3
Caesar & Loretz GmbH/Sa…	Water	19274201	1
Caesar & Loretz GmbH/Sa…	Chlorhexidine digluconate so…	20000960009	1
Caesar & Loretz GmbH/Sa…	Water	20001039001	2
Caesar & Loretz GmbH/Sa…	Water	21000522001	1
Caesar & Loretz GmbH/Sp…	Chlorhexidine digluconate so…	19080808	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	16004504	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	16004505	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	16342006	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	17210112	1
Caesar & Loretz GmbH	Water	18042901	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	18045903	2
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	18078602	2
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	18078606	5
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	18078611	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	1811026-01	4
Caesar & Loretz GmbH	Water	18178302	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	18215601	7
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	18215602	5
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	18215610	11
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	18215612	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Water	18228801	1
Caesar & Loretz GmbH	Water	18228901	1
Caesar & Loretz GmbH	Water	18238601	1
Caesar & Loretz GmbH	Water	18240101	5
Caesar & Loretz GmbH	Water	18265001	8
Caesar & Loretz GmbH	Aluminium acetotartrate solu...	18288401	10
Caesar & Loretz GmbH	Aluminium acetotartrate solu...	18288404	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu...	18288408	9
Caesar & Loretz GmbH	Water	18299501	5
Caesar & Loretz GmbH	Water	18305301	4
Caesar & Loretz GmbH	Water	18305401	1
Caesar & Loretz GmbH	Water	18305501	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	18107-B04-353642	1
Caesar & Loretz GmbH	Water	18L19-T06-062853	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu...	19000719002	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu...	19000719003	11
Caesar & Loretz GmbH	Aluminium acetotartrate solu...	19000719007	6
Caesar & Loretz GmbH	Water	19005601	3
Caesar & Loretz GmbH	Water	19005602	1
Caesar & Loretz GmbH	Water	19037701	1
Caesar & Loretz GmbH	Water	19065102	3
Caesar & Loretz GmbH	Water	19077501	8
Caesar & Loretz GmbH	Water	19077601	9
Caesar & Loretz GmbH	Water	19077601x2	1
Caesar & Loretz GmbH	Water	19077701	3
Caesar & Loretz GmbH	Water	19077801	8
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	19080807	4
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	19080808	14
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	19080812	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	19080817	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	19080818	4
Caesar & Loretz GmbH	Water	19097901	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	19109-T07-071036	1
Caesar & Loretz GmbH	Water	19111701	1
Caesar & Loretz GmbH	Water	19133401	1
Caesar & Loretz GmbH	Water	19152501	4
Caesar & Loretz GmbH	Water	19152701	8
Caesar & Loretz GmbH	Water	19152801	13
Caesar & Loretz GmbH	Water	19184102	7
Caesar & Loretz GmbH	Water	19184201	5
Caesar & Loretz GmbH	Water	19198501	1
Caesar & Loretz GmbH	Water	19199101	1
Caesar & Loretz GmbH	Water	19229401	4
Caesar & Loretz GmbH	Water	19253401	4
Caesar & Loretz GmbH	Water	19263601	5
Caesar & Loretz GmbH	Water	19274201	2
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	192972002	8
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	192972006	4
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	192972008	14
Caesar & Loretz GmbH	Water	19E20-T09-067576	2
Caesar & Loretz GmbH	Water	19H12-T14-070779	1
Caesar & Loretz GmbH	Water	19J10-T09-072607	1
Caesar & Loretz GmbH	Water	200002379002	1
Caesar & Loretz GmbH	Water	200002402001	1
Caesar & Loretz GmbH	Water	20000412001	1
Caesar & Loretz GmbH	Water	20000526002	3
Caesar & Loretz GmbH	Water	20000853001	2
Caesar & Loretz GmbH	Water	20000934001	2
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	20000960004	10
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	20000960005	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	20000960009	19
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	2000096009	1
Caesar & Loretz GmbH	Water	20001036001	1
Caesar & Loretz GmbH	Water	20001039001	1
Caesar & Loretz GmbH	Water	20001119001	2
Caesar & Loretz GmbH	Water	20001293001	1
Caesar & Loretz GmbH	Water	200012930010	1
Caesar & Loretz GmbH	Water	20001629001	1
Caesar & Loretz GmbH	Water	20002402001	6
Caesar & Loretz GmbH	Water	20002447001	2
Caesar & Loretz GmbH	Water	20002745001	1
Caesar & Loretz GmbH	Water	20002783001	1
CAESAR & LORETZ GMBH	Water	20002783001	1
Caesar & Loretz GmbH	Water	20002910001	2
Caesar & Loretz GmbH	Water	20002911001	5
Caesar & Loretz GmbH	Water	20002912001	2
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	20003241003	5
Caesar & Loretz GmbH	Water	20003259001	1
Caesar & Loretz GmbH	Water	20003260001	1
Caesar & Loretz GmbH	Water	20003268001	1
Caesar & Loretz GmbH	Water	20003300001	4
Caesar & Loretz GmbH	Water	20003301001	3
Caesar & Loretz GmbH	Water	20003301002	2
Caesar & Loretz GmbH	Water	20003876001	2
Caesar & Loretz GmbH	Water	20003877001	3
Caesar & Loretz GmbH	Water	20003878001	6
Caesar & Loretz GmbH	Water	20003879001	1
Caesar & Loretz GmbH	Water	20004029001	2
CAESAR & LORETZ GMBH	Water	20004029001	1
Caesar & Loretz GmbH	Water	20004435001	4
Caesar & Loretz GmbH	Water	20004436001	2
Caesar & Loretz GmbH	Water	2001293001	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	200704401	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	21000177002	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	21000177003	3
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	21000177005	13
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	21000177008	4
Caesar & Loretz GmbH	Water	21000317001	2
Caesar & Loretz GmbH	Water	21000318001	1
Caesar & Loretz GmbH	Water	21001085001	1
Caesar & Loretz GmbH	Water	21001086001	2
Caesar & Loretz GmbH	Water	21001131002	1
Caesar & Loretz GmbH	Water	21001411001	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	21001487001	4
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	21001487002	8
Caesar & Loretz GmbH	Chlorhexidine digluconate so…	21001487004	1
Caesar & Loretz GmbH	Water	21001790001	2
Caesar & Loretz GmbH	Water	21001792001	2
Caesar & Loretz GmbH	Water	21002061001	1
Caesar & Loretz GmbH	Water	21002306001	1
Caesar & Loretz GmbH	Water	21002424002	2
CAESAR & LORETZ GMBH	Water	21002424002	1
Caesar & Loretz GmbH	Water	21002426001	1
Caesar & Loretz GmbH	Water	21002427001	1
Caesar & Loretz GmbH	Water	21002862001	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	21002880001	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	21002880003	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	21002881005	1
Caesar & Loretz GmbH	Aluminium acetotartrate solu…	21002881006	4
CAESAR & LORETZ GMBH	Water	21003115001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Water	21003422001	2
Caesar & Loretz GmbH	Water	21003472002	1
CAESAR & LORETZ GMBH	Water	21003609001	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	21003821003	3
Caesar & Loretz GmbH	Water	21004114001	1
Caesar & Loretz GmbH	Water	21004218001	1
Caesar & Loretz GmbH	Water	22000149001	2
Caesar & Loretz GmbH	Water	22000390001	1
CAESAR & LORETZ GMBH	Water	22000391	1
CAESAR & LORETZ GMBH	Water	22000391001	1
Caesar & Loretz GmbH	Water	22000392001	1
Caesar & Loretz GmbH	Water	22000955001	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	A-180630	1
Caesar & Loretz GmbH	Chlorhexidine digluconate so...	CS00201018	1
Caesar & Loretz GmbH	Water	LOTAP-SP0002	2
Caesar & Loretz Hilden	Water	18G16-T03-058126	1
Caesar & Loretz Hilden	Chlorhexidine digluconate so...	192972002	1
Caesar & Loretz/Geibo	Aluminium acetotartrate solu...	19000719003	1
Caesar & Loretz/Geileni...	Chlorhexidine digluconate so...	18215610	1
Caesar & Loretz/Geilenk...	Chlorhexidine digluconate so...	21000177005	1
Caesar & Loretz/Geilenk...	Water	19005602	1
Caesar & Loretz/Geilenk...	Chlorhexidine digluconate so...	19080808	3
Caesar & Loretz/Geilenk...	Chlorhexidine digluconate so...	192972002	2
Caesar & Loretz/Geilenk...	Chlorhexidine digluconate so...	20000960009	2
Caesar & Loretz/Noweda	Chlorhexidine digluconate so...	20000960009	1
Caesar & Loretz	Chlorhexidine digluconate so...	16002510	1
Caesar & Loretz	Water	17145001	3
Caesar & Loretz	Water	17173001	1
Caesar & Loretz	Chlorhexidine digluconate so...	18215601	1
Caesar u Loretz	Aluminium acetotartrate solu...	14252005	1
Caesar und Loretz /Gehe	Chlorhexidine digluconate so...	192972008	1
Caesar&Loretz GmbH/Anzag	Aluminium acetotartrate solu...	13101105	1
Caesar&Loretz GmbH/Anzag	Aluminium acetotartrate solu...	14252010	1
Caesar&Loretz GmbH	Aluminium acetotartrate solu...	18288408	1
Caesar&Loretz GmbH	Chlorhexidine digluconate so...	21000177005	1
Caesar&loretz,Phoenix	Aluminium acetotartrate solu...	12116804	1
Caesar&Loretz/Geilenkic...	Water	19077501	1
Caesar&Loretz	Water	19152801	1
Caleo/ Noweda	Water	16F13-T18-034301	1
Caleo/ Noweda	Chlorhexidine digluconate so...	19080808	1
Caleo/Fiebig	Aluminium acetotartrate solu...	1634	1
Caleo/Phönix	Water	19077501	1
Caleo/Sanacorp	Chlorhexidine digluconate so...	15292507	1
Calo/AHD	Aluminium acetotartrate solu...	13101105	1
Cealo / Noweda	Chlorhexidine digluconate so...	20000096009	1
Cealo/ Sanacorp	Chlorhexidine digluconate so...	16308801	1
Cealo/AHD	Aluminium acetotartrate solu...	15299909	1
Cealo/Anzag	Aluminium acetotartrate solu...	15299901	1
Cealo/Anzag	Aluminium acetotartrate solu...	18078606	1
Cealo/Gehe	Aluminium acetotartrate solu...	1800041	1
Cealo/Gehe	Water	LOTAP0086	1
Cealo/Noweda	Chlorhexidine digluconate so...	15292508	2
Cealo/Noweda	Water	18210601	1
Cealo/Noweda	Water	LOTAP0096	1
Cealo/Sanacorp	Chlorhexidine digluconate so...	17230801	1
Cealo	Chlorhexidine digluconate so...	14331307	1
Cealo	Chlorhexidine digluconate so...	16002505	1
Cealo	Water	20000412001	1
Celo	Chlorhexidine digluconate so...	110816-7	1
Chemica	Water		1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Chiesi GmbH	Water	16L12-T25-039642	1
Cordes/Gehe	Water	19077801	1
Delta	Water	18C19-T25-053991	1
Dr. Seeger GmbH/Noweda	Aluminium acetotartrate solu...	20146B	1
Dr. Seeger	Aluminium acetotartrate solu...	20153B	1
Dr. Wolff/ Noweda	Water	14K05-T02-016775	1
Dr.Seeger GmbH	Aluminium acetotartrate solu...		1
Dr.Seeger GmbH	Aluminium acetotartrate solu...	20153B	1
E Plus	Aluminium acetotartrate solu...	16342005	1
E Plus	Water	18156301	2
Ebert & Jacobi	Water	18042901	4
Ebert & Jacobi	Chlorhexidine digluconate so...	18215601	1
Ebert 04.04.2014	Water	15K10-T04-027614	1
Ebert/Fragron	Water	T04-0781504	1
Ebert/Hedinger	Aluminium acetotartrate solu...	20149B	1
Engelhard	Chlorhexidine digluconate so...	19L038A	1
E-Plus	Aluminium acetotartrate solu...	18078602	1
Eu Rho/ Gehe	Chlorhexidine digluconate so...	1412018-02	1
Eurho / Noweda	Chlorhexidine digluconate so...	1610022-01	2
Eurho / Noweda	Chlorhexidine digluconate so...	1701037-01	2
EuRho / Phoe	Chlorhexidine digluconate so...	1902010-01	1
EuRho / Phoe	Chlorhexidine digluconate so...	1902010-02	1
EuRho / Phönix	Chlorhexidine digluconate so...	1912015-01	1
EuRho/ Noweda	Chlorhexidine digluconate so...	CS00201018	1
EuRho/AHD	Chlorhexidine digluconate so...	1912015-01	1
EuRho/Fiebig	Chlorhexidine digluconate so...	1912015-01	1
EuRho/Gehe	Chlorhexidine digluconate so...	1708006-01	1
EuRho/Gehe	Chlorhexidine digluconate so...	1912015-01	1
EuRho/Gehe	Chlorhexidine digluconate so...	2108001-01	1
EuRho/Noweda	Chlorhexidine digluconate so...	17230801	1
EuRho/Noweda	Chlorhexidine digluconate so...	1908014-01	1
EuRho/Noweda	Aluminium acetotartrate solu...	20163B	2
eurho/Noweda	Chlorhexidine digluconate so...	CS-00170420	1
EuRho/Phoenix	Chlorhexidine digluconate so...	1811026-01	2
EuRho/Phönix	Chlorhexidine digluconate so...	1708006-01	3
EuRho/Phönix	Chlorhexidine digluconate so...	2007044-01	1
EuRho/Sanacorp	Chlorhexidine digluconate so...	1811026-01	2
EuRho/Sanacorp	Chlorhexidine digluconate so...	1912015-01	1
EuRho	Chlorhexidine digluconate so...	1105012-01	1
EuRho	Chlorhexidine digluconate so...	1206023-02	2
EuRho	Chlorhexidine digluconate so...	1308002-02	1
EuRho	Chlorhexidine digluconate so...	141201801	1
EuRho	Chlorhexidine digluconate so...	1412018-02	1
EuRho	Chlorhexidine digluconate so...	1701037	1
EuRho	Chlorhexidine digluconate so...	1708006-01	5
EuRho	Chlorhexidine digluconate so...	1708006-1	1
EuRho	Chlorhexidine digluconate so...	1712002-01	1
EuRho	Chlorhexidine digluconate so...	1712002-02	2
EuRho	Chlorhexidine digluconate so...	1811026-01	3
EuRho	Chlorhexidine digluconate so...	1902010-01	1
Eurho	Chlorhexidine digluconate so...	190801401	1
EuRho	Chlorhexidine digluconate so...	191201501	1
EuRho	Chlorhexidine digluconate so...	1912015-01	3
EuRho	Chlorhexidine digluconate so...	2007044-01	2
EuRho	Chlorhexidine digluconate so...	2108001-01	1
Euro OCT/Noweda	Water	16L12-T31-039661	2
Euro OCT	Chlorhexidine digluconate so...	3-8962-3-01-24	1
Euro OTC	Chlorhexidine digluconate so...		3
Euro OTC	Chlorhexidine digluconate so...	1020110-01	1
Euro OTC	Chlorhexidine digluconate so...	106023-02	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Chlorhexidine digluconate so...	1105012-01	1
Euro OTC	Chlorhexidine digluconate so...	1110012-01	1
Euro OTC	Aluminium acetotartrate solu...	11172602	1
Euro OTC	Chlorhexidine digluconate so...	120201001	1
Euro OTC	Chlorhexidine digluconate so...	1202010-01	8
Euro OTC	Chlorhexidine digluconate so...	120355	2
Euro OTC	Chlorhexidine digluconate so...	120602301	3
Euro OTC	Chlorhexidine digluconate so...	1206023-01	14
Euro OTC	Chlorhexidine digluconate so...	1206023-02	26
Euro OTC	Chlorhexidine digluconate so...	12K22-N09	1
Euro OTC	Chlorhexidine digluconate so...	130002-01	1
Euro OTC	Chlorhexidine digluconate so...	1308002	1
Euro OTC	Chlorhexidine digluconate so...	130800201	4
Euro OTC	Chlorhexidine digluconate so...	1308002-01	26
Euro OTC	Chlorhexidine digluconate so...	130800202	1
Euro OTC	Chlorhexidine digluconate so...	1308002-02	29
Euro OTC	Aluminium acetotartrate solu...	13378701	1
Euro OTC	Chlorhexidine digluconate so...	13D16-N04	1
Euro OTC	Chlorhexidine digluconate so...	13KB062888448	1
Euro OTC	Chlorhexidine digluconate so...	141201801	1
Euro OTC	Chlorhexidine digluconate so...	1412018-01	26
Euro OTC	Chlorhexidine digluconate so...	1412018-02	39
Euro OTC	Chlorhexidine digluconate so...	1412018801	1
Euro OTC	Chlorhexidine digluconate so...	141218-01	1
Euro OTC	Chlorhexidine digluconate so...	15008022-01	1
Euro OTC	Chlorhexidine digluconate so...	1505022-01	1
Euro OTC	Chlorhexidine digluconate so...	150802-01	1
Euro OTC	Chlorhexidine digluconate so...	1508022_02	1
Euro OTC	Chlorhexidine digluconate so...	150802201	3
Euro OTC	Chlorhexidine digluconate so...	1508022-01	36
Euro OTC	Chlorhexidine digluconate so...	150802202	1
Euro OTC	Chlorhexidine digluconate so...	1508022-02	13
Euro OTC	Chlorhexidine digluconate so...	1508022-22	1
Euro OTC	Chlorhexidine digluconate so...	1508072-02	1
Euro OTC	Chlorhexidine digluconate so...	150822-02	1
Euro OTC	Chlorhexidine digluconate so...	151103	1
Euro OTC	Chlorhexidine digluconate so...	151103-01	1
Euro OTC	Chlorhexidine digluconate so...	151103301	2
Euro OTC	Chlorhexidine digluconate so...	1511033-01	80
Euro OTC	Chlorhexidine digluconate so...	1511033-02	20
Euro OTC	Chlorhexidine digluconate so...	15110343-02	1
Euro OTC	Chlorhexidine digluconate so...	15131505	1
Euro OTC	Water	15L15-T07-028685	1
Euro OTC	Aluminium acetotartrate solu...	16004512	1
Euro OTC	Chlorhexidine digluconate so...	16089222	1
Euro OTC	Chlorhexidine digluconate so...	1610021	1
Euro OTC	Chlorhexidine digluconate so...	1610021_01	1
Euro OTC	Chlorhexidine digluconate so...	161002101	2
Euro OTC	Chlorhexidine digluconate so...	1610021-01	33
Euro OTC	Chlorhexidine digluconate so...	161002201	1
Euro OTC	Chlorhexidine digluconate so...	1610022-01	25
Euro OTC	Water	16307601	1
Euro OTC	Chlorhexidine digluconate so...	16E09-B03-320995	1
Euro OTC	Water	16F13-T18-034301	1
Euro OTC	Water	16L12-T11-039624	1
Euro OTC	Water	16L12-T16-39628	1
Euro OTC	Chlorhexidine digluconate so...	170103-02	1
Euro OTC	Chlorhexidine digluconate so...	1701037	4
Euro OTC	Chlorhexidine digluconate so...	1701037-01	13
Euro OTC	Chlorhexidine digluconate so...	170103702	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Chlorhexidine digluconate so…	1701037-02	53
Euro OTC	Chlorhexidine digluconate so…	1703006-01	1
Euro OTC	Chlorhexidine digluconate so…	17080006	1
Euro OTC	Chlorhexidine digluconate so…	17080006-01	1
Euro OTC	Chlorhexidine digluconate so…	17080006-02	2
Euro OTC	Chlorhexidine digluconate so…	1708006	1
Euro OTC	Chlorhexidine digluconate so…	1708006_02	1
Euro OTC	Chlorhexidine digluconate so…	170800601	1
Euro OTC	Chlorhexidine digluconate so…	1708006-01	45
Euro OTC	Chlorhexidine digluconate so…	170800602	1
Euro OTC	Chlorhexidine digluconate so…	1708006-02	41
Euro OTC	Chlorhexidine digluconate so…	171002-02	1
Euro OTC	Chlorhexidine digluconate so…	1712002	2
Euro OTC	Chlorhexidine digluconate so…	171200201	2
Euro OTC	Chlorhexidine digluconate so…	1712002-01	51
Euro OTC	Chlorhexidine digluconate so…	171200202	2
Euro OTC	Chlorhexidine digluconate so…	1712002-02	26
Euro OTC	Water	17295701	1
Euro OTC	Water	17E05-T13-044080	2
Euro OTC	Chlorhexidine digluconate so…	17E09-B01-335137	1
Euro OTC	Water	18042901	1
Euro OTC	Chlorhexidine digluconate so…	18045906	1
Euro OTC	Chlorhexidine digluconate so…	1808014-01	1
Euro OTC	Chlorhexidine digluconate so…	181028-01	1
Euro OTC	Water	18109201	1
Euro OTC	Chlorhexidine digluconate so…	1811026	3
Euro OTC	Chlorhexidine digluconate so…	1811026_01	1
Euro OTC	Chlorhexidine digluconate so…	181102601	1
Euro OTC	Chlorhexidine digluconate so…	1811026-01	96
Euro OTC	Chlorhexidine digluconate so…	1811028-01	1
Euro OTC	Chlorhexidine digluconate so…	18215601	1
Euro OTC	Chlorhexidine digluconate so…	1825601	1
Euro OTC	Chlorhexidine digluconate so…	18C05-B04-349427	1
Euro OTC	Water	18C19T29054007	1
Euro OTC	Water	18E09-T01-055708	1
Euro OTC	Water	18124-T14-060238	1
Euro OTC	Chlorhexidine digluconate so…	1900201001	1
Euro OTC	Chlorhexidine digluconate so…	1902010	1
Euro OTC	Chlorhexidine digluconate so…	190201001	1
Euro OTC	Chlorhexidine digluconate so…	1902010-01	47
Euro OTC	Chlorhexidine digluconate so…	1902010-02	19
Euro OTC	Chlorhexidine digluconate so…	1902014-01	1
Euro OTC	Chlorhexidine digluconate so…	190210-01	1
Euro OTC	Chlorhexidine digluconate so…	19080114-01	1
Euro OTC	Chlorhexidine digluconate so…	1908014-01	41
Euro OTC	Chlorhexidine digluconate so…	19080817	1
Euro OTC	Chlorhexidine digluconate so…	191201501	2
Euro OTC	Chlorhexidine digluconate so…	1912015-01	66
Euro OTC	Water	20001119001	1
Euro OTC	Chlorhexidine digluconate so…	200704401	3
Euro OTC	Chlorhexidine digluconate so…	2007044-01	82
Euro OTC	Chlorhexidine digluconate so…	2007044-02	7
Euro OTC	Chlorhexidine digluconate so…	20070441-01	1
Euro OTC	Aluminium acetotartrate solu…	20154B	1
Euro OTC	Aluminium acetotartrate solu…	20157B	1
Euro OTC	Chlorhexidine digluconate so…	210800101	1
Euro OTC	Chlorhexidine digluconate so…	2108001-01	16
Euro OTC	Chlorhexidine digluconate so…	2108001-02	4
Euro OTC	Chlorhexidine digluconate so…	2108001-021	1
Euro OTC	Chlorhexidine digluconate so…	220428(2108001-02)	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Chlorhexidine digluconate so...	2802	1
Euro OTC	Chlorhexidine digluconate so...	282215	1
Euro OTC	Aluminium acetotartrate solu...	291162B	1
Euro OTC	Chlorhexidine digluconate so...	36(1701037-02)	1
Euro OTC	Chlorhexidine digluconate so...	37(1708006-02)	1
Euro OTC	Chlorhexidine digluconate so...	38(1811026-01)	1
Euro OTC	Chlorhexidine digluconate so...	3-8962-03-21	1
Euro OTC	Chlorhexidine digluconate so...	3896220404	1
Euro OTC	Chlorhexidine digluconate so...	3896250214	1
Euro OTC	Chlorhexidine digluconate so...	3896260321	1
Euro OTC	Chlorhexidine digluconate so...	3-8962-6-03-21	4
Euro OTC	Chlorhexidine digluconate so...	3896270218	4
Euro OTC	Chlorhexidine digluconate so...	3896270218-01	1
Euro OTC	Chlorhexidine digluconate so...	3-8962-7-02-39	5
Euro OTC	Chlorhexidine digluconate so...	811026-01	1
Euro OTC	Chlorhexidine digluconate so...	912015-01	1
Euro OTC	Chlorhexidine digluconate so...	A-180063	1
Euro OTC	Chlorhexidine digluconate so...	CS00170420	1
Euro OTC	Chlorhexidine digluconate so...	CS-00170420	1
Euro OTC	Chlorhexidine digluconate so...	cs00201018	1
Euro OTC	Chlorhexidine digluconate so...	CS00201018	2
Euro OTC	Chlorhexidine digluconate so...	CS-00201018	1
Euro OTC	Chlorhexidine digluconate so...	CS-00250919	1
Euro OTC	Water	F180012	1
Euro OTC	Chlorhexidine digluconate so...	s-8962-6-03-21	1
Euro/ Phönix	Chlorhexidine digluconate so...	1610021-01	1
euro//Noweda	Chlorhexidine digluconate so...	1708006-02	1
Euro/Anzag	Chlorhexidine digluconate so...	1701037-02	1
Euro/Phönix	Chlorhexidine digluconate so...	161002101	2
Euro/Phönix	Chlorhexidine digluconate so...	181102601	1
Euro/Phönix	Chlorhexidine digluconate so...	18215610	1
Euro/Phönix	Chlorhexidine digluconate so...	1908014	1
Euro	Chlorhexidine digluconate so...	1412018-0	1
EuroPharm	Chlorhexidine digluconate so...	2108001-01	1
EuroPTC/Phönix	Chlorhexidine digluconate so...	1412018-01	1
Evonic	Chlorhexidine digluconate so...	1308002-02	2
Evonik Technochem. GmbH	Chlorhexidine digluconate so...	1610021-01	1
Evonik Technochem	Chlorhexidine digluconate so...	1412018-01	1
Evonik/Technochem-Sanac...	Chlorhexidine digluconate so...	1412018-02	1
Evonik	Chlorhexidine digluconate so...	1511033-01	1
Evonik	Chlorhexidine digluconate so...	3896220404	1
FA.Hedinger	Aluminium acetotartrate solu...	20159B	1
Fagon / AHD	Chlorhexidine digluconate so...	18C05-B04-349428	1
Fagon / AHD	Chlorhexidine digluconate so...	18C05-B04-349541	1
Fagon	Chlorhexidine digluconate so...	15I03-B02-314177	1
Fagreo / Sanacorp	Water	19J14T10072699	1
Fagro/ Noweda	Chlorhexidine digluconate so...	13K26-B06-289365	1
Fagro/AHD	Chlorhexidine digluconate so...	1412018-02	1
Fagro/Gehe Verbund	Water	19J14-T06-072685	1
Fagro/Gehe	Water	18C19-T29-054007	3
Fagron	Water		6
Fagron	Chlorhexidine digluconate so...	10031503	1
Fagron	Chlorhexidine digluconate so...	100400008	1
Fagron	Chlorhexidine digluconate so...	10071703	1
Fagron	Chlorhexidine digluconate so...	103311262	1
Fagron	Chlorhexidine digluconate so...	1081403	1
Fagron	Chlorhexidine digluconate so...	10J06-M04	1
Fagron	Chlorhexidine digluconate so...	11081502	1
Fagron	Chlorhexidine digluconate so...	1112013D	1
Fagron	Chlorhexidine digluconate so...	11K09-N05	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Chlorhexidine digluconate so…	11L05-N08	5
Fagron	Chlorhexidine digluconate so…	11L05-N080069/262	1
Fagron	Chlorhexidine digluconate so…	120201001	1
Fagron	Chlorhexidine digluconate so…	12021823	1
Fagron	Chlorhexidine digluconate so…	120355-ooo4	1
Fagron	Water	12-06556008	3
Fagron	Chlorhexidine digluconate so…	12114007	1
Fagron	Chlorhexidine digluconate so…	1213E-01262	1
Fagron	Water	12243501	1
Fagron	Chlorhexidine digluconate so…	12A02-11	1
Fagron	Chlorhexidine digluconate so…	12a02-n11	1
Fagron	Chlorhexidine digluconate so…	12A02-N11	7
Fagron	Chlorhexidine digluconate so…	12F01-N021	1
Fagron	Chlorhexidine digluconate so…	12f01-N21	1
Fagron	Chlorhexidine digluconate so…	12F01-N21	37
Fagron	Chlorhexidine digluconate so…	12H14N06	1
Fagron	Chlorhexidine digluconate so…	12H14-N06	19
Fagron	Chlorhexidine digluconate so…	12H-14-N06	1
Fagron	Chlorhexidine digluconate so…	12H14-No6	4
Fagron	Chlorhexidine digluconate so…	12H14-Noo6	1
Fagron	Chlorhexidine digluconate so…	12K0355	1
Fagron	Chlorhexidine digluconate so…	12K22-0005	1
Fagron	Chlorhexidine digluconate so…	12k22-n09	1
Fagron	Chlorhexidine digluconate so…	12K22-N09	20
Fagron	Water	13068909	2
Fagron	Chlorhexidine digluconate so…	13081204	1
Fagron	Chlorhexidine digluconate so…	13111704	1
Fagron	Chlorhexidine digluconate so…	13A29-N06	14
Fagron	Chlorhexidine digluconate so…	13A29-N060155/228	1
Fagron	Chlorhexidine digluconate so…	13d16-n04	1
Fagron	Chlorhexidine digluconate so…	13d16-N04	2
Fagron	Chlorhexidine digluconate so…	13D16-N04	9
Fagron	Chlorhexidine digluconate so…	13H19-801	1
Fagron	Chlorhexidine digluconate so…	13H19B01	1
Fagron	Chlorhexidine digluconate so…	13H19-B01	5
Fagron	Chlorhexidine digluconate so…	13h19b01285447	1
Fagron	Chlorhexidine digluconate so…	13H19-B01-285447	2
Fagron	Chlorhexidine digluconate so…	13H19-B01-285448	3
Fagron	Chlorhexidine digluconate so…	13H19-B01-285449	1
Fagron	Chlorhexidine digluconate so…	13H19B01285451	1
Fagron	Chlorhexidine digluconate so…	13H19-B01-285451	6
Fagron	Chlorhexidine digluconate so…	13H19-B01-285452	4
Fagron	Chlorhexidine digluconate so…	13H19-B01-285453	9
Fagron	Chlorhexidine digluconate so…	13H19-B01-CG-011	1
Fagron	Water	13K13-T08-008092	1
Fagron	Chlorhexidine digluconate so…	13K16B06288853	1
Fagron	Chlorhexidine digluconate so…	13k26-b06	2
Fagron	Chlorhexidine digluconate so…	13K26-B06	8
Fagron	Chlorhexidine digluconate so…	13K26-B06_289365	1
Fagron	Chlorhexidine digluconate so…	13K26-B06-288848	2
Fagron	Chlorhexidine digluconate so…	13K26-B06-288849	1
Fagron	Chlorhexidine digluconate so…	13K26-B06-288853	3
Fagron	Chlorhexidine digluconate so…	13K-26-B06-288853	1
Fagron	Chlorhexidine digluconate so…	13K26-B06-289365	7
Fagron	Chlorhexidine digluconate so…	13K26B06289366	1
Fagron	Chlorhexidine digluconate so…	13K26-B06-289366	1
Fagron	Chlorhexidine digluconate so…	14011017	1
Fagron	Chlorhexidine digluconate so…	14332309	1
Fagron	Chlorhexidine digluconate so…	14D25-B04	4
Fagron	Chlorhexidine digluconate so…	14D25-B04-294673	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Chlorhexidine digluconate so...	14D25-B04-294674	3
Fagron	Chlorhexidine digluconate so...	14D25-B04-294675	1
Fagron	Chlorhexidine digluconate so...	14D25-B04-299288	1
Fagron	Chlorhexidine digluconate so...	14D25-B04-299289	1
Fagron	Water	14F02-T03-012891	1
Fagron	Water	14J16-T24-016261	1
Fagron	Water	14K05-T02-016775	3
Fagron	Water	14K05-T03-016779	1
Fagron	Water	14K06-C20-16125	2
Fagron	Water	14L03-T03-017773	1
Fagron	Water	14L03-T07-017788	4
Fagron	Water	14L03T09017794	1
Fagron	Water	14L03-T09-017794	3
Fagron	Water	14L03-T11-017800	3
Fagron	Water	14L03-T113-017804	1
Fagron	Water	14L03T13017804	1
Fagron	Water	14L03-T13-017804	1
Fagron	Chlorhexidine digluconate so...	15/03-B02-313663	1
Fagron	Chlorhexidine digluconate so...	15/03-B02-315211	2
Fagron	Chlorhexidine digluconate so...	15/03-B02-315212	1
Fagron	Chlorhexidine digluconate so...	15/03-B02-315213	2
Fagron	Chlorhexidine digluconate so...	15/03-B02-316428	1
Fagron	Water	15/10-T08-025964	1
Fagron	Chlorhexidine digluconate so...	1503-802	1
Fagron	Chlorhexidine digluconate so...	1503B02314176	1
Fagron	Chlorhexidine digluconate so...	1503-B02-315213	1
Fagron	Chlorhexidine digluconate so...	1503B02316428	1
Fagron	Chlorhexidine digluconate so...	1503-B02-316428	1
Fagron	Water	15068702	1
Fagron	Water	15070784	1
Fagron	Water	1509-T02-024364	1
Fagron	Chlorhexidine digluconate so...	15103-B02-315213	1
Fagron	Chlorhexidine digluconate so...	1511033-01	2
Fagron	Chlorhexidine digluconate so...	1511033-02	2
Fagron	Chlorhexidine digluconate so...	15121406	1
Fagron	Chlorhexidine digluconate so...	15131505	2
Fagron	Chlorhexidine digluconate so...	15131509	1
Fagron	Chlorhexidine digluconate so...	15C03B02	2
Fagron	Chlorhexidine digluconate so...	15C03-B02-306308	2
Fagron	Water	15D13T07021465	1
Fagron	Water	15D13-T07-021465	2
Fagron	Water	15D13-T09-021469	6
Fagron	Water	15D14-T05	2
Fagron	Water	15D14-T05-021481	3
Fagron	Water	15D14-T06-021484	3
Fagron	Water	15D14-T09-021490	4
Fagron	Water	15D14-T10-021493	6
Fagron	Water	15D14-T114-021502	1
Fagron	Water	15D14-T13-021499	2
Fagron	Water	15D14-T14-021502	6
Fagron	Water	15D14-To5-021481	1
Fagron	Chlorhexidine digluconate so...	15E13B07309826	1
Fagron	Chlorhexidine digluconate so...	15E13-B07-309826	5
Fagron	Water	15E18-C20-16520	3
Fagron	Water	15F04-T03-023259	2
Fagron	Water	15F04-T03-023529	1
Fagron	Water	15F04-T05-023263	2
Fagron	Water	15F-24-023883	1
Fagron	Water	15F24-T01-023879	10
Fagron	Water	15F24T03-023883	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	15F24-T03-023883	4
Fagron	Chlorhexidine digluconate so…	15F30B05	1
Fagron	Chlorhexidine digluconate so…	15F30-B05	3
Fagron	Chlorhexidine digluconate so…	15F30-B05-30929	1
Fagron	Chlorhexidine digluconate so…	15F30-B05-309827	1
Fagron	Chlorhexidine digluconate so…	15F30-B05-309829	4
Fagron	Chlorhexidine digluconate so…	15F30-B05-311700	7
Fagron	Water	15G09-T02-024364	6
Fagron	Water	15G09-T04-024368	6
Fagron	Water	15h0-T09-025968	1
Fagron	Water	15H25-T14-025670	10
Fagron	Water	15H25-T16-025674	4
Fagron	Water	15H25-T18-025678	4
Fagron	Water	15h25-t21-025683	1
Fagron	Water	15H25-T21-025683	5
Fagron	Chlorhexidine digluconate so…	15I03-0006	1
Fagron	Chlorhexidine digluconate so…	15I03-B01-314176	1
Fagron	Chlorhexidine digluconate so…	15I03B02	1
Fagron	Chlorhexidine digluconate so…	15I03-B02	1
Fagron	Chlorhexidine digluconate so…	15I03-B02-0006	1
Fagron	Chlorhexidine digluconate so…	15I03-B02-313663	5
Fagron	Chlorhexidine digluconate so…	15I03B02314176	1
Fagron	Chlorhexidine digluconate so…	15I03-B02-314177	1
Fagron	Chlorhexidine digluconate so…	15I03-B02-315212	1
Fagron	Chlorhexidine digluconate so…	15I03-B02-315213	1
Fagron	Chlorhexidine digluconate so…	15I03-B02315552	1
Fagron	Chlorhexidine digluconate so…	15I03-B02-315552	8
Fagron	Chlorhexidine digluconate so…	15I03-B02-316428	1
Fagron	Chlorhexidine digluconate so…	15I03B02317319	2
Fagron	Chlorhexidine digluconate so…	15I03-B02317319	1
Fagron	Chlorhexidine digluconate so…	15I03-B02-317320	1
Fagron	Water	15I10-T08-025964	2
Fagron	Chlorhexidine digluconate so…	15I31-B02-313663	1
Fagron	Chlorhexidine digluconate so…	15J03-B02	1
Fagron	Chlorhexidine digluconate so…	15J03-B02-313663	1
Fagron	Chlorhexidine digluconate so…	15J03-B02-31555	1
Fagron	Chlorhexidine digluconate so…	15k03-B02-315552	1
Fagron	Water	15k10-t04-027614	1
Fagron	Water	15K10-T04-027614	10
Fagron	Water	15K10-T05-027617	1
Fagron	Water	15K10-T06-027620	3
Fagron	Water	15K10-T07-027623	1
Fagron	Water	15K10-T08-027626	1
Fagron	Chlorhexidine digluconate so…	15l03-B02-313663	1
Fagron	Chlorhexidine digluconate so…	15l03B02-315212	1
Fagron	Chlorhexidine digluconate so…	15l03-B02-315552	1
Fagron	Chlorhexidine digluconate so…	15L03-B02-315552	1
Fagron	Water	15L14T12028660	1
Fagron	Water	15L14-T12-028660	4
Fagron	Water	15L14T14028664	2
Fagron	Water	15L14-T14-028664	8
Fagron	Water	15L15-T01-0208672	1
Fagron	Water	15L15-T01-028672	7
Fagron	Water	15L15-T03-028676	5
Fagron	Water	15L15-T03-0286761042	1
Fagron	Water	15L15-T05-028681	6
Fagron	Water	15L15-T07	1
Fagron	Water	15L15T07-028685	1
Fagron	Water	15L15-T07-028685	8
Fagron	Water	15L-15T07028685	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	15L15-T07-028685	1
Fagron	Chlorhexidine digluconate so...	16002501	1
Fagron	Chlorhexidine digluconate so...	16002510	2
Fagron	Chlorhexidine digluconate so...	1610022-01	1
Fagron	Water	16286801	2
Fagron	Water	16313201	1
Fagron	Water	16810-T02-030206	1
Fagron	Chlorhexidine digluconate so...	16825-B98-318800	1
Fagron	Water	16B10-T02-030206	5
Fagron	Water	16B10T02030207	1
Fagron	Water	16B10-T02-030207	1
Fagron	Water	16B10-T03-030210	1
Fagron	Water	16B10-T04-030213	1
Fagron	Water	16B10-T05-030216	2
Fagron	Water	16B10-T05-03026	1
Fagron	Chlorhexidine digluconate so...	16B25-B98	1
Fagron	Chlorhexidine digluconate so...	16B25-B98-318799	1
Fagron	Chlorhexidine digluconate so...	16b25-b98-318800	1
Fagron	Chlorhexidine digluconate so...	16B25-B98-318800	5
Fagron	Water	16C22-T07-031410	2
Fagron	Water	16C22-T09-031414	7
Fagron	Water	16C23_t14-031432	1
Fagron	Water	16C23-C20	1
Fagron	Water	16C23-C20-17151	3
Fagron	Water	16C23-T06-031423	9
Fagron	Water	16C23-T06-31423	1
Fagron	Water	16C23-T08-031427	5
Fagron	Water	16C23-T08-31427	1
Fagron	Water	16C23-T14-031432	10
Fagron	Water	16C23-T16-031436	6
Fagron	Water	16C23-T-16-031436	1
Fagron	Water	16C23-T4-031432	1
Fagron	Chlorhexidine digluconate so...	16e09-b03	1
Fagron	Chlorhexidine digluconate so...	16E09-B03	5
Fagron	Chlorhexidine digluconate so...	16E09-B03-320995	6
Fagron	Chlorhexidine digluconate so...	16E09-B03-320996	3
Fagron	Chlorhexidine digluconate so...	16E09-B03-322382	3
Fagron	Chlorhexidine digluconate so...	16E09-B03-322464	2
Fagron	Chlorhexidine digluconate so...	16E09-B03-322465	2
Fagron	Chlorhexidine digluconate so...	16E09-B03-323873	1
Fagron	Chlorhexidine digluconate so...	16E09-B03-324024	3
Fagron	Water	16F13-T11-0342564	1
Fagron	Water	16F13T11034264	2
Fagron	Water	16F13-T11-034264	11
Fagron	Water	16F13T14034274	1
Fagron	Water	16F13-T14034274	1
Fagron	Water	16F13-T14-034274	6
Fagron	Water	16F13-T16-034279	1
Fagron	Water	16F13-T16-034297	5
Fagron	Water	16F13T18034301	2
Fagron	Water	16F13-T18-034301	15
Fagron	Water	16F13-TN-034264	1
Fagron	Water	16F14-t03-034317	1
Fagron	Water	16F14-T03-034317	7
Fagron	Water	16F14T05034321	1
Fagron	Water	16F14T05-034321	1
Fagron	Water	16F14-T05-034321	12
Fagron	Water	16f14-t07-034326	2
Fagron	Water	16F14-T07-034326	14
Fagron	Water	16f14-t09-034330	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	16F14-T09-034330	12
Fagron	Water	16F23-T06-045760	1
Fagron	Water	16G16-T01-058118	1
Fagron	Water	16H02-T01	1
Fagron	Water	16H02T01035743	1
Fagron	Water	16H02-T01-035743	9
Fagron	Chlorhexidine digluconate so...	16H23-B03	1
Fagron	Chlorhexidine digluconate so...	16H23-B03-329123	3
Fagron	Chlorhexidine digluconate so...	16H-23-B03-329123	1
Fagron	Water	16K25-C20	1
Fagron	Water	16K25C20-17409	1
Fagron	Water	16K25-C20-17409	4
Fagron	Water	16L12/T16/039628	1
Fagron	Water	16L12-T11-039624	7
Fagron	Water	16L12T16039628	1
Fagron	Water	16L12-T16-039628	7
Fagron	Water	16L12-T25-039642	12
Fagron	Water	16L12-T27-039646	20
Fagron	Water	16l12-t29-039657	1
Fagron	Water	16L12T29039657	2
Fagron	Water	16L12-T29-039657	5
Fagron	Water	16L12-T31-039661	6
Fagron	Water	16L12-T-31-039661	1
Fagron	Water	16L15-T07-028685	1
Fagron	Water	16L1-T27-039646	1
Fagron	Water	16L-T11-039624	1
Fagron	Chlorhexidine digluconate so...	1701037-01	1
Fagron	Chlorhexidine digluconate so...	1701037-02	1
Fagron	Chlorhexidine digluconate so...	17011310	1
Fagron	Chlorhexidine digluconate so...	1708006-01	2
Fagron	Chlorhexidine digluconate so...	1708006-02	1
Fagron	Water	17114801	1
Fagron	Chlorhexidine digluconate so...	17609-801-355140	1
Fagron	Water	17804	1
Fagron	Water	17810-T18-041564	2
Fagron	Water	17B10-T18	1
Fagron	Water	17B10-T18-041564	3
Fagron	Water	17B10T20041571	1
Fagron	Water	17B10-T20-041571	10
Fagron	Water	17B10-T27-041575	2
Fagron	Water	17B13-T02_041604	1
Fagron	Water	17B13-T02-041604	17
Fagron	Water	17B13-T02-04604	1
Fagron	Water	17B13-T04-041608	10
Fagron	Water	17C06-T09-042290	1
Fagron	Water	17c31-t05	1
Fagron	Water	17C31-T05	1
Fagron	Water	17C31-T05-043064	10
Fagron	Water	17e05_t05_044063	1
Fagron	Water	17E05-T01-044045	11
Fagron	Water	17E05-T03-044051	10
Fagron	Water	17E05T05044063	2
Fagron	Water	17E05-T05-044063	13
Fagron	Water	17E05-T07-044067	14
Fagron	Water	17E05-T11-044076	11
Fagron	Water	17E05-T13	1
Fagron	Water	17E05-T13-044080	16
Fagron	Chlorhexidine digluconate so...	17E09-B01	6
Fagron	Chlorhexidine digluconate so...	17E09-B01-335136	3
Fagron	Chlorhexidine digluconate so...	17E09-B01-335137	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Chlorhexidine digluconate so...	17E09-B01-335137/B	1
Fagron	Chlorhexidine digluconate so...	17e09-b01-335140	1
Fagron	Chlorhexidine digluconate so...	17E09B01335140	1
Fagron	Chlorhexidine digluconate so...	17E09-B01335140	1
Fagron	Chlorhexidine digluconate so...	17E09-B01-335140	13
Fagron	Water	17Eo5-To1-o44o45	1
Fagron	Water	17F23_T06_045760	1
Fagron	Water	17F23-T06045760	1
Fagron	Water	17F23-T06-045760	4
Fagron	Water	17F23-T07-045766	1
Fagron	Chlorhexidine digluconate so...	17G04-B01	3
Fagron	Chlorhexidine digluconate so...	17G04-B01-341690	1
Fagron	Chlorhexidine digluconate so...	17G04-B01-341691	2
Fagron	Water	17H14-T09-047709	1
Fagron	Water	17H14T15047721	1
Fagron	Water	17h24-709-047709	1
Fagron	Water	17H24-T09-047709	8
Fagron	Water	17H-24-T09-047709	1
Fagron	Water	17H24-T09-04773	1
Fagron	Water	17H24-T11-047713	12
Fagron	Water	17H24T13047717	1
Fagron	Water	17H24-T13-047717	19
Fagron	Water	17H24-T15-047721	8
Fagron	Water	17H24-Tn-047713	1
Fagron	Water	17H4-T13-047717	1
Fagron	Water	17j20-T03-051260	1
Fagron	Water	17K01-T01-048440	8
Fagron	Water	17K01-T02-049669	1
Fagron	Water	17K27-T09	1
Fagron	Water	17k27-T09-050544	1
Fagron	Water	17K27-T09-050544	19
Fagron	Water	17K27-T09-050544/107	1
Fagron	Water	17K27-T09-o5o44	1
Fagron	Water	17K27-T10-050547	14
Fagron	Water	17K27-T11-05052	1
Fagron	Water	17K27-T11-050522	1
Fagron	Water	17k27-t11-050552	1
Fagron	Water	17K27-T11-050552	11
Fagron	Water	17K27-T13-050552	1
Fagron	Water	17K27-T13-050577	15
Fagron	Water	17K27T14-050581	1
Fagron	Water	17K27-T14-050581	17
Fagron	Water	17K27-T14-05081	1
Fagron	Water	17K27T15050585	4
Fagron	Water	17K27-T15-050585	29
Fagron	Water	17K27-T15050585	1
Fagron	Water	17K27-T16_050588	1
Fagron	Water	17k27-t16-050588	1
Fagron	Water	17K27-T16-050588	15
Fagron	Water	17K7-T15-050585	1
Fagron	Water	17L20-T02-051254	3
Fagron	Water	17L20-T02-051255	7
Fagron	Water	17L20-T02-51254	1
Fagron	Water	17L20-T03-051259	2
Fagron	Water	17L20-T03-051260	1
Fagron	Chlorhexidine digluconate so...	18/07-B04-353642	2
Fagron	Chlorhexidine digluconate so...	18/07-B04-356580	1
Fagron	Water	18/24-T14-060238	2
Fagron	Water	18042901	2
Fagron	Chlorhexidine digluconate so...	18045903	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Chlorhexidine digluconate so...	18045906	1
Fagron	Chlorhexidine digluconate so...	18045907	1
Fagron	Chlorhexidine digluconate so...	1807B04355534	1
Fagron	Chlorhexidine digluconate so...	1807-B04-356582	1
Fagron	Chlorhexidine digluconate so...	1807-Berta04-356580	1
Fagron	Water	181019-T31-054017	1
Fagron	Chlorhexidine digluconate so...	18107-B04-353643	1
Fagron	Chlorhexidine digluconate so...	18107-B04-356582	1
Fagron	Water	18109201	2
Fagron	Water	18109301	1
Fagron	Water	18124-T14-060238	2
Fagron	Chlorhexidine digluconate so...	18A009-B05-344415	1
Fagron	Chlorhexidine digluconate so...	18A09B05	1
Fagron	Chlorhexidine digluconate so...	18A09-B05	1
Fagron	Chlorhexidine digluconate so...	18A09-b05-344414	1
Fagron	Chlorhexidine digluconate so...	18A09-B05-344414	2
Fagron	Chlorhexidine digluconate so...	18A09-B05-344415	4
Fagron	Chlorhexidine digluconate so...	18A09-B05-344604	10
Fagron	Chlorhexidine digluconate so...	18A09-B05-344604	1
Fagron	Chlorhexidine digluconate so...	18A09-B05-344605	1
Fagron	Water	18A16-T18-063538	1
Fagron	Chlorhexidine digluconate so...	18c05804	1
Fagron	Chlorhexidine digluconate so...	18C05-804	1
Fagron	Chlorhexidine digluconate so...	18C05-B004-351138	1
Fagron	Chlorhexidine digluconate so...	18C05B04	1
Fagron	Chlorhexidine digluconate so...	18C05-B04	5
Fagron	Chlorhexidine digluconate so...	18C05B04346797	1
Fagron	Chlorhexidine digluconate so...	18C05-B04-346797	4
Fagron	Chlorhexidine digluconate so...	18C05-B04-346798	2
Fagron	Chlorhexidine digluconate so...	18C05-B04-349427	1
Fagron	Chlorhexidine digluconate so...	18C05-B04-349428	1
Fagron	Chlorhexidine digluconate so...	18C05-B04-349429	3
Fagron	Chlorhexidine digluconate so...	18c05-b04-349430	1
Fagron	Chlorhexidine digluconate so...	18C05-B04349430	1
Fagron	Chlorhexidine digluconate so...	18C05-B04-349430	1
Fagron	Chlorhexidine digluconate so...	18C05-B04-349541	1
Fagron	Chlorhexidine digluconate so...	18C05-B04-351138	2
Fagron	Chlorhexidine digluconate so...	18C05-B04-351140	6
Fagron	Chlorhexidine digluconate so...	18C05-B04-351141	1
Fagron	Chlorhexidine digluconate so...	18C05-B04-352123	7
Fagron	Chlorhexidine digluconate so...	18C05-B04-352124	2
Fagron	Water	18C13-T14053736	1
Fagron	Water	18C13-T14-053736	4
Fagron	Water	18C13-T14-053737	8
Fagron	Water	18C13-T14-053757	1
Fagron	Water	18C13T15-053741	1
Fagron	Water	18C13-T15-053741	1
Fagron	Water	18c13T15053743	1
Fagron	Water	18C13-T16-053745	1
Fagron	Water	18C16-T04-058129	1
Fagron	Water	18C18-T30-054012	1
Fagron	Water	18C19_T26_053995	1
Fagron	Water	18C19-T25-05399	3
Fagron	Water	18C19-T25-053991	16
Fagron	Water	18C19-T26-053995	29
Fagron	Water	18C19-T27-053999	15
Fagron	Water	18c19-T28-054003	1
Fagron	Water	18C19-T28-054003	24
Fagron	Water	18C19-T29	1
Fagron	Water	18c19-T29-054007	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	18C19T29054007	1
Fagron	Water	18C19-T29-054007	14
Fagron	Water	18C19-T30-054012	33
Fagron	Water	18C19-T30-05401C	1
Fagron	Water	18C19T31054017	2
Fagron	Water	18C19-T31-054017	10
Fagron	Water	18C19T31054017I	1
Fagron	Water	18C19-T31-056017	1
Fagron	Water	18C19-T6-053995	1
Fagron	Chlorhexidine digluconate so...	18C5-B04-346799	1
Fagron	Water	18E07T08055699	2
Fagron	Water	18E07-T08-055699	32
Fagron	Water	18E09-09-T01-055708	1
Fagron	Water	18E09-T01_055708	1
Fagron	Water	18E09-T01-055708	8
Fagron	Water	18E09-T02-05511	1
Fagron	Water	18E09-T02-055711	17
Fagron	Water	18E-09-T02-055711	1
Fagron	Water	18E09-T02-055771	1
Fagron	Water	18E09-T02-05711	1
Fagron	Water	18E25-T01-056423	12
Fagron	Water	18E28-T01-056486	5
Fagron	Water	18E28-T01-056487	6
Fagron	Water	18E28-T02-056491	1
Fagron	Water	18E28-T-02-056491	1
Fagron	Water	18E679-0002	1
Fagron	Water	18g16-t01-058118	1
Fagron	Water	18G16-T01-058118	21
Fagron	Water	18G16-T02-028123	1
Fagron	Water	18G16T02058123	1
Fagron	Water	18G16-T02-058123	15
Fagron	Water	18G16-T02-058126	1
Fagron	Water	18g16-t03-058126	2
Fagron	Water	18G16-T03-058126	15
Fagron	Water	18G16-T03-0588126	1
Fagron	Water	18G16T04058129	1
Fagron	Water	18G16-T04-058129	28
Fagron	Water	18g16-t05-058126	1
Fagron	Water	18G16T05058132	1
Fagron	Water	18G16-T05-058132	21
Fagron	Water	18G16-To1-058118	1
Fagron	Water	18G16-To3-058126	1
Fagron	Water	18G16-To4-058129	2
Fagron	Water	18G6T05058132	1
Fagron	Chlorhexidine digluconate so...	18I07_B04_3565825	1
Fagron	Chlorhexidine digluconate so...	18I07-B	1
Fagron	Chlorhexidine digluconate so...	18I07-B04	2
Fagron	Chlorhexidine digluconate so...	18I07B04353642	1
Fagron	Chlorhexidine digluconate so...	18I07-B04-353642	3
Fagron	Chlorhexidine digluconate so...	18I07-B04-353643	2
Fagron	Chlorhexidine digluconate so...	18I07-B04-354794	7
Fagron	Chlorhexidine digluconate so...	18I07-b04-356580	1
Fagron	Chlorhexidine digluconate so...	18I07-B04-356580	4
Fagron	Chlorhexidine digluconate so...	18I07-B04-356581	1
Fagron	Chlorhexidine digluconate so...	18I07-B04356582	1
Fagron	Chlorhexidine digluconate so...	18I07-B04-356582	3
Fagron	Chlorhexidine digluconate so...	18I07-B04-356583	6
Fagron	Water	18I24-T14-060238	3
Fagron	Water	18I24-T14-060239	5
Fagron	Water	18I24-T15-060244	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	18J10	1
Fagron	Water	18J10-T01-0606845	1
Fagron	Water	18J10-T01-060845	29
Fagron	Chlorhexidine digluconate so…	18l07-B04-353643	1
Fagron	Water	18L19-T0-062854	1
Fagron	Water	18L19-T06-062853	9
Fagron	Water	18L19T06062854	2
Fagron	Water	18L19-T06-062854	3
Fagron	Water	18L19-T062853	1
Fagron	Water	18L19-T062854	1
Fagron	Water	18L19-T07-062857	10
Fagron	Water	18l24-T14-060239	1
Fagron	Water	19/10-T-09-072607	1
Fagron	Water	19/10-Tog-072607	1
Fagron	Water	19/14-T07-072690	3
Fagron	Water	19001-T01_065562	1
Fagron	Chlorhexidine digluconate so…	1902010-01	1
Fagron	Chlorhexidine digluconate so…	1909-1007-071038	1
Fagron	Chlorhexidine digluconate so…	1909-T07-071035	1
Fagron	Chlorhexidine digluconate so…	1909T07-071036	1
Fagron	Water	191029-T06-065512	1
Fagron	Chlorhexidine digluconate so…	19109-T07-071035	1
Fagron	Chlorhexidine digluconate so…	19109-T07-071037	1
Fagron	Chlorhexidine digluconate so…	19109-T07-071038	2
Fagron	Water	1929-T01-065497	1
Fagron	Water	19714-T03-072675	1
Fagron	Water	19A13-To8-063538	1
Fagron	Water	19A14-T10-072699	1
Fagron	Water	19A18	2
Fagron	Water	19a18-T01-063489	1
Fagron	Water	19A18-T01063489	1
Fagron	Water	19A18-T01-063489	24
Fagron	Water	19A18-T01-063531	1
Fagron	Water	19A18-T01-0693489	2
Fagron	Water	19A18-T02-063515	27
Fagron	Water	19A18-T06	1
Fagron	Water	19A18-T06-063528	35
Fagron	Water	19A18-T07	1
Fagron	Water	19A18-T07-06351	1
Fagron	Water	19A18-T07-063531	24
Fagron	Water	19a18-t08-063538	1
Fagron	Water	19A18T08063538	1
Fagron	Water	19A18T-08-063538	1
Fagron	Water	19A18-T08063538	1
Fagron	Water	19A18-T08-063538	23
Fagron	Water	19A-18-T08-063538	1
Fagron	Water	19A18-T11	2
Fagron	Water	19A18T11063541	2
Fagron	Water	19A18-T11-063541	20
Fagron	Water	19A18-TO1-063489	1
Fagron	Water	19A18TO2063518	1
Fagron	Water	19A18-To6-063528	2
Fagron	Water	19A18-TO6-O63528	1
Fagron	Water	19A19-T08-063538	1
Fagron	Water	19B06-T01-062865	1
Fagron	Water	19B06-T02-0621861	1
Fagron	Water	19B06-T02-062861	3
Fagron	Water	19C29-01-065497	1
Fagron	Water	19C29T01065497	1
Fagron	Water	19C29-T01-065497	29

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	19C29-T02	1
Fagron	Water	19C29-T02_065500	1
Fagron	Water	19c29-t02-065500	1
Fagron	Water	19C29-T02-065500	17
Fagron	Water	19C29-T05-065509	23
Fagron	Water	19C29T06065512	1
Fagron	Water	19C29-T06-065512	29
Fagron	Water	19C29-T07-065526	9
Fagron	Water	19C29T08065529	1
Fagron	Water	19C29-T08-065529	20
Fagron	Water	19C29-To7-065526	1
Fagron	Water	19c29to8o65529	1
Fagron	Water	19D01	1
Fagron	Water	19D01-AT09-065554	1
Fagron	Water	19D01-T08065551	1
Fagron	Water	19D01-T08-065551	27
Fagron	Water	19D01-T09-06554	1
Fagron	Water	19d01-T09-065554	1
Fagron	Water	19D01-T09-065554	19
Fagron	Water	19D01-T10-065562	27
Fagron	Water	19D01-T11-0655565	1
Fagron	Water	19D01T11065565	2
Fagron	Water	19D01-T11-065565	18
Fagron	Water	19D01-T12-065568	11
Fagron	Water	19D01TO9O65554	1
Fagron	Water	19D01-Tog-065554	3
Fagron	Water	19D08-T09-065554	1
Fagron	Water	19Do1-To9-o65554	1
Fagron	Water	19E20-T09_067576	1
Fagron	Water	19E20-T09-067576	3
Fagron	Water	19E20-T09-067577	2
Fagron	Water	19F27_T14-068914	1
Fagron	Water	19F27-T10-068900	15
Fagron	Water	19F27-T11-0689003	1
Fagron	Water	19f27-T11-068903	1
Fagron	Water	19F27-T11-068903	19
Fagron	Water	19F-27-T11-068903	1
Fagron	Water	19F27-T12068906	1
Fagron	Water	19F27-T12-068906	16
Fagron	Water	19F27-T13-068909	20
Fagron	Water	19F27-T-13-068909	1
Fagron	Water	19F27-T14-068914	11
Fagron	Water	19F-27-T14-068914	1
Fagron	Water	19F29-T10-068900	1
Fagron	Water	19G01-T02069130	1
Fagron	Water	19G04-T02-069129	5
Fagron	Water	19G04-T02-069130	3
Fagron	Water	19g18-t11-063541	1
Fagron	Water	19H12T14070779	1
Fagron	Water	19H12-T14-070779	3
Fagron	Water	19H-12-T14-070779	1
Fagron	Water	19H12-T15	2
Fagron	Water	19H12-T15-070784	8
Fagron	Water	19H12-T16-070787	24
Fagron	Water	19H14T07072690	1
Fagron	Water	19H16-F15	1
Fagron	Water	19H16-T-070943	1
Fagron	Water	19H16-T14-0709304	1
Fagron	Water	19H16T14070934	3
Fagron	Water	19H16-T14-070934	12

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	19H16T15070937	1
Fagron	Water	19H16-T15-070937	29
Fagron	Water	19H-16-T15-070937	5
Fagron	Water	19H16-T15-0709372x	1
Fagron	Water	19H16-T15-o7o937	1
Fagron	Water	19H16-T16_070940	1
Fagron	Water	19H16-T16-070940	9
Fagron	Water	19H-16-T16-070940	1
Fagron	Water	19H16-T16-0709400	1
Fagron	Water	19H16T17070943	2
Fagron	Water	19H16-T17070943	1
Fagron	Water	19H16-T17-070943	12
Fagron	Water	19H20-B06-194493	1
Fagron	Water	19h4-T06-072685	1
Fagron	Water	19h4-T07-072690	2
Fagron	Water	19h4-T10-072699	1
Fagron	Water	19ho-T09-072607	1
Fagron	Chlorhexidine digluconate so…	19I09-T07-071035	4
Fagron	Chlorhexidine digluconate so…	19I09-T07-071036	1
Fagron	Chlorhexidine digluconate so…	19I09-T07-071037	1
Fagron	Chlorhexidine digluconate so…	19I09-T07-071038	15
Fagron	Chlorhexidine digluconate so…	19I09-T07-071039	1
Fagron	Chlorhexidine digluconate so…	19I09-T07-071040	1
Fagron	Water	19J10-T02-072607	1
Fagron	Water	19J10-T07-072613	2
Fagron	Water	19J10-T08-072616	2
Fagron	Water	19J10-T09072607	1
Fagron	Water	19J10-T09-072607	11
Fagron	Water	19j10-t09-072608	1
Fagron	Water	19J10-T09-072608	7
Fagron	Water	19J10-Tog-072607	1
Fagron	Water	19J14	2
Fagron	Water	19J14-T03-0726705	1
Fagron	Water	19J14-T03-072675	14
Fagron	Water	19J14-T04-07267	1
Fagron	Water	19J14-T04-072678	18
Fagron	Water	19J14-T06	1
Fagron	Water	19J14-T06-0726805	3
Fagron	Water	19J14-T06-072685	26
Fagron	Water	19J14-T07_072690	2
Fagron	Water	19j14t07072690	1
Fagron	Water	19J14T07072690	1
Fagron	Water	19J14-T07-072690	10
Fagron	Water	19J14-T08-072639	1
Fagron	Water	19J14-T08-0726903	2
Fagron	Water	19J14T08072693	2
Fagron	Water	19J14-T08-072693	27
Fagron	Water	19J14-T09-072696	11
Fagron	Water	19J14-T10-072699	28
Fagron	Water	19J14-T12	1
Fagron	Water	19-j14-T12-072715	1
Fagron	Water	19J14-T12-072715	5
Fagron	Water	19j14-To6-072685	1
Fagron	Water	19J14-To6-072685	2
Fagron	Water	19j14-to7-072690	1
Fagron	Chlorhexidine digluconate so…	19l09-T07-071036	1
Fagron	Chlorhexidine digluconate so…	1SF30-B05-311700	1
Fagron	Water	20/03-T05-082482	1
Fagron	Water	20000418001	1
Fagron	Water	20000853001	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Aluminium acetotartrate solu…	20163B	1
Fagron	Aluminium acetotartrate solu…	20164B	4
Fagron	Chlorhexidine digluconate so…	20200112-1	1
Fagron	Chlorhexidine digluconate so…	204211262	1
Fagron	Chlorhexidine digluconate so…	204DB/1	1
Fagron	Water	2050917/17B10-T18-04	1
Fagron	Water	2080169	1
Fagron	Water	20B28-T023-076719	2
Fagron	Water	20B28-T03-076179	1
Fagron	Water	20B28-T03-0767109	1
Fagron	Water	20B28T03-076719	1
Fagron	Water	20B28-T03076719	1
Fagron	Water	20B28-T03-076719	29
Fagron	Water	20B28-T-03-076719	3
Fagron	Water	20B28-T03-76719	1
Fagron	Water	20B28-To3-076716	1
Fagron	Water	20B2B-T03-076719	1
Fagron	Water	20C17-T03-0775201	2
Fagron	Water	20C17T03077521	1
Fagron	Water	20C17T03-077521	1
Fagron	Water	20C17-T03-077521	15
Fagron	Water	20C17-T16-0077604	1
Fagron	Water	20C17-T16-0776004	1
Fagron	Water	20c17t16077604	1
Fagron	Water	20C17-T16-077604	15
Fagron	Water	20C17-T17-0776007	1
Fagron	Water	20c17-T17-077607	1
Fagron	Water	20C17T17077607	1
Fagron	Water	20C17-T17-077607	18
Fagron	Water	20C17T18077610	2
Fagron	Water	20C17-T18-077610	7
Fagron	Water	20C17-T19-077613	13
Fagron	Water	20C17-To3-077521	2
Fagron	Water	20C19-T13-077809	8
Fagron	Water	20C19-T14-077813	3
Fagron	Water	20c19t15077819	1
Fagron	Water	20C19T15077819	1
Fagron	Water	20C19-T15077819	1
Fagron	Water	20C19-T15-077819	12
Fagron	Water	20C19-T-15-077819	1
Fagron	Water	20C27-T03-0078151	1
Fagron	Water	20C27-T03-078151	6
Fagron	Water	20C27T04078154	2
Fagron	Water	20C27-T04-078154	26
Fagron	Water	20C27-T04-08154	1
Fagron	Water	20C31-T19-078892	1
Fagron	Water	20C7-T03-078151	1
Fagron	Water	20D06_T14_078564	1
Fagron	Water	20D06T14078564	1
Fagron	Water	20D06-T14-078564	21
Fagron	Water	20d06-T15-078567	1
Fagron	Water	20D06T15078567	2
Fagron	Water	20D06-T15-078567	9
Fagron	Water	20D06-T17-078573	4
Fagron	Water	20d08-t06-078666	1
Fagron	Water	20D08T06078666	3
Fagron	Water	20D08-T06-078666	10
Fagron	Water	20D14-T25-078895	3
Fagron	Water	20do6-t15-078567	1
Fagron	Water	20Do6-T17-078573	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	20Do8-T06-078666	1
Fagron	Water	20Do8-To6-078666	1
Fagron	Water	20E01T07-079947	1
Fagron	Water	20E03T05079934	1
Fagron	Water	20E03-T05-079934	1
Fagron	Water	20E04T02-079938	1
Fagron	Water	20E04-T02-079938	19
Fagron	Water	20E04-T03-0799401	1
Fagron	Water	20E04T03079941	1
Fagron	Water	20E04-T03-079941	21
Fagron	Water	20E04-T03-79941	1
Fagron	Water	20E04-T05-079944	11
Fagron	Water	20E04T07079947	1
Fagron	Water	20E04-T07-079947	9
Fagron	Water	20E12-T02-0801700	1
Fagron	Water	20E13-T02-080169	8
Fagron	Water	20E13-T02-08016g	1
Fagron	Water	20E13-T02-080170	1
Fagron	Water	20E13-T03-080173	4
Fagron	Water	20E13-T04-080176	4
Fagron	Water	20E25T08080560	1
Fagron	Water	20E25-T08-080560	12
Fagron	Water	20E25T080B0560	1
Fagron	Water	20E25-to8-080560	1
Fagron	Water	20F16	1
Fagron	Water	20f16_t06_081160	1
Fagron	Water	20f16t05081157	1
Fagron	Water	20f16-t05-081157	1
Fagron	Water	20F16T05081157	1
Fagron	Water	20F16-T05-081157	12
Fagron	Water	20F16T06081160	1
Fagron	Water	20F16-T06-081160	19
Fagron	Water	20F-16-T06-081160	1
Fagron	Water	20g14-t02-081559	1
Fagron	Water	20G14-T02-081559	9
Fagron	Water	20G14-T03-081562	1
Fagron	Water	20G14-T06-081572	1
Fagron	Water	20G14-T08-081578	2
Fagron	Water	20h4-T03-083242	2
Fagron	Water	20h4-T05-083248	2
Fagron	Water	20I03-T04-082478	2
Fagron	Water	20I03-T04-082479	1
Fagron	Water	20I03-T05-082482	2
Fagron	Water	20j14-T02-083239	1
Fagron	Water	20J14-T02-083239	9
Fagron	Water	20J14-T03	1
Fagron	Water	20J14T03083242	1
Fagron	Water	20J14-T03-083242	8
Fagron	Water	20J14-T04-083245	5
Fagron	Water	20J14-T05-083248	12
Fagron	Water	20J14-T05-083248u	1
Fagron	Water	20J14-T083239	1
Fagron	Water	20J14-T14-083300	9
Fagron	Water	20J14-T14-083301	2
Fagron	Water	20J14-To3-083242	1
Fagron	Water	20J14-To4-o83245	1
Fagron	Chlorhexidine digluconate so...	20K24-104-076652	1
Fagron	Chlorhexidine digluconate so...	20K24-r04-077175	1
Fagron	Chlorhexidine digluconate so...	20K24-T04-076652	1
Fagron	Chlorhexidine digluconate so...	20K24-T04-077122	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Chlorhexidine digluconate so...	20k24T04077175	1
Fagron	Chlorhexidine digluconate so...	20K24T04077175	1
Fagron	Chlorhexidine digluconate so...	20K24-T04-077175	10
Fagron	Chlorhexidine digluconate so...	20L02-T01-077172	1
Fagron	Chlorhexidine digluconate so...	20L02-T01-077176	2
Fagron	Chlorhexidine digluconate so...	20L02-T01-079643	2
Fagron	Chlorhexidine digluconate so...	20L02-T01-087089	1
Fagron	Water	20l03-T06-082486	2
Fagron	Water	20L22-T01	1
Fagron	Water	20L22-T01-085061	20
Fagron	Water	20L22-T02-085064	3
Fagron	Chlorhexidine digluconate so...	20LQ2-T01	1
Fagron	Water	21000522001	1
Fagron	Water	21002306001	1
Fagron	Chlorhexidine digluconate so...	2108001-01	1
Fagron	Water	21816-T07-086471	1
Fagron	Water	219167	1
Fagron	Water	21A06-T01-085199	4
Fagron	Water	21A06-T03-085205	9
Fagron	Water	21A06-T04-085208	6
Fagron	Water	21A06-T05-085211	4
Fagron	Water	21A06-T06-085214	7
Fagron	Water	21A06-T085211	2
Fagron	Water	21A06-To3-085205	1
Fagron	Chlorhexidine digluconate so...	21a27-t08-090064	1
Fagron	Chlorhexidine digluconate so...	21A27-T08-090064	1
Fagron	Water	21B16-T07	1
Fagron	Water	21B16-T07-086471	4
Fagron	Water	21B16-T07-08671	1
Fagron	Water	21B16-T08-086474	1
Fagron	Water	21B16-T09-086477	1
Fagron	Water	21C23-/06-087185	1
Fagron	Water	21C23-T06-0871805	1
Fagron	Water	21C23-T06-087185	13
Fagron	Water	21C23-T07-087188	6
Fagron	Water	21C23-T07-08788	1
Fagron	Water	21C24-T03-087197	5
Fagron	Water	21C24-T04-087200	4
Fagron	Water	21C24-T04-0872000	1
Fagron	Water	21C24-T05-087203	2
Fagron	Water	21C24-T09-087215	2
Fagron	Water	21C24To3087197	1
Fagron	Water	21D19T1008703	1
Fagron	Water	21D19-T10-087703	8
Fagron	Water	21D19-T11-087706	5
Fagron	Water	21G28-T24-090468	3
Fagron	Water	21G28-T25-090471	1
Fagron	Water	21L22-T02-093474	1
Fagron	Water	21L22-T03-093477	1
Fagron	Water	221B16-T06-086466	1
Fagron	Chlorhexidine digluconate so...	23121307	1
Fagron	Water	247025-0002	1
Fagron	Chlorhexidine digluconate so...	25051304	1
Fagron	Chlorhexidine digluconate so...	2512M01262	1
Fagron	Chlorhexidine digluconate so...	26091402	1
Fagron	Chlorhexidine digluconate so...	2612M01262	1
Fagron	Chlorhexidine digluconate so...	2614Q-01262	1
Fagron	Water	2918E-03019	1
Fagron	Water	2oDo8-To6-078666	1
Fagron	Chlorhexidine digluconate so...	2OK24-T04-077175	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	2x19H16-T15-070937	1
Fagron	Chlorhexidine digluconate so…	4111303	1
Fagron	Water	41608	1
Fagron	Water	44080	1
Fagron	Chlorhexidine digluconate so…	4513U1262	1
Fagron	Water	5079944	1
Fagron	Water	5-08324008	2
Fagron	Water	54007	1
Fagron	Water	54012	1
Fagron	Chlorhexidine digluconate so…	5x15I03-B02-3152120	1
Fagron	Water	6081160	1
Fagron	Chlorhexidine digluconate so…	6101801	1
Fagron	Chlorhexidine digluconate so…	6111210	1
Fagron	Water	65500	1
Fagron	Water	701679-0001	2
Fagron	Water	701679-0003	2
Fagron	Water	701679-T07-072690	1
Fagron	Water	70319-W	1
Fagron	Chlorhexidine digluconate so…	7051804	1
Fagron	Water	7-0726900	1
Fagron	Water	7-07269000	4
Fagron	Chlorhexidine digluconate so…	8041712	1
Fagron	Chlorhexidine digluconate so…	8051814	1
Fagron	Water	8-07269003	1
Fagron	Water	9-07269006	1
Fagron	Chlorhexidine digluconate so…	9081302	1
Fagron	Water	9C29T010654971	1
Fagron	Chlorhexidine digluconate so…	A-180063	2
Fagron	Chlorhexidine digluconate so…	A-180378	1
Fagron	Chlorhexidine digluconate so…	A180630	1
Fagron	Chlorhexidine digluconate so…	A180-630	1
Fagron	Chlorhexidine digluconate so…	A200604	1
Fagron	Chlorhexidine digluconate so…	AC05-B04-346798	1
Fagron	Water	Ap0048	1
Fagron	Water	AP0093	1
Fagron	Water	AP210526-09	1
Fagron	Water	AP-SP0003	1
Fagron	Chlorhexidine digluconate so…	B/127/20	3
Fagron	Water	B17C31-T05-043064	1
Fagron	Water	B19G04	1
Fagron	Water	B19G04-T02-069129	2
Fagron	Chlorhexidine digluconate so…	BK13-CG-011	3
Fagron	Chlorhexidine digluconate so…	BK13-CG-018	2
Fagron	Chlorhexidine digluconate so…	BK13-CG-285447	1
Fagron	Chlorhexidine digluconate so…	BK14-CG-003	2
Fagron	Chlorhexidine digluconate so…	BK14-CG-023	2
Fagron	Chlorhexidine digluconate so…	BK15CG001	1
Fagron	Chlorhexidine digluconate so…	BK15-CG-001	3
Fagron	Chlorhexidine digluconate so…	BK16CG005	1
Fagron	Chlorhexidine digluconate so…	BK16-CG-005	1
Fagron	Chlorhexidine digluconate so…	BK16-CG-011	1
Fagron	Chlorhexidine digluconate so…	BK17-CG-001	1
Fagron	Water	C17-T19-0077613	1
Fagron	Water	Fragon-T10-065562	1
Fagron	Water	J14-T02-083239	1
Fagron	Water	L22-T01-085061	1
Fagron	Water	LOTAP0048	1
Fagron	Water	LOTAP0072	3
Fagron	Water	LOTAP0083	2
Fagron	Water	LOTAP0114	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	LOTAP0120	1
Fagron	Water	T01-0851909	1
Fagron	Water	T02-0628601	2
Fagron	Water	T02-0655000	2
Fagron	Water	T02-0799308	2
Fagron	Water	T02-0801609	1
Fagron	Water	T02-0815509	3
Fagron	Water	T02-0832309	1
Fagron	Water	T03-0726705	3
Fagron	Water	T03-0767109	1
Fagron	Water	T03-0775201	4
Fagron	Water	T03-0799401	5
Fagron	Water	T03-0801703	5
Fagron	Water	T03-0815602	1
Fagron	Water	T03-0832402	2
Fagron	Water	T03-0852005	3
Fagron	Water	T03-085205	1
Fagron	Water	T03-0871907	2
Fagron	Chlorhexidine digluconate so...	T04-0771705	3
Fagron	Water	T04-0824708	1
Fagron	Water	T04-0824709	1
Fagron	Water	T04-0852008	2
Fagron	Water	T04-0872000	2
Fagron	Water	T05-0799404	2
Fagron	Water	T05-0811507	4
Fagron	Water	T05-0824802	1
Fagron	Water	T05-0832408	1
Fagron	Water	T05-0852101	2
Fagron	Water	T05-0872003	2
Fagron	Water	T06-0655102	1
Fagron	Water	T06-0726805	6
Fagron	Water	T06-0786606	2
Fagron	Water	T06-0811600	2
Fagron	Water	T06-0852104	2
Fagron	Water	T06-0871805	3
Fagron	Chlorhexidine digluconate so...	T06-0884700	1
Fagron	Chlorhexidine digluconate so...	T07-0710403	1
Fagron	Water	T07-0799407	2
Fagron	Water	T07-0864701	1
Fagron	Water	T07-0871808	1
Fagron	Water	T08-0655209	1
Fagron	Water	T08-0726903	7
Fagron	Water	T08-072693	1
Fagron	Water	T08-0805600	3
Fagron	Water	T08-0864704	3
Fagron	Water	t08-0872102	1
Fagron	Water	T08-0872102	1
Fagron	Chlorhexidine digluconate so...	T08-0884700	2
Fagron	Chlorhexidine digluconate so...	T08-0900604	2
Fagron	Water	T09-0675706	1
Fagron	Water	T09-0726007	2
Fagron	Water	T09-0726008	1
Fagron	Water	T09-072608	1
Fagron	Water	T09-0726906	1
Fagron	Water	T10-0726909	5
Fagron	Water	T10-0877003	3
Fagron	Water	T11-0689003	1
Fagron	Water	T11-0877006	2
Fagron	Water	T11-0929200	1
Fagron	Water	T12-0689006	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Water	T13-0689009	1
Fagron	Water	T13-0778009	2
Fagron	Water	T14-031432	1
Fagron	Water	T14-0602309	1
Fagron	Water	T14-0689104	1
Fagron	Water	T14-0707709	1
Fagron	Water	T14-0709304	2
Fagron	Water	T14-0778103	1
Fagron	Water	T14-0833000	1
Fagron	Water	T15-0707804	2
Fagron	Water	T15-0778109	5
Fagron	Water	T15-0785607	1
Fagron	Water	T16-0707807	2
Fagron	Water	T16-0709400	6
Fagron	Water	T1607094000	1
Fagron	Water	T16-0776004	7
Fagron	Water	T17-0709403	1
Fagron	Water	T17-0776007	7
Fagron	Water	T17-0785703	2
Fagron	Water	T1707B57003	1
Fagron	Water	T17-o785703	1
Fagron	Water	T19-0776103	7
Fagron	Water	T19-077613	1
Fagron	Water	T19-0788902	2
Fagron	Water	T24-0904608	2
Fagron	Water	To8-0805600	1
Fargon / Gehe	Water	15D14-T13-021499	1
Fargon / Gehe	Water	17B10-T27-041575	1
Fargon GmbH & Co.KG	Water	15K10-T07-027623	2
Fargon GmbH & Co.KG	Water	15K10-To4-027614	1
Fargon GmbH & Co.KG	Water	16B10-T04-030213	3
Fargon GmbH & Co.KG	Water	16F13-T16-034297	1
Fargon GmbH & Co.KG	Water	16F14-T07-034326	1
Fargon GmbH & Co.KG	Water	17B10-T20-041571	1
Fargon GmbH & Co.KG	Water	17E05-T03-044051	1
Fargon GmbH/Alliance	Water	21A06-T04-085208	1
Fargon/ Noweda	Chlorhexidine digluconate so...	12f01n21	1
Fargon/AHD	Chlorhexidine digluconate so...	18C05-B04	1
Fargon/Kehr	Water	15F04-T05-023263	1
Fargon/Kehr	Water	17B10-T20-041571	1
Fargon/Kehr	Water	17H24-T09-047709	1
Fargon/Kehr	Water	17L20-T02-051255	4
Fargon/Noweda	Water	15L15-T028676	1
Fargon/Phoenix	Water	18/24-T14-060239	1
Fargon/Phoenix	Water	18E28-T01-056486	1
Fargon/Phönix	Water	20I03-T04-082479	1
Fargon/Phönix	Water	20L22-T02-085064	1
Fargon/Sanacorp	Water	17K27-T14-050581	1
Fargon/Sanacorp	Water	18G16-T03-058126	2
Fargon	Chlorhexidine digluconate so...	12F01-N21	1
Fargon	Water	16L12T11039624	1
Fargon	Water	16l12-t31-039661	1
Fargon	Water	17e05-t07-044067	1
Fargon	Water	17K27-T13-050577	1
Fargon	Chlorhexidine digluconate so...	18A09-Bo5-344604	1
fargon	Water	19c29t07065526	1
Fargon	Water	303429	1
Fargron /Phönix	Water	19H16-T15-070937	1
Fargron/ Sanacorp	Chlorhexidine digluconate so...	17E09-B01335140	1
Fargron/ Sanacorp	Water	19d01t10065562	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Faron Sana	Water	20E13-T03-080173	1
Faron/Phoenix	Water	20J14-T02-0832309	1
Fiebig/Fagromn	Water	17H24-T09-047709	2
Fiebig/Farago	Water	17B10-T27-041575	1
Fiebig/Farago	Water	19A18-T08-063538	1
Fiebig	Chlorhexidine digluconate so...	1110012-01	1
Fiebig	Chlorhexidine digluconate so...	1511033-02	1
Fiebig	Chlorhexidine digluconate so...	15I03-B02-313663	1
Fiebig	Chlorhexidine digluconate so...	1610022-01	2
Fiebig	Water	16C22-T09-031414	1
Fiebig	Chlorhexidine digluconate so...	17230801	2
Fiebig	Water	17e05_t01_044045	1
Fiebig	Chlorhexidine digluconate so...	1811026-01	3
Fiebig	Chlorhexidine digluconate so...	18215610	1
Fiebig	Water	18228801	1
Fiebig	Water	18265001	1
Fiebig	Water	18G16-T03-058126	1
Fiebig	Water	19077501	1
Fiebig	Chlorhexidine digluconate so...	1912015-01	1
Fiebig	Aluminium acetotartrate solu...	20163B	5
Fiebig	Aluminium acetotartrate solu...	20165B	1
Finteler Apotheke	Chlorhexidine digluconate so...	1701037-01	1
Fischar/Anzag	Aluminium acetotartrate solu...	20152B	1
Fragon/ Gehe	Water	18G16-T04-058129	2
Fragon/ Gehe	Water	18G16T05058132	1
Fragon/ Phönix	Chlorhexidine digluconate so...	15C03-B02-306308	1
Fragon/Gehe	Water	19A19-T06-063528	1
Fragon/Phoenix	Water	15L14-T12-028660	1
Fragon/Phoenix	Water	15L4-T14-028664	1
Fragon/Phoenix	Water	17K27-T16-050588	1
Fragon/Phoenix	Chlorhexidine digluconate so...	18C05-B04-349428	1
Fragron /Gehe	Chlorhexidine digluconate so...	18B09-B05	1
Fragron /Gehe	Water	18C19-T27-053999	1
Fragron /Gehe	Water	18C19-T29-054007	1
Fragron /Gehe	Water	19A18-T01-063489	1
Fragron /Gehe	Water	19A18-T02-063515	1
Fragron /Gehe	Water	19A18-T07-063531	1
Fragron/Noweda	Water	17H24-T11-047713	1
Fragron	Water	15L15-T01-028672	1
Franz / Anzag	Aluminium acetotartrate solu...	(020)020	1
Franz GmbH / Phoenix	Aluminium acetotartrate solu...	201538	1
Franz GmbH / Phoenix	Aluminium acetotartrate solu...	20161B	1
Franz GmbH/Phönix	Aluminium acetotartrate solu...	20151B	1
Franz GmbH	Aluminium acetotartrate solu...	20152B	2
franz gmbh	Aluminium acetotartrate solu...	201538	1
Franz GmbH	Aluminium acetotartrate solu...	20153B	2
franz GmbH	Aluminium acetotartrate solu...	20155B	1
Franz GmbH	Aluminium acetotartrate solu...	20155B	3
Franz GmbH	Aluminium acetotartrate solu...	20161B	2
Franz GmbH	Aluminium acetotartrate solu...	20163B	2
Franz GmbH	Aluminium acetotartrate solu...	20166B	1
Franz GmbH	Aluminium acetotartrate solu...	2163B	1
Frau Brinn-Holtz	Chlorhexidine digluconate so...	15292507	1
Fresenius Kabi AG	Water	14PD6053	1
Fresenius Kabi AG	Water	14PM6014	1
Fresenius Kabi AG	Water	14RD6009	1
Fresenius Kabi/Phoenix	Water	145I21	1
Fresenius Kabi/Phoenix	Water	14LE20	3
Fresenius Kabi/Phönix	Water	14IL38	2
Fresenius Kabi/Phönix	Water	14KI21	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fresenius Kabi	Water	14PD6051	1
Fresenius	Water	13NLP021	1
Fresenius	Water	14KB1003	1
Galderma	Chlorhexidine digluconate so...	1511033-02	1
Gehe / Euroh	Chlorhexidine digluconate so...	2007044-01	1
GEHE 08.05	Aluminium acetotartrate solu...	20157B	1
GEHE 08.12.2014	Chlorhexidine digluconate so...	BK14-CG-003	1
Gehe 19.11.21 11,36EUR	Water	220110AP	1
Gehe 19.11.21 11,36EUR	Water	220111AP	1
GEHE 20.05.2014	Chlorhexidine digluconate so...	13136114	1
Gehe amax	Chlorhexidine digluconate so...	18I07-B04-356580	1
Gehe amax	Aluminium acetotartrate solu...	20160B	1
Gehe Kassel	Aluminium acetotartrate solu...	201568B	1
GEHE/ Braun	Water	8292Z96	1
Gehe/10.09.19	Water	19629-T02-065500	1
gehe/Apoident	Chlorhexidine digluconate so...	1508022-02	1
Gehe/Athenstaedt GmbH&C...	Aluminium acetotartrate solu...	180041	1
Gehe/EuRo	Chlorhexidine digluconate so...	1712002-01	1
Gehe/Hed/08.06.19	Aluminium acetotartrate solu...	20164B	1
Gehe/Hedinger	Aluminium acetotartrate solu...	20153B	1
Gehe/Hedinger	Aluminium acetotartrate solu...	20156B	1
Gehe/Hedinger	Aluminium acetotartrate solu...	201648	1
Gehe/Hedinger	Aluminium acetotartrate solu...	20164B	1
Gehe/Hedinger	Aluminium acetotartrate solu...	20165B	1
Gehe/Hedinger	Aluminium acetotartrate solu...	20166B	1
Gehe/Wepa	Water	LOTAP0076	1
Gehe/Wepa	Water	LOTAP0093	1
Gehe/Wepa	Water	LOTAP0100	1
Gehe/Wepa	Water	LOTAP0102	1
Gehe/Wepa	Water	LOTAP0111	1
Gehe	Chlorhexidine digluconate so...	1206023-02	2
Gehe	Chlorhexidine digluconate so...	12h14-n06	1
Gehe	Chlorhexidine digluconate so...	13136105	1
Gehe	Chlorhexidine digluconate so...	13136109	1
Gehe	Chlorhexidine digluconate so...	13136114	4
Gehe	Aluminium acetotartrate solu...	13378709	1
Gehe	Chlorhexidine digluconate so...	14331309	1
Gehe	Chlorhexidine digluconate so...	15/03-B02-313663	1
Gehe	Aluminium acetotartrate solu...	15045403	1
Gehe	Aluminium acetotartrate solu...	15045406	1
Gehe	Chlorhexidine digluconate so...	151103301	1
Gehe	Chlorhexidine digluconate so...	15131505	1
Gehe	Chlorhexidine digluconate so...	15131512	1
Gehe	Chlorhexidine digluconate so...	15292502	1
Gehe	Chlorhexidine digluconate so...	15292509	1
GEHE	Chlorhexidine digluconate so...	1610022-01	1
Gehe	Chlorhexidine digluconate so...	16308801	2
Gehe	Chlorhexidine digluconate so...	16308802	1
Gehe	Chlorhexidine digluconate so...	17210105	1
GEHE	Chlorhexidine digluconate so...	17210110	1
Gehe	Chlorhexidine digluconate so...	17210112	1
Gehe	Water	17319901	2
GEHE	Water	17B10-T27-041575	2
Gehe	Water	17H24-T11-047713	1
Gehe	Water	17H24-T13-047717	1
GEHE	Water	17H24-T13-047717	1
Gehe	Water	17H24-T15-047721	1
GEHE	Water	17H27-T10-050547	1
GEHE	Water	17K27-T15	1
Gehe	Aluminium acetotartrate solu...	180041	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Chlorhexidine digluconate so...	18045906	1
Gehe	Aluminium acetotartrate solu...	18078602	2
GEHE	Chlorhexidine digluconate so...	1811026-01	1
Gehe	Chlorhexidine digluconate so...	18215610	1
GEHE	Chlorhexidine digluconate so...	18215612	2
Gehe	Water	18299501	1
Gehe	Chlorhexidine digluconate so...	18C05-B04-349427	1
Gehe	Chlorhexidine digluconate so...	18C05-B04-351141	1
GEHE	Water	18E08-T01	1
GEHE	Water	18E09-T02-055711	1
GEHE	Water	18G16-T02	2
Gehe	Chlorhexidine digluconate so...	18107b04354794	1
Gehe	Chlorhexidine digluconate so...	1902010-01	1
GEHE	Chlorhexidine digluconate so...	1902010-02	1
Gehe	Chlorhexidine digluconate so...	1908014-01	1
Gehe	Chlorhexidine digluconate so...	19080807	1
Gehe	Chlorhexidine digluconate so...	19080808	1
Gehe	Chlorhexidine digluconate so...	19080812	1
Gehe	Chlorhexidine digluconate so...	1912015-01	1
GEHE	Water	19A18-T06	1
Gehe	Water	19A18-T06-063528	1
GEHE	Water	19A18-T07	1
Gehe	Water	19A18-T07-063531	1
GEHE	Water	19C29-T02-065500	2
GEHE	Water	19C29-T08-065529	2
GEHE	Water	19D01-T12-065568	1
Gehe	Water	19G04-T02-069129	1
Gehe	Water	19J14-T07-072690	2
Gehe	Water	20001628001	6
Gehe	Aluminium acetotartrate solu...	201528	1
Gehe	Aluminium acetotartrate solu...	20153B	1
Gehe	Aluminium acetotartrate solu...	20155B	1
Gehe	Aluminium acetotartrate solu...	20160B	2
GEHE	Aluminium acetotartrate solu...	20161B	1
Gehe	Aluminium acetotartrate solu...	20163B	4
GEHE	Aluminium acetotartrate solu...	20163B	1
GEHE	Aluminium acetotartrate solu...	20164B	2
GEHE	Aluminium acetotartrate solu...	20165B	3
Gehe	Aluminium acetotartrate solu...	20166B	2
Gehe	Water	20C17-T16-077604	1
Gehe	Water	20E25-T08-0805600	1
Gehe	Water	21002424002	1
Gehe	Aluminium acetotartrate solu...	21002881005	1
Gehe	Water	21A06-T01-085199	1
Gehe	Water	21C24-T03-087197	2
Gehe	Water	21C24-T04-087200	1
Gehe	Water	AP-SP0009	1
GEHE	Chlorhexidine digluconate so...	CS-00201018	1
Gehe	Water	LOTAP0098	1
Gehe	Water	LOTAP0107	1
Gehe	Water	LOTAp0139	1
Gehe	Water	T05-0872003	1
Gehe	Water	T06-0786606	2
Gehe	Water	T06-0852104	1
Geibo/ Fargron	Water	19A18-T02-063515	1
Geibo/ Fargron	Water	19d01-t11-065565	1
Geibo/Euro 15.03	Chlorhexidine digluconate so...	2108001-01	1
Geibo/Hedinger	Aluminium acetotartrate solu...	20160B	1
geile	Aluminium acetotartrate solu...	20154B	1
Geilenkirchen	Chlorhexidine digluconate so...	15131503	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Geilenkirchen	Water	17K27-T15-050851	1
GUMO	Chlorhexidine digluconate so...	190801401	1
GUMO	Chlorhexidine digluconate so...	1912015-01	1
GUMO	Water	21C24-T03-087191	1
GUMO	Water	21D19-T10-087703	1
GUMO	Chlorhexidine digluconate so...	CS-00201018	1
Haedinger	Aluminium acetotartrate solu...	20160B	1
Hageda	Aluminium acetotartrate solu...	20165B	2
Hänseler	Chlorhexidine digluconate so...		5
Hediger/Phönix	Aluminium acetotartrate solu...	20156B	1
hedingen	Aluminium acetotartrate solu...	20162b	1
Hedinger , Noweda	Aluminium acetotartrate solu...	20153B	1
Hedinger , Stuttgart	Aluminium acetotartrate solu...	20154B	1
Hedinger / 40	Aluminium acetotartrate solu...	20166B	1
Hedinger / AHD	Aluminium acetotartrate solu...	20163B	2
Hedinger / AHD	Water	219196	2
Hedinger / Alliance Hea...	Aluminium acetotartrate solu...	20165B	1
Hedinger / Anzag	Aluminium acetotartrate solu...	20160B	1
Hedinger / Gehe	Aluminium acetotartrate solu...	20152B	1
Hedinger / Gehe	Aluminium acetotartrate solu...	20154B	1
Hedinger / Gehe	Aluminium acetotartrate solu...	20155B	1
Hedinger / Gehe	Aluminium acetotartrate solu...	20156B	4
Hedinger / Gehe	Aluminium acetotartrate solu...	20157B	1
Hedinger / Gehe	Aluminium acetotartrate solu...	20161B	1
Hedinger / Gehe	Aluminium acetotartrate solu...	20163B	3
Hedinger / Gehe	Aluminium acetotartrate solu...	20164B	1
Hedinger / Gehe	Aluminium acetotartrate solu...	20165B	2
Hedinger / Gehe	Aluminium acetotartrate solu...	20166B	2
Hedinger / Gehe	Aluminium acetotartrate solu...	202165B	1
Hedinger / GEHE	Water	219129	1
Hedinger / Gehe	Aluminium acetotartrate solu...	3958/V09/15	1
Hedinger / Noweda	Aluminium acetotartrate solu...	201598	1
Hedinger / Noweda	Aluminium acetotartrate solu...	20160B	1
Hedinger / Noweda	Aluminium acetotartrate solu...	20161B	1
Hedinger / Noweda	Aluminium acetotartrate solu...	20166B	1
Hedinger / Phoenix	Aluminium acetotartrate solu...	20163B	2
Hedinger / Sanacorp	Aluminium acetotartrate solu...	20155B	1
Hedinger / Sanacorp	Aluminium acetotartrate solu...	20156B	1
Hedinger / sanacorp	Aluminium acetotartrate solu...	20166B	2
Hedinger / Sanacorp	Water	219183	1
Hedinger / Sanacorp	Water	219198	3
Hedinger / Sanacorp	Water	219206	1
Hedinger / Sanacorp	Water	219208	2
Hedinger / Sanacorp	Water	219218	2
Hedinger	Aluminium acetotartrate solu...	20150B	1
Hedinger	Aluminium acetotartrate solu...	20151B	1
Hedinger AHD 10.08.17 E...	Aluminium acetotartrate solu...	20162B	1
Hedinger Gehe	Aluminium acetotartrate solu...	20165B	1
Hedinger GmbH & Co. KG	Aluminium acetotartrate solu...	(020)020	1
Hedinger GmbH & Co. KG	Aluminium acetotartrate solu...	20163B	2
Hedinger GmbH &Co.KG	Aluminium acetotartrate solu...	20163B	1
Hedinger GmbH, Phoenix	Aluminium acetotartrate solu...	20162B	2
Hedinger GmbH/Noweda	Aluminium acetotartrate solu...	20166B	1
Hedinger Gmbh/Sanacorp	Aluminium acetotartrate solu...		1
Hedinger Gmbh/Sanacorp	Aluminium acetotartrate solu...	20165B	4
Hedinger Gmbh/Sanacorp	Aluminium acetotartrate solu...	20166B	4
Hedinger GmbH	Aluminium acetotartrate solu...	20160B	1
Hedinger GmbH	Aluminium acetotartrate solu...	20161B	1
Hedinger Phoenix	Water	219212	1
Hedinger Phönix	Aluminium acetotartrate solu...	201528	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger Phönix	Aluminium acetotartrate solu…	20153B	1
Hedinger Phönix	Aluminium acetotartrate solu…	20162B	1
Hedinger Phönix	Aluminium acetotartrate solu…	20163B	1
Hedinger Phönix	Aluminium acetotartrate solu…	20164B	2
Hedinger über Phoenix	Aluminium acetotartrate solu…	20155B	1
Hedinger über Phoenix	Aluminium acetotartrate solu…	20157B	1
Hedinger, Heiligebwiese…	Water		2
Hedinger, Heiligebwiese…	Water	219219	1
Hedinger, Heiligebwiese…	Water	219271	1
Hedinger, Heiligenwiese…	Aluminium acetotartrate solu…	20150B	1
Hedinger, Noweda	Aluminium acetotartrate solu…	20154B	1
Hedinger, Stuttgart	Aluminium acetotartrate solu…	20166B	2
Hedinger/ AHD	Aluminium acetotartrate solu…	20165B	1
Hedinger/ Anzag	Aluminium acetotartrate solu…	20161B	1
Hedinger/ G	Aluminium acetotartrate solu…	20164B	1
Hedinger/ Gehe	Aluminium acetotartrate solu…	20162B	1
Hedinger/ Gehe	Aluminium acetotartrate solu…	20163B	1
Hedinger/ Gehe	Aluminium acetotartrate solu…	20164B	1
Hedinger/ Gehe	Aluminium acetotartrate solu…	20165B	1
Hedinger/ GEHE	Aluminium acetotartrate solu…	20166B	1
Hedinger/ Jenne	Aluminium acetotartrate solu…	20165B	1
Hedinger/ Noweda	Aluminium acetotartrate solu…	20149B	1
Hedinger/ Noweda	Aluminium acetotartrate solu…	20156B	1
Hedinger/ Noweda	Aluminium acetotartrate solu…	20157B	1
Hedinger/ Noweda	Aluminium acetotartrate solu…	20159B	1
Hedinger/ Noweda	Water	219218	1
Hedinger/ Noweda	Water	219229	1
Hedinger/ Noweda	Water	219231	2
Hedinger/ Noweda	Water	219232	1
Hedinger/ Phönix	Aluminium acetotartrate solu…	20159B	1
Hedinger/ Sanacorp WE…	Aluminium acetotartrate solu…	20158B	1
Hedinger/ Sanacorp	Aluminium acetotartrate solu…	20150B	1
Hedinger/ Sanacorp	Aluminium acetotartrate solu…	20154B	1
Hedinger/ Sanacorp	Aluminium acetotartrate solu…	20159B	1
Hedinger/ Sanacorp	Aluminium acetotartrate solu…	20161B	2
Hedinger/ Sanacorp	Aluminium acetotartrate solu…	201638	2
Hedinger/ Sanacorp	Aluminium acetotartrate solu…	20163B	1
hedinger/ Sanacorp	Aluminium acetotartrate solu…	20163B5693	1
Hedinger/ Sanacorp	Water	AP0022	1
Hedinger/ VDL	Aluminium acetotartrate solu…	20163B	1
Hedinger/2	Aluminium acetotartrate solu…	201658	1
Hedinger/2	Aluminium acetotartrate solu…	20165B	1
Hedinger/2	Aluminium acetotartrate solu…	20166B	1
Hedinger/AHCA	Aluminium acetotartrate solu…	20163B	2
Hedinger/AHD	Aluminium acetotartrate solu…	201153B	1
Hedinger/AHD	Aluminium acetotartrate solu…	20146B	1
Hedinger/AHD	Aluminium acetotartrate solu…	20152B	2
Hedinger/AHD	Aluminium acetotartrate solu…	20160B	1
Hedinger/AHD	Aluminium acetotartrate solu…	201638	1
Hedinger/AHD	Aluminium acetotartrate solu…	20163B	2
Hedinger/AHD	Aluminium acetotartrate solu…	20165B	2
Hedinger/AHD	Aluminium acetotartrate solu…	20166B	1
Hedinger/AHD	Aluminium acetotartrate solu…	2164B	1
Hedinger/Alliance Healt…	Aluminium acetotartrate solu…	20159B	1
Hedinger/Alliance Healt…	Water	219231	1
Hedinger/Alliance	Aluminium acetotartrate solu…	20161B	2
Hedinger/Alliance	Aluminium acetotartrate solu…	20166B	1
hedinger/anzag	Aluminium acetotartrate solu…	20152B	1
hedinger/anzag	Aluminium acetotartrate solu…	20153b	1
Hedinger/Anzag	Aluminium acetotartrate solu…	20157B	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Anzag	Aluminium acetotartrate solu…	20159B	1
Hedinger/Anzag	Aluminium acetotartrate solu…	20160B	1
Hedinger/Anzag	Aluminium acetotartrate solu…	20161B	2
Hedinger/Ebert	Aluminium acetotartrate solu…	20157B	1
Hedinger/Ebert	Aluminium acetotartrate solu…	20162B	1
Hedinger/Ebert	Aluminium acetotartrate solu…	20163B	1
Hedinger/EJ	Aluminium acetotartrate solu…	20163B	2
Hedinger/Fiebig	Aluminium acetotartrate solu…	20161B	1
Hedinger/Fiebig	Aluminium acetotartrate solu…	20162B	4
Hedinger/Fiebig	Water	219140	1
Hedinger/Fiebig	Water	219208	1
Hedinger/Fiebig	Water	219229	1
Hedinger/G	Aluminium acetotartrate solu…	20162B	1
Hedinger/Gehe/19.09.2019	Aluminium acetotartrate solu…	20165B	2
Hedinger/Gehe	Aluminium acetotartrate solu…	20152B	1
Hedinger/Gehe	Aluminium acetotartrate solu…	20153B	4
Hedinger/Gehe	Aluminium acetotartrate solu…	201548	1
hedinger/gehe	Aluminium acetotartrate solu…	20154B	1
hedinger/Gehe	Aluminium acetotartrate solu…	20155B	1
Hedinger/GEHE	Aluminium acetotartrate solu…	20155B	1
hedinger/Gehe	Aluminium acetotartrate solu…	20156B	1
Hedinger/Gehe	Aluminium acetotartrate solu…	20157B	1
Hedinger/Gehe	Aluminium acetotartrate solu…	20158B	3
hedinger/gehe	Aluminium acetotartrate solu…	20159B	1
Hedinger/Gehe	Aluminium acetotartrate solu…	20159B	3
Hedinger/Gehe	Aluminium acetotartrate solu…	20160B	1
Hedinger/Gehe	Aluminium acetotartrate solu…	20161B	7
hedinger/gehe	Aluminium acetotartrate solu…	20162B	1
Hedinger/Gehe	Aluminium acetotartrate solu…	20162B	1
Hedinger/Gehe	Aluminium acetotartrate solu…	201638	1
hedinger/gehe	Aluminium acetotartrate solu…	20163B	1
Hedinger/Gehe	Aluminium acetotartrate solu…	20163B	8
Hedinger/Gehe	Aluminium acetotartrate solu…	20164B	3
Hedinger/Gehe	Aluminium acetotartrate solu…	20165B	4
Hedinger/Gehe	Aluminium acetotartrate solu…	20166B	7
Hedinger/Gehe	Aluminium acetotartrate solu…	202165B	1
Hedinger/Gehe	Water	219181	1
Hedinger/Gehe	Water	219220	1
Hedinger/Holdermann	Aluminium acetotartrate solu…	20150B	1
Hedinger/Jenne 16.08.14	Aluminium acetotartrate solu…	20156B	1
Hedinger/Kehr	Water	219226	1
Hedinger/Krieger	Aluminium acetotartrate solu…	20161B	1
Hedinger/Krieger	Aluminium acetotartrate solu…	20162B	1
Hedinger/Krieger	Aluminium acetotartrate solu…	201658	1
Hedinger/Noweda	Aluminium acetotartrate solu…	200161B	1
Hedinger/Noweda	Aluminium acetotartrate solu…	20151B	2
Hedinger/Noweda	Aluminium acetotartrate solu…	20156B	3
Hedinger/Noweda	Aluminium acetotartrate solu…	20158B	2
HEDINGER/NOWEDA	Aluminium acetotartrate solu…	20159B	1
Hedinger/Noweda	Aluminium acetotartrate solu…	20160B	2
Hedinger/Noweda	Aluminium acetotartrate solu…	20161B	3
Hedinger/Noweda	Aluminium acetotartrate solu…	20162B	2
Hedinger/Noweda	Aluminium acetotartrate solu…	20163B	4
Hedinger/Noweda	Aluminium acetotartrate solu…	20165B	3
Hedinger/Noweda	Aluminium acetotartrate solu…	20166B	6
Hedinger/Noweda	Water	219177	1
Hedinger/Noweda	Water	219218	3
Hedinger/Otto	Aluminium acetotartrate solu…	201538	1
Hedinger/Ph	Aluminium acetotartrate solu…	20162B	2
Hedinger/Phoenix	Aluminium acetotartrate solu…	20020	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger/Phoenix	Aluminium acetotartrate solu…	20154B	1
Hedinger/Phoenix	Aluminium acetotartrate solu…	201578	1
Hedinger/Phoenix	Aluminium acetotartrate solu…	20158B	2
Hedinger/Phoenix	Aluminium acetotartrate solu…	20159B	1
Hedinger/Phoenix	Aluminium acetotartrate solu…	20160B	3
Hedinger/Phoenix	Aluminium acetotartrate solu…	20162B	2
Hedinger/Phoenix	Aluminium acetotartrate solu…	20163B	4
Hedinger/Phoenix	Aluminium acetotartrate solu…	20164B	1
Hedinger/Phoenix	Aluminium acetotartrate solu…	20165B	6
Hedinger/Phoenix	Aluminium acetotartrate solu…	20166B	5
Hedinger/Phönix	Aluminium acetotartrate solu…		1
Hedinger/Phönix	Aluminium acetotartrate solu…	(020)020	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20152B	2
Hedinger/Phönix	Aluminium acetotartrate solu…	20153B	2
hedinger/phönix	Aluminium acetotartrate solu…	20155B	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20155B	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20156B	1
hedinger/phönix	Aluminium acetotartrate solu…	20157B	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20157B	4
Hedinger/Phönix	Aluminium acetotartrate solu…	20158B	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20159B	4
Hedinger/Phönix	Aluminium acetotartrate solu…	2015B	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20160B	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20161B	3
Hedinger/Phönix	Aluminium acetotartrate solu…	201638	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20163B	6
Hedinger/Phönix	Aluminium acetotartrate solu…	20164B	6
Hedinger/Phönix	Aluminium acetotartrate solu…	201658	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20165B	5
Hedinger/Phönix	Aluminium acetotartrate solu…	201668	1
Hedinger/Phönix	Aluminium acetotartrate solu…	20166B	4
Hedinger/Px	Aluminium acetotartrate solu…	20159B	1
Hedinger/Sana	Aluminium acetotartrate solu…	20159B	1
Hedinger/Sana	Aluminium acetotartrate solu…	20164B	1
Hedinger/Sanacorp EK: 8…	Aluminium acetotartrate solu…	20166B	2
Hedinger/Sanacorp	Aluminium acetotartrate solu…	20153B	2
Hedinger/Sanacorp	Aluminium acetotartrate solu…	20154B	1
Hedinger/Sanacorp	Aluminium acetotartrate solu…	20158B	3
Hedinger/Sanacorp	Aluminium acetotartrate solu…	20159B	2
Hedinger/Sanacorp	Aluminium acetotartrate solu…	20162B	1
Hedinger/Sanacorp	Aluminium acetotartrate solu…	20163B	8
Hedinger/Sanacorp	Aluminium acetotartrate solu…	20164B	3
Hedinger/Sanacorp	Aluminium acetotartrate solu…	20165B	1
Hedinger/Sanacorp6.5.2014	Chlorhexidine digluconate so…	1234	1
Hedinger/Spangro 18.1.2…	Aluminium acetotartrate solu…	20166B	1
hedinger/Staren	Aluminium acetotartrate solu…	3518Q-01793	1
Hedinger/V.d.L.	Aluminium acetotartrate solu…	20154B	1
Hedinger/VDL	Aluminium acetotartrate solu…	20161B	1
Hedinger/VDL	Aluminium acetotartrate solu…	20166B	1
Hedinger	Aluminium acetotartrate solu…		1
Hedinger	Aluminium acetotartrate solu…	1002211793	1
Hedinger	Aluminium acetotartrate solu…	1111	1
Hedinger	Chlorhexidine digluconate so…	18045906	1
hedinger	Aluminium acetotartrate solu…	201165B	1
Hedinger	Aluminium acetotartrate solu…	20149B	1
Hedinger	Aluminium acetotartrate solu…	20150B	4
hedinger	Aluminium acetotartrate solu…	20151B	1
Hedinger	Aluminium acetotartrate solu…	20151B	8
hedinger	Aluminium acetotartrate solu…	201528	1
Hedinger	Aluminium acetotartrate solu…	20152B	8

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Hedinger	Aluminium acetotartrate solu…	201538	2
Hedinger	Aluminium acetotartrate solu…	20153B	9
Hedinger	Aluminium acetotartrate solu…	201548	1
Hedinger	Aluminium acetotartrate solu…	20154B	10
Hedinger	Aluminium acetotartrate solu…	20155B	9
Hedinger	Aluminium acetotartrate solu…	201568	1
hedinger	Aluminium acetotartrate solu…	20156B	4
Hedinger	Aluminium acetotartrate solu…	20156B	18
hedinger	Aluminium acetotartrate solu…	20157B	2
Hedinger	Aluminium acetotartrate solu…	20157B	9
hedinger	Aluminium acetotartrate solu…	20158B	3
Hedinger	Aluminium acetotartrate solu…	20158B	7
hedinger	Aluminium acetotartrate solu…	201598	1
HEDINGER	Aluminium acetotartrate solu…	201598	1
Hedinger	Aluminium acetotartrate solu…	20159B	9
Hedinger	Aluminium acetotartrate solu…	2015B	1
Hedinger	Aluminium acetotartrate solu…	201608	1
hedinger	Aluminium acetotartrate solu…	20160B	1
Hedinger	Aluminium acetotartrate solu…	20160B	15
Hedinger	Aluminium acetotartrate solu…	20161	1
hedinger	Aluminium acetotartrate solu…	20161B	1
Hedinger	Aluminium acetotartrate solu…	20161B	28
Hedinger	Aluminium acetotartrate solu…	20162B	11
Hedinger	Aluminium acetotartrate solu…	201638	3
hedinger	Aluminium acetotartrate solu…	20163B	1
Hedinger	Aluminium acetotartrate solu…	20163b	1
Hedinger	Aluminium acetotartrate solu…	20163B	23
HEDINGER	Aluminium acetotartrate solu…	20163B	1
hedinger	Aluminium acetotartrate solu…	20164B	1
Hedinger	Aluminium acetotartrate solu…	20164B	12
Hedinger	Aluminium acetotartrate solu…	20164B0	1
Hedinger	Aluminium acetotartrate solu…	20165b	1
Hedinger	Aluminium acetotartrate solu…	20165B	26
HEDINGER	Aluminium acetotartrate solu…	20165B	1
Hedinger	Aluminium acetotartrate solu…	20166B	14
HEDINGER	Aluminium acetotartrate solu…	20166B	5
Hedinger	Aluminium acetotartrate solu…	2016b	1
Hedinger	Aluminium acetotartrate solu…	2016B	3
Hedinger	Aluminium acetotartrate solu…	2021302	1
Hedinger	Aluminium acetotartrate solu…	2153B	1
Hedinger	Aluminium acetotartrate solu…	2161B	1
Hedinger	Water	219116	1
Hedinger	Water	219132	1
Hedinger	Water	219133	1
hedinger	Water	219135	1
Hedinger	Water	219140	1
Hedinger	Water	219143	2
Hedinger	Water	219147	1
Hedinger	Water	219147(2x)	1
Hedinger	Water	219156	8
Hedinger	Water	219162	4
Hedinger	Water	219164	1
Hedinger	Water	219167	2
Hedinger	Water	219169	1
HEDINGER	Water	219172	4
Hedinger	Water	219173	1
HEDINGER	Water	219179	6
Hedinger	Water	219181	1
HEDINGER	Water	219183	2
Hedinger	Water	219184	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
HEDINGER	Water	219185	5
HEDINGER	Water	219192	3
HEDINGER	Water	219198	8
HEDINGER	Water	219201	2
HEDINGER	Water	219202	3
HEDINGER	Water	219206	4
Hedinger	Water	219208	7
Hedinger	Water	219209	1
HEDINGER	Water	219218	11
Hedinger	Water	219229	6
Hedinger	Water	219231	2
Hedinger	Aluminium acetotartrate solu...	26041301	1
Hedinger	Aluminium acetotartrate solu...	402211793	1
Hedinger	Aluminium acetotartrate solu...	5081403	1
Hedinger-Phoenix	Aluminium acetotartrate solu...	201608	1
Hednger/Gehe	Aluminium acetotartrate solu...	20162B	1
heidinger/gehe	Aluminium acetotartrate solu...	201618	1
heidinger/noweda	Aluminium acetotartrate solu...	20156B	1
heidinger/phönix	Aluminium acetotartrate solu...	20159B	2
Heidinger/Phönix	Aluminium acetotartrate solu...	20163B	1
Heidinger	Aluminium acetotartrate solu...	20164B	1
Hendinger/ Sanacorp	Aluminium acetotartrate solu...	20161B	2
Henry Lamotte GmbH/ San...	Aluminium acetotartrate solu...	16004505	1
Henry Lamotte Oils GmbH...	Water	17K27-T09-050544	1
Henry Lamotte	Water	15L14-T12-028660	1
HenryLamotte	Aluminium acetotartrate solu...	20163B	2
hochhaus-Apotheke	Chlorhexidine digluconate so...	16002510	1
Ichthyol/Phönix	Chlorhexidine digluconate so...	16002506	2
Ichtyol-Gesellschaft	Chlorhexidine digluconate so...	181102601	2
Industries AG / Phoenix	Chlorhexidine digluconate so...	1308002-02	1
Infectopharm/No	Chlorhexidine digluconate so...		1
Jenne 05.11.21 EK:11,47EUR	Water	211105AP	1
Jenne	Water		1
JENNE	Chlorhexidine digluconate so...	1712002-01	1
Jenne	Chlorhexidine digluconate so...	17230801	1
Jenne	Water	17E05-T11-044076	1
Jenne	Water	17H24-T09-047709	2
JENNE	Water	17K27-T15-050585	1
Jenne	Chlorhexidine digluconate so...	18215610	1
Jenne	Water	18G16-T03-058126	1
Jenne	Water	19C29-T02-065500	2
Jenne	Water	19J14-T08-0726903	2
Jenne	Water	19J4-T08-0726903	1
Jenne	Chlorhexidine digluconate so...	2007044-01	1
Jenne	Aluminium acetotartrate solu...	20161B	1
Jenne	Aluminium acetotartrate solu...	20162B	1
Jenne	Aluminium acetotartrate solu...	20165B	2
Jenne	Water	20C17-T03-0775201	1
Jenne	Water	20C17-T17-0776007	1
Jenne	Water	T03-0775201	1
Jenne	Water	T08-0805600	1
Jenne	Water	T15-0785607	1
Jenne	Water	T17-0776007	2
Jenne	Water	T17-0785703	1
Kehr.10.02.2020	Water	19D01-T12-065568	2
Kehr/gepepharm	Aluminium acetotartrate solu...	20160B	1
Kehr	Chlorhexidine digluconate so...	1610022-01	1
Kehr	Water	17114501	1
Kehr	Water	17114801	1
Kehr	Water	20000853001	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Kehr	Water	20001293001	1
Kerndl	Water	32517	1
Kerndl	Water	8412	1
Klenk	Chlorhexidine digluconate so...	13D16-N04	1
Klenk	Chlorhexidine digluconate so...	1511033-01	1
Klenk	Water	15D14-T-021499	1
Klenk	Water	17173001	2
Klenk	Water	17F23-T06-045760	2
Klenk	Chlorhexidine digluconate so...	444A160817	1
Klosterring	Chlorhexidine digluconate so...	17210110	1
Klosterring	Chlorhexidine digluconate so...	18215601	1
Kögl	Chlorhexidine digluconate so...	1802507	1
Krieger	Chlorhexidine digluconate so...	17210105	1
Krieger	Chlorhexidine digluconate so...	18045903	1
Krieger	Chlorhexidine digluconate so...	21001487002	1
L 20/Hedinger	Aluminium acetotartrate solu...	201618	1
L10/Apoth.E.Bartel	Aluminium acetotartrate solu...	20161B	1
L10	Chlorhexidine digluconate so...	1511033-02	1
L10	Chlorhexidine digluconate so...	1708006-01	2
L12	Water	16L12-T16-039628	1
L12	Chlorhexidine digluconate so...	1712002-02	1
L12	Water	17E05-T11-044076	1
L12	Water	17K27-T13-050577	1
L12	Chlorhexidine digluconate so...	1811026-01	2
L12	Water	18C13-T14-053737	1
L12	Aluminium acetotartrate solu...	20163B	2
L30	Chlorhexidine digluconate so...	1511033-01	1
Laborchemie Apolda	Chlorhexidine digluconate so...	1511033-01	2
Lamotte / Gehe	Chlorhexidine digluconate so...	14011017	1
Lamotte/Alliance	Water	17211201	1
Lamotte	Water	219219	1
Land PVT.LTD/AHD	Chlorhexidine digluconate so...	19080807	1
Leyh Pharma	Aluminium acetotartrate solu...	18078606	1
Marktapotheke	Aluminium acetotartrate solu...	20161B	2
Max Jenne Hedinger	Aluminium acetotartrate solu...	20166B	3
Midas	Water	16C22_T07-031410	1
Midas	Water	17E05-T07-044067	1
Midas	Water	17K01-T01-048440	1
Midas	Water	17K27-T11-050552	2
Midas	Water	17L20-T02-051255	1
Midas	Water	18062101	2
Midas	Water	18226801	1
Midas	Water	18263401	2
Midas	Water	18265001	2
Midas	Water	18C19-T31-054017	2
Midas	Water	18E09-T01-055708	1
Midas	Water	18E28-T01-056487	1
Midas	Water	18G16-T04-058129	1
Mikrochem/Phönix	Aluminium acetotartrate solu...	190037	1
Nachprüfung 19.9.17.	Chlorhexidine digluconate so...	1610022-01	2
Nachprüfung	Water	AP200710-10	1
now	Chlorhexidine digluconate so...		1
Noweda / Euro	Chlorhexidine digluconate so...	1908014-01	2
Noweda / Hedinger	Water	219233	1
Noweda 02.08.2019	Water	18228701	1
Noweda 17.07.2019	Water	19A18-T07-063531	2
Noweda Taucha/Caesar&Lo...	Water	20001416001	1
Noweda Taucha	Water	22000390001	1
Noweda Taucha	Water	22000680001	1
Noweda/apoident	Chlorhexidine digluconate so...	1912015-01	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda/Fragron	Water	19C29-T07-065526	1
Noweda/Fragron	Water	19H16-T14-070934	1
Noweda/Hedinger	Aluminium acetotartrate solu...	20153B	1
Noweda/Hedinger	Aluminium acetotartrate solu...	20156B	1
Noweda/hedinger	Aluminium acetotartrate solu...	20165B	1
Noweda/HEDINGER	Water	219200	1
Noweda/Hedinger	Water	219224	1
Noweda/Hedinger	Water	T06-0726805	1
Noweda/Wepa	Water	LOTAP0053	1
Noweda/Wepa	Water	LOTAP-SP0016	1
Noweda	Chlorhexidine digluconate so...	11353004	1
Noweda	Chlorhexidine digluconate so...	1202010-01	3
Noweda	Chlorhexidine digluconate so...	12114012	1
Noweda	Chlorhexidine digluconate so...	1308002-01	2
Noweda	Aluminium acetotartrate solu...	13261304	1
Noweda	Chlorhexidine digluconate so...	1508022-01	1
Noweda	Chlorhexidine digluconate so...	15131510	1
Noweda	Chlorhexidine digluconate so...	15292508	1
Noweda	Water	15F04-T03-023259	1
Noweda	Water	15K10-T05-027617	1
Noweda	Chlorhexidine digluconate so...	16308811	1
Noweda	Aluminium acetotartrate solu...	16342005	1
Noweda	Aluminium acetotartrate solu...	16342006	1
Noweda	Chlorhexidine digluconate so...	1708006-02	1
Noweda	Water	17145001	1
Noweda	Chlorhexidine digluconate so...	17210105	1
Noweda	Chlorhexidine digluconate so...	17210112	3
Noweda	Water	17K27-T15-050585	2
Noweda	Chlorhexidine digluconate so...	18/07-B04-354794	1
Noweda	Chlorhexidine digluconate so...	18045903	1
Noweda	Aluminium acetotartrate solu...	18078602	2
Noweda	Aluminium acetotartrate solu...	18078606	2
Noweda	Chlorhexidine digluconate so...	1811026	1
Noweda	Chlorhexidine digluconate so...	1811026-01	1
Noweda	Water	18238601	1
Noweda	Water	18265001	1
Noweda	Chlorhexidine digluconate so...	18A09-B05-344605	1
Noweda	Chlorhexidine digluconate so...	18C05-B04-349430	1
Noweda	Chlorhexidine digluconate so...	18C05-B04-351140	1
Noweda	Chlorhexidine digluconate so...	18C05-B04-352123	1
Noweda	Water	18C19-T27-053999	1
Noweda	Water	18G16-T04-058129	2
Noweda	Chlorhexidine digluconate so...	18I07-B04-354794	1
Noweda	Aluminium acetotartrate solu...	190037	2
Noweda	Water	19005501	2
Noweda	Water	19077701	1
Noweda	Chlorhexidine digluconate so...	1908014-01	2
Noweda	Chlorhexidine digluconate so...	19080808	2
Noweda	Chlorhexidine digluconate so...	1912015-01	1
Noweda	Water	19162701	1
Noweda	Water	19199101	2
Noweda	Water	19263601	1
Noweda	Chlorhexidine digluconate so...	192972008	1
Noweda	Water	19A18-T07-063531	1
Noweda	Water	19C29-T02-065500	1
Noweda	Water	19C29-T05-065509	1
Noweda	Water	19C29-T06-065512	1
Noweda	Water	19C29-T08-065529	2
Noweda	Water	19f27t12-068G06	1
Noweda	Water	19H16-T17-070943	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Noweda	Water	19J10-T09-0726008	1
Noweda	Water	19J14-T03-072675	1
Noweda	Water	19J14-T07-072690	1
Noweda	Water	20000526002	1
Noweda	Chlorhexidine digluconate so...	20000960009	1
Noweda	Water	20001119001	2
Noweda	Water	20002910001	1
Noweda	Chlorhexidine digluconate so...	2007044-01	1
Noweda	Aluminium acetotartrate solu...	20150B	1
Noweda	Water	20E03-T05-0799304	1
Noweda	Water	20E13-T02-080170	1
Noweda	Chlorhexidine digluconate so...	20K24-T04-077175	1
Noweda	Water	21000522001	2
Noweda	Water	219222	5
Noweda	Water	LOTAP0126	1
Noweda	Water	LOTAP0131	1
Noweda	Water	LOTAP0136	1
Noweda	Water	T18-0776100	1
Noweda18.12.2014	Chlorhexidine digluconate so...	14331303	1
Otto Geilenkirchen	Chlorhexidine digluconate so...	21001487001	1
P.W. Beyvers / Noweda	Chlorhexidine digluconate so...	17210106	1
Pala	Chlorhexidine digluconate so...	1511033-01	1
Pala	Chlorhexidine digluconate so...	18A09-B05-344604	1
Pala	Water	19005602	1
Pala	Water	19077501	1
Ph/Hedinger	Aluminium acetotartrate solu...	201648	2
Ph/Hedinger	Aluminium acetotartrate solu...	20165B	1
PHOENIX 25.07.2014	Chlorhexidine digluconate so...	13k26-b06-288849	1
Phoenix WE 11.03.17 EK...	Aluminium acetotartrate solu...	20161B	1
Phoenix WE: 01.09.17 E...	Chlorhexidine digluconate so...	1701037-02	3
Phoenix WE28.04.17 -7,9...	Water	16H02-T01-035743	1
Phoenix/Cealo	Aluminium acetotartrate solu...	20155B	1
Phoenix/Euro25.06.19	Chlorhexidine digluconate so...	1811026-01	1
Phoenix	Chlorhexidine digluconate so...	13H19-B01-285452	1
Phoenix	Chlorhexidine digluconate so...	14331307	1
Phoenix	Chlorhexidine digluconate so...	1511033-01	1
Phoenix	Water	15L14-T14	1
Phoenix	Water	15L15-T07	1
Phoenix	Chlorhexidine digluconate so...	1712002-02	1
Phoenix	Water	18042901	1
Phoenix	Chlorhexidine digluconate so...	1811026-01	1
Phoenix	Chlorhexidine digluconate so...	18l07-b04	1
Phoenix	Chlorhexidine digluconate so...	19109-t07-071037	1
Phoenix	Water	19G04-T02-069129	2
Phoenix	Chlorhexidine digluconate so...	20000960009	1
Phoenix	Water	20002911001	1
Phoenix	Water	2002570	1
Phoenix	Chlorhexidine digluconate so...	2007044-01	2
Phoenix	Chlorhexidine digluconate so...	201011210	1
Phoenix	Chlorhexidine digluconate so...	21001487002	1
Phoenix	Chlorhexidine digluconate so...	3053	1
Phoenix	Chlorhexidine digluconate so...	3091	1
Phoenix	Water	AP-SP0007	1
Phoenix	Water	AP-SP0009	1
Phoenix	Water	AP-SP0010	1
Phoenix	Water	AP-SP0012	1
Phoenix	Water	AP-SP0018	1
Phoenix	Water	LOTAP0095	1
Phoenix	Water	LOTAP0125	1
Phoenix	Water	LOTAP0132	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Water	LOTAP0139	1
Phoenix	Water	LOTAP0156	1
Phoenix	Water	LOTAPsp0005	1
Phoenix	Water	LOTAPSP0006	1
Phoenix	Water	LOTAPSP0007	2
Phoenix	Water	LOTAP-SP0007	1
Phoenix	Water	LOTAPSP0010	1
Phoenix	Water	LOTAPsp0011	1
Phoenix	Water	LOTAPsp0012	1
Phoenix	Water	LOTAPSP0013	1
Phoenix	Water	LOTAPsp0016	1
Phoenix	Water	LOTAP-SP0018	1
Phoenix	Water	LOTAPSP0019	1
Phoenix	Water	-SP001008	2
Phönix WE:08.12.17 E...	Water	17C31-T05-043064	2
Phönix 28.01.2014	Chlorhexidine digluconate so...	1206023-02	1
Phönix Gotha	Chlorhexidine digluconate so...	12A02-N11	1
Phönix Gotha	Chlorhexidine digluconate so...	12H14-N06	1
Phönix Gotha	Aluminium acetotartrate solu...	13261304	1
Phönix Gotha	Chlorhexidine digluconate so...	13A29-N06	1
Phönix Gotha	Chlorhexidine digluconate so...	13K26-B06-288853	1
Phönix Gotha	Chlorhexidine digluconate so...	1412018-01	1
Phönix Gotha	Chlorhexidine digluconate so...	14120189-01	1
Phönix Gotha	Water	14K05-T02-016775	2
Phönix Gotha	Water	15019101	3
Phönix Gotha	Water	15142501	1
Phönix Gotha	Water	15235201	2
Phönix Gotha	Water	15253901	1
Phönix Gotha	Water	18L19-T06-062854	1
Phönix Gotha	Water	19133401	2
Phönix Gotha	Water	19198401	1
Phönix Gotha	Water	19H16-T14-070934	3
Phönix Gotha	Aluminium acetotartrate solu...	900108	2
Phönix, Caesar&Loretz G...	Water	19152701	1
Phönix, Fagro, 04.04.20...	Water	19H-12T15-070784	1
phönix/ WEPA	Water	LOTAP-SP0006	1
Phönix/	Water	T04-0832405	1
Phönix/Caesar & Loretz ...	Water	20002910001	1
Phönix/EuRho	Chlorhexidine digluconate so...	1206023-01	2
Phönix/Hedinger	Aluminium acetotartrate solu...	20155B	3
Phönix/Hedinger	Aluminium acetotartrate solu...	201638	1
Phönix/Hedinger	Aluminium acetotartrate solu...	20166B	1
Phönix/Wepa 3.3.2020	Water	LOTAP-SP0007	1
Phönix/Wepa	Water	LOTAP0073	1
Phönix	Chlorhexidine digluconate so...	11353004	1
Phönix	Chlorhexidine digluconate so...	1206023-01	1
Phönix	Chlorhexidine digluconate so...	1206023-02	2
Phönix	Aluminium acetotartrate solu...	12116805	1
Phönix	Aluminium acetotartrate solu...	12318703	1
Phönix	Aluminium acetotartrate solu...	12318705	1
Phönix	Chlorhexidine digluconate so...	12H14-N06	1
Phönix	Aluminium acetotartrate solu...	13101101	1
Phönix	Chlorhexidine digluconate so...	13K26-B06-28965	1
phönix	Chlorhexidine digluconate so...	1511033-01	2
Phönix	Aluminium acetotartrate solu...	15299909	1
Phönix	Aluminium acetotartrate solu...	16004505	1
Phönix	Chlorhexidine digluconate so...	1610021-01	1
Phönix	Chlorhexidine digluconate so...	1610022-01	2
Phönix	Water	16127901	1
Phönix	Chlorhexidine digluconate so...	16308812	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix	Aluminium acetotartrate solu…	16342001	1
Phönix	Chlorhexidine digluconate so…	17001037-02	1
PHÖNIX	Chlorhexidine digluconate so…	1708006-01	1
Phönix	Chlorhexidine digluconate so…	1708006-02	1
Phönix	Chlorhexidine digluconate so…	1712002-01	2
phönix	Chlorhexidine digluconate so…	17230801	1
Phönix	Water	17233001	2
PHÖNIX	Water	17E05-T07	2
PHÖNIX	Water	17E05-T07-044067	2
Phönix	Water	17E05-T13-044080	2
PHÖNIX	Water	17H24-T13	1
Phönix	Water	17K27-T16-050588	1
PHÖNIX	Aluminium acetotartrate solu…	180043	1
Phönix	Water	18019501	4
Phönix	Aluminium acetotartrate solu…	18078602	2
phönix	Aluminium acetotartrate solu…	18078611	1
Phönix	Water	18109101	6
Phönix	Water	18109501	1
Phönix	Chlorhexidine digluconate so…	1811026-01	4
Phönix	Chlorhexidine digluconate so…	18215601	1
Phönix	Aluminium acetotartrate solu…	18288401	1
Phönix	Water	18C19-T25-053991	1
phönix	Water	18E09T01055708	1
Phönix	Water	18E09-T01-055708	1
phönix	Water	18G16T03058126	1
Phönix	Water	18J10-T01-060845	2
PHÖNIX	Aluminium acetotartrate solu…	190037	1
Phönix	Water	19A18-T11-06354	1
Phönix	Water	19C29-T06-065512	1
Phönix	Water	19D01-T10-065562	1
Phönix	Water	19F27-T14-068914	1
Phönix	Chlorhexidine digluconate so…	20000960009	1
Phönix	Chlorhexidine digluconate so…	2007044-01	2
Phönix	Aluminium acetotartrate solu…	20153b	1
Phönix	Water	20B28-T03-076719	3
Phönix	Water	20C17-T17-077607	1
Phönix	Water	219222	3
Phönix	Chlorhexidine digluconate so…	A-180630	1
Phönix	Water	LOTAP-SP0005	1
Phönix	Water	T03-0767109	1
Phönix_13.12.2018	Water	18C19-T31-054017	1
PX/Hedinger	Aluminium acetotartrate solu…	20158B	1
R.N./Noweda	Chlorhexidine digluconate so…	RN/CHGCOS/20/18/024	1
R.N./Noweda	Chlorhexidine digluconate so…	RN1/CHCCOS/20/18/024	1
R.N./Noweda	Chlorhexidine digluconate so…	RN1/CHGCOS/20/20/065	1
R.N./Phoenix	Chlorhexidine digluconate so…	RN1/CHGCOS/20/19/026	1
R.N/Phoenix	Chlorhexidine digluconate so…	RN1/CHGCEP/20/20/147	1
Raben-Apotheke Mildenau	Aluminium acetotartrate solu…	20156B	2
Rabenapotheke	Water	14L03-T11-017800	1
RN Laboratories/Noweda	Chlorhexidine digluconate so…	RN1/CHGCOS/20/19/061	1
Rondell Apotheke	Water	LOTAP0016	1
Sanacop/Pharma	Water	17B13T02041604	1
Sanacorp EK:5,70 EUR…	Chlorhexidine digluconate so…	1701037	1
Sanacorp /Fargron	Water	17E05-T01-044045	1
Sanacorp /Fargron	Water	19J14-T09-072696	1
Sanacorp /Wepa	Water	LOTAp0042	1
Sanacorp 17.07.2015	Chlorhexidine digluconate so…	15131504	1
Sanacorp/ Hedinger	Aluminium acetotartrate solu…	20162B	1
Sanacorp/ Hedinger	Aluminium acetotartrate solu…	20163B	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
sanacorp/Hedinger	Aluminium acetotartrate solu…	20157B	1
Sanacorp/Hedinger	Aluminium acetotartrate solu…	20157B	2
Sanacorp/HEDINGER	Aluminium acetotartrate solu…	20161B	1
Sanacorp/Hedinger	Aluminium acetotartrate solu…	20166B	1
Sanacorp/Wepa	Water	LOTAP0083	1
Sanacorp/WEPA	Water	LOTAP-SP0005	1
Sanacorp	Chlorhexidine digluconate so…	1206023-01	4
Sanacorp	Chlorhexidine digluconate so…	12114001	1
Sanacorp	Chlorhexidine digluconate so…	12K22-N09	1
Sanacorp	Chlorhexidine digluconate so…	13136103	1
Sanacorp	Chlorhexidine digluconate so…	13136115	2
Sanacorp	Chlorhexidine digluconate so…	14011004	1
sanacorp	Chlorhexidine digluconate so…	14011015	1
sanacorp	Chlorhexidine digluconate so…	14331312	1
Sanacorp	Chlorhexidine digluconate so…	14331312	1
Sanacorp	Chlorhexidine digluconate so…	15109201	1
Sanacorp	Chlorhexidine digluconate so…	15131509	1
Sanacorp	Chlorhexidine digluconate so…	15292508	3
Sanacorp	Chlorhexidine digluconate so…	16002501	2
Sanacorp	Chlorhexidine digluconate so…	1701037-02	2
Sanacorp	Water	17114701	1
Sanacorp	Chlorhexidine digluconate so…	17230801	2
Sanacorp	Water	17339801	1
Sanacorp	Water	17K27-T14-050581	2
Sanacorp	Water	17K27-T15-050585	1
Sanacorp	Chlorhexidine digluconate so…	18045906	2
Sanacorp	Water	18062001	2
Sanacorp	Water	18109301	1
Sanacorp	Chlorhexidine digluconate so…	1811026-01	1
Sanacorp	Water	18138601	1
Sanacorp	Water	18178302	3
Sanacorp	Water	18210601	1
Sanacorp	Chlorhexidine digluconate so…	18215601	2
Sanacorp	Chlorhexidine digluconate so…	18215610	2
Sanacorp	Water	18227001	1
Sanacorp	Chlorhexidine digluconate so…	18A09-B05-344605	1
Sanacorp	Water	18C19-T27-o53999	1
Sanacorp	Water	18C19-T28-054003	1
Sanacorp	Water	18C19-T30-054012	1
Sanacorp	Water	18E09-T02055711	1
Sanacorp	Water	18E09-T02-055711	1
Sanacorp	Water	19077801	1
Sanacorp	Chlorhexidine digluconate so…	19080807	1
Sanacorp	Chlorhexidine digluconate so…	19080808	5
Sanacorp	Chlorhexidine digluconate so…	192972002	1
Sanacorp	Chlorhexidine digluconate so…	192972003	1
Sanacorp	Chlorhexidine digluconate so…	192972006	2
Sanacorp	Water	19A18-T11-063541	2
Sanacorp	Water	19C29-T01-065497	1
Sanacorp	Water	19F27-T11-068903	1
Sanacorp	Water	19J14-T06-07268005	1
Sanacorp	Water	19J14-T06-0726805	2
Sanacorp	Water	20002379002	2
Sanacorp	Aluminium acetotartrate solu…	20150B	2
Sanacorp	Aluminium acetotartrate solu…	20152B	1
Sanacorp	Aluminium acetotartrate solu…	20155B	1
Sanacorp	Aluminium acetotartrate solu…	21002881005	1
Sanacorp	Water	AP-SP0014	1
Sanacorp	Water	LOTAP0090	1
Sanacorp	Water	LOTAP0153	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Sanacorp	Water	LOTAP0180	1
Sanacorp	Water	LOTAP-SP0010	1
Sanacorp	Water	LOTAPSP0017	1
Sanacorp	Water	T06-0726805	3
Sanacorp	Water	T17-0709403	2
Schütz Dishman Biotech ...	Chlorhexidine digluconate so...	15E13-B07	1
Schütz Dishman Biotech ...	Chlorhexidine digluconate so...	15I03-B02	1
Serumwerk Bernburg AG	Water		2
Serumwerk Bernburg/Sana...	Water		1
serumwerk bernburg	Water		6
Sonnen-Apotheke Wefensl...	Chlorhexidine digluconate so...	16002501	1
Sophien AM/Wepa	Water	LOTAP0077	1
Sophien AM/Wepa	Water	LOTAP0082	1
Sophien AM/Wepa	Water	LOTAP0093	1
Spangr/Hedinger	Aluminium acetotartrate solu...	201538	1
Spangro/Hedinger	Aluminium acetotartrate solu...	20158B	1
Spangropharm	Aluminium acetotartrate solu...	20156B	1
Spangropharm	Aluminium acetotartrate solu...	20161B	1
Stumpf	Aluminium acetotartrate solu...	20151B	1
Symbiotica	Chlorhexidine digluconate so...	1412018-02	1
Test	Water	Test	1
TTP / Gehe	Water	17332406	1
VDL	Chlorhexidine digluconate so...	130800201	1
VDL; 13.7.15; 3,83EUR	Chlorhexidine digluconate so...	1412018-01	1
VWR	Water	19L124108	1
VWR	Water	19L24108	1
Walter Schmidt Chemie G...	Water	1338	1
Wasser, gereinigt	Water	15D14T09021490	1
WE:21.03.2016 Sanacor...	Aluminium acetotartrate solu...	20160B	1
WE:Sanacorp 12.09.2016 ...	Water	16C23-T08-031427	1
WEPA / Alliance Healthc...	Water	LOTAP0092	1
Wepa / Anzag	Water	LOTAP_SP0022	1
Wepa / Gehe	Water	LOTAP0095	1
Wepa / Gehe	Water	LotAP0100	1
Wepa / Gehe	Water	LOTAP0113	1
Wepa / Gehe	Water	LOTAP0118	1
Wepa / Gehe	Water	LOTAP0142	1
Wepa / Gehe	Water	LOTAP0149	1
Wepa / Gehe	Water	LOTAP144	1
Wepa / Gehe	Water	LOTAP-SP0008	1
WEPA / Gehe	Water	LOTAP-SP0010	1
WEPA / Gehe	Water	LOTAP-SP001000	1
WEPA / Gehe	Water	LOTAP-SP0014	2
WEPA / Gehe	Water	LOTAP-SP0017	1
Wepa / Gehe	Water	LOTAP-Sp008	1
WEPA / Gehe	Water	-SP0012	1
Wepa / Noweda	Water	AP-SP0014	1
Wepa / Phoenix	Water	LOTAP0100	1
Wepa / Phönix	Water	AP0128	2
Wepa / Phönix	Water	AP-SP0015	1
Wepa / Phönix	Water	LOTAP0146	1
Wepa / Sanacorp	Water	LOTAP-SP0005	1
Wepa / Sanacorp	Water	LOTAP-SP0006	1
Wepa / Sanacorp	Water	LOTAP-SP0009	1
Wepa / Sanacorp	Water	LOTAP-SP0011	1
Wepa / Sanacorp	Water	LOTAP-SP0013	2
Wepa / Sanacorp	Water	LOTAP-SP0016	1
Wepa / Sanacorp	Water	LOTAP-SP0017	1
Wepa / Sanacorp	Water	LOTAP-SP0018	1
Wepa / Wepa / 18.02.201...	Water	AP0097	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Wepa / Wepa	Water		2
Wepa / Wepa	Water	30(LOTAP0136)	1
Wepa / Wepa	Water	AP0142	1
Wepa / Wepa	Water	LOTAP0045	1
Wepa / Wepa	Water	LOTAP0048	2
Wepa / Wepa	Water	LOTAP0065	2
Wepa / Wepa	Water	LOTAP0072	1
Wepa / Wepa	Water	LOTAP0075	3
Wepa / Wepa	Water	LOTAP0107	1
Wepa / Wepa	Water	LOTAP0142	4
Wepa / Wepa	Water	LOTAP0147	10
Wepa / Wepa	Water	LOTAP0155	3
Wepa /AllianceH.	Water		1
wepa /gehe	Water	12200	1
wepa /gehe	Water	LOTAP0131	1
wepa /gehe	Water	LOTAP0144	1
Wepa /Phönix	Water	LOTAP-SP0005	1
Wepa /Phönix	Water	LOTAP-SP0006	1
wepa /phönix	Water	LOTAP-SP0009	2
WEPA Apothekenbedarf Gm...	Water	LOTAP0154	1
WEPA Apothekenbedarf Gm...	Water	AP0153	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0061	2
WEPA Apothekenbedarf Gm...	Water	LOTAP0074	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0082	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0089	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0095	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0100	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0124	2
WEPA Apothekenbedarf Gm...	Water	LOTAP0131	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0144	2
WEPA Apothekenbedarf Gm...	Water	LOTAP0148	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0153	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0087	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0135	1
WEPA Apothekenbedarf Gm...	Water	LOTAP0090	1
WEPA Apothekenbedarf Gm...	Water	LOTAP-SP0003	2
WEPA Apothekenbedarf Gm...	Water	LOTAP-SP0005	2
WEPA Apothekenbedarf Gm...	Water	LOTAP-SP0020	1
Wepa Apothekenbedarf Gm...	Water	AP0100	1
Wepa Apothekenbedarf Gm...	Water	AP0127	1
Wepa Apothekenbedarf Gm...	Water	AP0131	1
Wepa Apothekenbedarf Gm...	Water	AP0133	1
Wepa Apothekenbedarf Gm...	Water	AP0137	1
Wepa Apothekenbedarf Gm...	Water	LotAP0094	1
Wepa Apothekenbedarf Gm...	Water	LOTAP0094	1
Wepa Apothekenbedarf Gm...	Water	LOTAP0106	2
Wepa Apothekenbedarf Gm...	Water	LOTAP0115	1
Wepa Apothekenbedarf Gm...	Water	LOTAP0117	1
Wepa Apothekenbedarf Gm...	Water	LOTAP0125	2
Wepa Apothekenbedarf Gm...	Water	LOTAP0138	1
Wepa Apothekenbedarf Gm...	Water	LOTAP0147	1
WEPA Apothekenbedarf Gm...	Water	LOTAP-SP0005	2
WEPA Apothekenbedarf Gm...	Water	LOTAP-SP0006	2
WEPA Apothekenbedarf Gm...	Water	LOTAP-SP0007	1
WEPA Apothekenbedarf GmbH	Water	LOTAP0112	1
WEPA Apothekenbedarf Hi...	Water	LOTAP0128	1
WEPA Apothekenbedarf Hi...	Water	LOTAP0135	1
WEPA Apothekenbedarf Hi...	Water	LOTAP-SP0008	1
WEPA Apothekenbedarf Hi...	Water	LOTAP0118	1
WEPA Apothekenbedarf/ G...	Water	LOTAP0131	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
WEPA Apothekenbedarf/ G...	Water	LOTAP0140	1
WEPA Apothekenbedarf/ G...	Water	LOTAP-SP0012	1
WEPA Apothekenbedarf/ G...	Water	LOTAP-SP0013	1
WEPA Apothekenbedarf/ G...	Water	LOTAP-SP0017	1
Wepa Apothekenbedarf/Gehe	Water	LOTAP-SP0017	1
Wepa Apothekenbedarf	Water		2
Wepa Apothekenbedarf	Water	AP0064	1
WEPA Apothekenbedarf	Water	AP0083	1
Wepa Apothekenbedarf	Water	AP0126	1
Wepa Apothekenbedarf	Water	AP0129	1
Wepa Apothekenbedarf	Water	AP0148	1
WEPA Apothekenbedarf	Water	LOTAP0031	1
Wepa Apothekenbedarf	Water	LOTAP0037	3
Wepa Apothekenbedarf	Water	LOTAP0042	2
WEPA Apothekenbedarf	Water	LOTAP0042	2
WEPA Apothekenbedarf	Water	LOTAP0053	1
WEPA Apothekenbedarf	Water	LOTAP0065	1
WEPA Apothekenbedarf	Water	LOTAP0074	1
Wepa Apothekenbedarf	Water	LOTAP0078	1
WEPA Apothekenbedarf	Water	LOTAP0083	2
WEPA Apothekenbedarf	Water	LOTAP0086	1
Wepa Apothekenbedarf	Water	LOTAP0092	1
WEPA Apothekenbedarf	Water	LOTAP0100	3
Wepa Apothekenbedarf	Water	LOTAP0103	1
WEPA Apothekenbedarf	Water	LOTAP0109	2
Wepa Apothekenbedarf	Water	lotap0132	1
Wepa Apothekenbedarf	Water	LOTAP0139	1
Wepa Apothekenbedarf	Water	LOTAP0143	2
Wepa Apothekenbedarf	Water	LOTAP0148	3
WEPA Apothekenbedarf	Water	LOTAP-SP0006	2
Wepa Apothekenbedarf	Water	LOTAP-SP0013	1
Wepa Apothekenbedarf	Water	LOTAP-SP0015	2
Wepa Apothekenbedarf	Water	LOTAP-SP0017	1
WEPA Apothekenbedqrf	Water	LOTAP0028	1
Wepa direkt	Water	AP0086	1
Wepa direkt	Water	AP0091	1
Wepa direkt	Water	LOTAP0094	1
Wepa direkt	Water	LOTAP0108	1
Wepa direkt	Water	LOTAP0116	1
Wepa direkt	Water	LOTAP0118	1
Wepa direkt	Water	LOTAP0125	2
WEPA GmbH & Co KG	Water	LOTAP-SP0014	2
WEPA GmbH & Co KG	Water	LOTAP-SP0015	1
WEPA GmbH & Co KG	Water	LOTAP-SP0017	1
Wepa Noweda	Water	LOTAP-SP0008	1
Wepa Noweda	Water	LOTAPSP0010	1
Wepa über Sanacorp	Water	LOTAP0141	1
Wepa,	Water	LOTAP0089	1
Wepa,Phoenix	Water	AP-SP-0016	2
Wepa,Phoenix	Water	LOT-SP0015	1
Wepa/ Noweda	Water	LOTAP0115	1
Wepa/ Noweda	Water	LOTAP0126	1
Wepa/ Noweda	Water	LOTAP0129	1
Wepa/ Noweda	Water	LOTAP0136	1
Wepa/ AHD	Water	LOTAP0092	1
Wepa/ AHD	Water	LOTAP0104	2
Wepa/ Anzag	Water	15(AP0081)	1
Wepa/ Anzag	Water	16(LOTAP0092)	1
Wepa/ Anzag	Water	17(LOTAP0095)	1
Wepa/ Anzag	Water	18(LOTAP0097)	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Wepa/ Anzag	Water	19(LOTAP0102)	1
Wepa/ Anzag	Water	20(LOTAP0104)	1
Wepa/ Anzag	Water	210903(LOTAP0146)	1
Wepa/ Anzag	Water	211129(LOTAP0152)	1
Wepa/ Anzag	Water	220309(LOTAP0156)	1
Wepa/ Anzag	Water	220525(LOTAP0160)	1
Wepa/ Anzag	Water	220826(LOTAP0160)	1
Wepa/ Anzag	Water	29(LOTAP0129)	1
Wepa/ Anzag	Water	31(LOTAP0140)	1
Wepa/ Anzag	Water	32(LOTAP0141)	1
Wepa/ Anzag	Water	33(LOTAP0143)	1
Wepa/ Fiebig	Water	LOTAP0139	1
Wepa/ Gehe	Water	LOTAP0131	1
Wepa/ Gehe	Water	LOTAP0134	1
Wepa/ Gehe	Water	LOTAP0140	1
Wepa/ Gehe	Water	LOTAP0143	1
Wepa/ Gehe	Water	LOTAP0147	1
Wepa/ Gehe	Water	LOTAP0150	1
Wepa/ Gehe	Water	LOTAP0155	1
Wepa/ Gehe	Water	LOTAP0160	1
WEPA/ Gehe	Water	LOTAP-SP0005	1
WEPA/ Gehe	Water	LOTAP-SP0008	2
Wepa/ Gehe	Water	OTAP0138	1
Wepa/ Löwen	Water	LOTAP0073	1
WEPA/ Phö	Water	AP0118	1
Wepa/ Phoenix	Water	LOTAP0059	2
Wepa/ Phoenix	Water	LOTAP-SP0010	1
Wepa/ Phönix	Water	LOTAT0086	1
Wepa/ Sanacorp	Water	AP-SP0009	1
Wepa/ Sanacorp	Water	LOTAP0149	1
Wepa/ Sanacorp	Water	LOTAP-SP0003	1
Wepa/ Sanacorp	Water	LOTAP-SP0006	1
Wepa/ Sanacorp	Water	LOTAP-SP0016	1
Wepa/ Sanacorp	Water	-SP001000	1
Wepa/ wepa	Water		6
Wepa/ Wepa	Water	LOTAP0044	1
Wepa/ wepa	Water	LOTAP0048	1
Wepa/ Wepa	Water	LOTAP0051	1
Wepa/ Wepa	Water	LOTAP0071	2
Wepa/ Wepa	Water	LOTAP0094	1
Wepa/ Wepa	Water	LOTAP-SP0016	2
WEPA/ WEPA	Water	LOTAS-SP0005	1
Wepa/AHCA	Water	LOTAP0077	1
Wepa/AHCA	Water	LOTAP0082	1
Wepa/AHCA	Water	LOTAP0087	1
Wepa/AHCA	Water	LOTAP0091	2
Wepa/AHCA	Water	LOTAP0102	1
Wepa/AHCA	Water	LOTAP0107	1
Wepa/AHCA	Water	LOTAP0111	1
Wepa/AHD	Water	10(LOTAP0062)	1
Wepa/AHD	Water	11(LOTAP0062)	1
Wepa/AHD	Water	13(LOTAP0078)	1
Wepa/AHD	Water	14(AP0076)	1
Wepa/AHD	Water	LOTAP0069	2
Wepa/AHD	Water	LOTAP0074	1
WEPA/AHD	Water	LOTAP0126	3
Wepa/Alliance 09.03.20	Water	LOTAP0117	1
WEPA/Alliance Healthcare	Water	LOTAP-SP0005	1
WEPA/Alliance	Water	LOTAP0130	1
Wepa/Alliance	Water	LOTAP0139	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
WEPA/Allianz	Water	LOTAP0131	1
Wepa/Anzag 11.07.2017	Water	LOTAP0055	3
Wepa/Anzag	Water	LOTAP0121	1
Wepa/Anzag	Water	LOTAP0128	1
Wepa/Anzag	Water	LOTAP-SP0007	1
Wepa/Anzag	Water	LOTAP-SP0010	2
Wepa/Fiebig 02.06.2021	Water	LOTAP0143	1
Wepa/Fiebig 04.11.2021	Water	LOTAP0147	1
Wepa/Fiebig 23.11.20	Water	LOTAP0137	1
Wepa/Fiebig 25.08.2020	Water	LOTAP0131	1
WEPA/Fiebig	Water	AP0110	1
WEPA/Fiebig	Water	AP0147	1
Wepa/Fiebig	Water	LOTAP0100	1
WEPA/Fiebig	Water	LOTAP0135	1
wepa/gehe	Water	12298	1
WEPA/Gehe	Water	20180515-03P	1
Wepa/Gehe	Water	AP0135	2
Wepa/Gehe	Water	AP-SP0022	1
WEPA/Gehe	Water	AP-SP0022	1
WEPA/Gehe	Water	LOTAP0082	1
Wepa/Gehe	Water	LOTAP0101	1
Wepa/Gehe	Water	LOTAP0110	1
Wepa/Gehe	Water	LOTAP0118	1
Wepa/Gehe	Water	LOTAP0141	2
wepa/gehe	Water	LOTAP-SP0002	1
wepa/gehe	Water	LOTAP-SP0003	1
Wepa/Gehe	Water	LOTAP-SP0004	2
Wepa/Gehe	Water	LOTAP-SP0005	1
Wepa/Gehe	Water	LOTAP-SP0006	1
Wepa/Gehe	Water	LOTAp-SP0010	1
Wepa/Gehe	Water	LOTAP-SP0012	4
Wepa/Gehe	Water	LOTAP-SP0013	5
Wepa/Gehe	Water	LOTAP-SP0014	2
Wepa/Gehe	Water	LOTAP-SP0016	1
WEPA/Gehe	Water	LOT-AP-SP0017	1
Wepa/Gehe	Water	LOTAP-SP004	1
wepa/gehe	Water	-SP000008	1
Wepa/Gehe	Water	-SP001001	1
Wepa/Gehe	Water	-SP001002	1
Wepa/Gehe	Water	-SP0013	1
Wepa/Gehe	Water	-SP0016	1
Wepa/Gehe	Water	-SP0017	1
Wepa/Gehe	Water	-SP002000	1
Wepa/Geilenkirchen	Water	LOTAP-SP0012	1
Wepa/Geilenkirchen	Water	LOTAPSP0014	1
Wepa/Geilenkirchen	Water	LOTAP-SP0015	1
Wepa/Jenne	Water	LOTAP-SP0010	2
Wepa/Kehr	Water	AP-SP0005	2
Wepa/Kehr	Water	AP-SP0011	1
Wepa/Kehr	Water	LOTAP0138	1
Wepa/Kehr	Water	LOTAPSP0013	1
Wepa/Kehr	Water	LOTAP-SP0014	1
WEPA/Krieger	Water	AP-SP0009	1
WEPA/Krieger	Water	LOTAP-SP0009	1
Wepa/Krieger	Water	LOTAP-SP0011	1
Wepa/Noweda	Water	20000418001	2
Wepa/Noweda	Water	AP0079	1
Wepa/Noweda	Water	AP-SP0015	1
Wepa/Noweda	Water	LOTAP0101	1
Wepa/Noweda	Water	LOTAP0103	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Wepa/Noweda	Water	LOTAP0107	1
WEPA/Noweda	Water	lotap0117	1
Wepa/Noweda	Water	LOTAP0118	1
WEPA/Noweda	Water	LOTAP0127	1
WEPA/Noweda	Water	LOTAP0131	1
Wepa/Noweda	Water	LOTAP-SP0001	1
Wepa/Noweda	Water	LOTAP-SP0002	1
Wepa/Noweda	Water	LOT-AP-SP0017	1
WEPA/Pheonix	Water	LOTAP0068	1
WEPA/Phoenix	Water	LOTAP0114	1
WEPA/Phoenix	Water	LOTAP-SP0007	1
Wepa/Phönix	Water	AP-SP0008	1
WEPA/Phönix	Water	LOTAP0093	2
WEPA/Phönix	Water	LOTAP0097	1
WEPA/Phönix	Water	LOTAP0098	2
Wepa/Phönix	Water	LOTAP0120	1
WEPA/Phönix	Water	LOTAP-SP0005	1
Wepa/Phönix	Water	LOTAP-SP0007	1
WEPA/Phönix	Water	LOTAP-SP0007	1
Wepa/Phönix	Water	LOTAP-Sp0017	1
wepa/Sanaco	Water	LOTAP0028	1
wepa/Sanacorp	Water	AP0027	1
Wepa/Sanacorp	Water	AP0110	1
Wepa/Sanacorp	Water	AP0117	1
Wepa/Sanacorp	Water	AP-SP0003	2
Wepa/Sanacorp	Water	AP-SP0005	2
Wepa/Sanacorp	Water	AP-SP0006	1
Wepa/Sanacorp	Water	AP-SP0009	2
Wepa/Sanacorp	Water	AP-SP0010	3
Wepa/Sanacorp	Water	AP-SP0016	1
Wepa/Sanacorp	Water	AP-SP0018	1
Wepa/Sanacorp	Water	AP-SP0020	1
Wepa/Sanacorp	Water	LOTAP0047	1
Wepa/Sanacorp	Water	LOTAP0067	2
Wepa/Sanacorp	Water	LOTAP0068	1
Wepa/Sanacorp	Water	LOTAP0076	1
Wepa/Sanacorp	Water	LOTAP0080	1
Wepa/Sanacorp	Water	LOTAP0081	2
Wepa/Sanacorp	Water	LOTAP0082	1
Wepa/Sanacorp	Water	LOTAP0084	1
Wepa/Sanacorp	Water	LOTAP0089	1
Wepa/Sanacorp	Water	LOTAP0091	1
Wepa/Sanacorp	Water	LOTAP0096	1
Wepa/Sanacorp	Water	LOTAP0098	1
WEPA/Sanacorp	Water	LOTAP0105	2
Wepa/Sanacorp	Water	LOTAP0106	1
WEPA/Sanacorp	Water	LOTAP0114	1
Wepa/Sanacorp	Water	LOTAP0116	1
WEPA/Sanacorp	Water	LOTAP0118	1
Wepa/Sanacorp	Water	LOTAP0119	1
WEPA/Sanacorp	Water	LOTAP0126	2
WEPA/Sanacorp	Water	LOTAP0128	1
WEPA/Sanacorp	Water	LOTAP0136	1
WEPA/Sanacorp	Water	LOTAP0137	2
Wepa/Sanacorp	Water	LOTAP0148	1
WEPA/Sanacorp	Water	LOTAP0148	1
Wepa/Sanacorp	Water	LOTAP-SP0002	1
Wepa/Sanacorp	Water	LOTAP-SP0003	1
Wepa/Sanacorp	Water	LOTAP-SP0004	3
Wepa/Sanacorp	Water	LOTAP-SP0005	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Wepa/Sanacorp	Water	LOTAP-SP0006	5
Wepa/Sanacorp	Water	LOTAP-SP0007	1
Wepa/Sanacorp	Water	LOTAP-SP0010	1
WEPA/Sanacorp	Water	LOTAP-SP0011	1
Wepa/Sanacorp	Water	LOTAP-SP0012	3
Wepa/Sanacorp	Water	LOTAP-SP0013	2
Wepa/Sanacorp	Water	LOTAP-SP0014	2
wepa/sanacorp	Water	LOTAP-SP0015	1
Wepa/Sanacorp	Water	LOTAP-SP0015	1
wepa/sanacorp	Water	LOTAP-SP0016	1
Wepa/Sanacorp	Water	LOTAP-SP0016	2
Wepa/sanacorp	Water	LOTAP-SP0017	1
Wepa/Sanacorp	Water	LOTAP-SP0017	1
Wepa/Sanacorp	Water	LOTAP-SP0019	1
Wepa/Sanacorp	Water	LOTAQ-SP0003	1
Wepa/Sanacorp	Water	LOTAS-SP0016	1
Wepa/Sanacorp	Water	LOTAS-SP0017	1
Wepa/Sanacorp	Water	LOTAT0092	1
WEPA/Trans-o-flex	Water	LOTAP0089	2
WEPA/Trans-o-flex	Water	LOTAP0103	1
WEPA/Trans-o-flex	Water	LOTAP0112	2
WEPA/Trans-o-flex	Water	LOTAP0118	1
WEPA/Trans-o-flex	Water	LOTAP0124	1
Wepa/Wepa Apothekenbeda...	Water	AP0116	1
Wepa/Wepa/ 13.05.2019/ ...	Water	LOTAP0101	1
WEPA/WEPA/ 21.01.2020/ ...	Water	LOTAP0116	2
Wepa/Wepa/ 28.10.2019/ ...	Water	AP0113	1
Wepa/Wepa/ 28.10.2019/ ...	Water	AP00113	1
Wepa/Wepa	Water		2
Wepa/Wepa	Water	12(AP0074)	1
Wepa/Wepa	Water	18C19-T31-054017	4
Wepa/Wepa	Water	2xLOTAP0081	1
Wepa/Wepa	Water	9(LOTAP0061)	1
WEPA/WEPA	Water	AP0013	1
WEPA/WEPA	Water	AP0095	1
WEPA/WEPA	Water	AP0106	1
Wepa/Wepa	Water	AP0121	1
Wepa/Wepa	Water	AP0123	1
WEPA/WEPA	Water	AP0127	1
WEPA/WEPA	Water	AP0132	1
Wepa/Wepa	Water	AP0138	2
WEPA/WEPA	Water	AP0139	1
Wepa/Wepa	Water	AP0900	1
Wepa/Wepa	Water	AP-SP0001	1
Wepa/Wepa	Water	AP-SP0004	1
Wepa/Wepa	Water	AP-SP0008	2
Wepa/Wepa	Water	AP-SP0009	1
WEPA/WEPA	Water	AP-SP0012	1
Wepa/Wepa	Water	AP-SP0015	1
Wepa/Wepa	Water	AP-SP0017	2
Wepa/Wepa	Water	AP-SP002	1
WEPA/WEPA	Water	AP-SP0020	1
Wepa/Wepa	Water	LOTAP_SP0007	1
Wepa/Wepa	Water	LOTAP0032	1
Wepa/Wepa	Water	LOTAP0041	1
Wepa/Wepa	Water	LOTAP0046	1
Wepa/wepa	Water	LOTAP0054	1
WEPA/WEPA	Water	LOTAP0056	1
Wepa/Wepa	Water	LOTAP0058	1
WEPA/WEPA	Water	LOTAP0061	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Wepa/Wepa	Water	LOTAP0068	1
Wepa/Wepa	Water	LOTAP0072	1
Wepa/Wepa	Water	LOTAP0077	1
WEPA/WEPA	Water	LOTAP0077	1
Wepa/Wepa	Water	LOTAP0078	1
WEPA/WEPA	Water	LOTAP0078	1
Wepa/Wepa	Water	LOTAP0082	1
Wepa/Wepa	Water	LOTAP0083	2
Wepa/Wepa	Water	LOTAP0086	2
Wepa/Wepa	Water	LOTAP0088	2
Wepa/Wepa	Water	LOTAP0089	1
Wepa/Wepa	Water	LOTAP0090	2
Wepa/Wepa	Water	LOTAP0091	1
Wepa/Wepa	Water	LotAP0092	2
Wepa/Wepa	Water	LOTAP0094	2
Wepa/Wepa	Water	lotap0095	1
Wepa/Wepa	Water	LOTAP0096	1
WEPA/WEPA	Water	LOTAP0096	1
Wepa/Wepa	Water	LOTAP0097	1
Wepa/Wepa	Water	LOTAP0098	5
Wepa/Wepa	Water	LOTAP0099	1
Wepa/Wepa	Water	LOTAP0100	5
WEPA/WEPA	Water	LOTAP0100	1
Wepa/Wepa	Water	LOTAP0103	1
Wepa/Wepa	Water	LOTAP0106	1
Wepa/Wepa	Water	LOTAP0108	3
WEPA/WEPA	Water	LOTAP0110	1
Wepa/Wepa	Water	LOTAP0111	2
Wepa/Wepa	Water	LOTAP0112	1
WEPA/WEPA	Water	LOTAP0117	1
Wepa/wepa	Water	LOTAP0119	1
WEPA/Wepa	Water	LOTAP0121	1
Wepa/wepa	Water	LOTAP0123	1
Wepa/Wepa	Water	LOTAP0123	1
WEPA/WEPA	Water	LOTAP0123	1
WEPA/Wepa	Water	LOTAP0124	8
Wepa/Wepa	Water	LOTAP0125	1
WEPA/Wepa	Water	LOTAP0127	2
Wepa/Wepa	Water	LOTAP0130	3
Wepa/Wepa	Water	LOTAP0131	2
WEPA/Wepa	Water	LOTAP0133	2
Wepa/Wepa	Water	LOTAP014	1
Wepa/Wepa	Water	LOTAP0140	1
Wepa/Wepa	Water	LOTAP0143	2
Wepa/Wepa	Water	LOTAP0145	2
Wepa/Wepa	Water	LOTAP0157	1
WEPA/WEPA	Water	LOTAP-SP0001	1
Wepa/Wepa	Water	LOTAP-SP00010	1
WEPA/WEPA	Water	LOTAP-SP0002	1
Wepa/Wepa	Water	LOTAP-SP0003	1
WEPA/WEPA	Water	LOTAP-SP0003	1
Wepa/Wepa	Water	LOTAP-SP0004	3
WEPA/WEPA	Water	lotap-sp0004	1
WEPA/WEPA	Water	LOTAP-SP0004	3
Wepa/Wepa	Water	LOTAP-SP0005	4
Wepa/wepa	Water	Lot-AP-SP0006	1
WEPA/WEPA	Water	LOTAP-SP0006	1
WEPA/WEPA	Water	LOT-AP-SP0006	1
WEPA/WEPA	Water	LOTAP-SP0008	1
Wepa/Wepa	Water	LOTAP-SP0009	5

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Wepa/Wepa	Water	LOTAP-SP0010	1
Wepa/Wepa	Water	LOTAP-SP0011	1
Wepa/Wepa	Water	LOTAP-SP0012	2
Wepa/Wepa	Water	LOTAP-SP0014	3
Wepa/Wepa	Water	LOTAP-SP0015	2
Wepa/Wepa	Water	LOTAP-SP0016	1
Wepa/Wepa	Water	LOTAP-SP0019	1
Wepa/Wepa	Water	LOTAP-SP0021	1
Wepa/Wepa	Water	LOTAP-SP008	1
WEPA/WEPA	Water	-SP000008	1
Wepa/Wepa	Water	-SP001001	1
WEPA/WEPA	Water	-SP001002	1
Wepa/Wepa	Water	-SP001011	1
WEPA/WEPA	Water	-SP0012	1
Wepa/Wepa	Water	SP0013	1
Wepa/Wepa	Water	-SP0013	1
Wepa/Wepa	Water	-SP0020	1
Wepa/Zentrum	Water	LOTAP0097	1
Wepa/Zentrum	Water	LOTAP-SP0001	1
Wepa	Water		15
WEPA	Water		5
Wepa	Water	12200	1
WEPA	Water	12456898	1
Wepa	Chlorhexidine digluconate so…	18215612	1
WEPA	Water	18305501	1
wepa	Water	18C19-T30-054012	1
Wepa	Water	19F27-T11-068903	1
Wepa	Water	219210	2
wepa	Water	3245	1
Wepa	Water	AP0024	1
Wepa	Water	AP0029	1
Wepa	Water	AP0054	1
Wepa	Water	ap0069	1
Wepa	Water	AP0071	1
Wepa	Water	AP0074	1
Wepa	Water	AP0075	1
WEPA	Water	AP0076	1
Wepa	Water	AP008	1
Wepa	Water	AP0080	1
wepa	Water	ap0081	1
Wepa	Water	AP0082	1
Wepa	Water	AP0087	1
wepa	Water	AP0089	1
Wepa	Water	AP0089	2
Wepa	Water	AP0094	1
Wepa	Water	AP0095	1
Wepa	Water	AP0096	1
Wepa	Water	AP0098	1
Wepa	Water	AP0099	1
Wepa	Water	AP0100	1
Wepa	Water	AP0102	1
Wepa	Water	AP0104	1
WEPA	Water	AP0105	1
WEPA	Water	AP0108	1
Wepa	Water	AP0109	1
Wepa	Water	AP0110	1
Wepa	Water	AP0111	2
Wepa	Water	AP0113	2
Wepa	Water	Ap0115	1
Wepa	Water	AP0118	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Wepa	Water	AP0122	3
Wepa	Water	AP0123	3
WEPA	Water	AP0124	1
Wepa	Water	AP0124x4	1
Wepa	Water	AP0127	1
Wepa	Water	AP0135	1
Wepa	Water	AP0140	1
WEPA	Water	AP0140	1
Wepa	Water	AP0141	1
Wepa	Water	AP0144	1
WEPA	Water	AP0146	1
Wepa	Water	AP0147	1
Wepa	Water	AP0148	1
WEPA	Water	APLOT0120	1
Wepa	Water	AP-SP0001	1
Wepa	Water	AP-SP0002	1
Wepa	Water	AP-SP0003	1
WEPA	Water	AP-SP0003	1
Wepa	Water	AP-SP0005	4
Wepa	Water	apsp0006	1
Wepa	Water	AP-SP0007	1
Wepa	Water	AP-SP0011	1
Wepa	Water	AP-SP0014	1
WEPA	Water	AP-SP0014	1
Wepa	Water	AP-SP0015	1
Wepa	Water	AP-SP0016	2
WEPA	Water	AP-SP0017	1
Wepa	Water	AP-SP0020	1
WEPA	Water	AP-SP0021	1
Wepa	Water	loap0107	1
Wepa	Water	LOAP0144	1
wepa	Water	LOT0094AP	1
Wepa	Water	LOTAP0003	1
Wepa	Water	LOTAP0012	1
WEPA	Water	LOTAP0012	2
Wepa	Water	LOTAP0013	1
Wepa	Water	LOTAP0015	1
Wepa	Water	LOTAP0017	1
Wepa	Water	LOTAP0020	1
Wepa	Water	LOTAP0021	1
Wepa	Water	LOTAP0023	1
wepa	Water	LOTAP0024	1
Wepa	Water	LOTAP0025	1
WEPA	Water	LOTAP0025	2
Wepa	Water	LOTAP0030	1
wepa	Water	LOTAP0031	1
wepa	Water	LOTAP0033	3
Wepa	Water	LOTAP0035	1
Wepa	Water	LOTAp0036	1
WEPA	Water	LOTAP0036	1
wepa	Water	LOTAP0038	1
WEPA	Water	LOTAP0038	2
WEPA	Water	LOTAP0039	1
wepa	Water	LOTAP0040	1
Wepa	Water	LOTAP0040	2
wepa	Water	LOTAP0045	1
Wepa	Water	LOTAP0046	2
WEPA	Water	LOTAP0047	1
wepa	Water	LOTAP0048	1
Wepa	Water	LOTAP0048	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
WEPA	Water	LOTAP00500	1
WEPA	Water	LOTAP0051	1
Wepa	Water	LOTAP0052	2
Wepa	Water	LOTAP0053	1
WEPA	Water	LOTAP0053	1
Wepa	Water	LOTAP0054	2
WEPA	Water	LOTAP0054	1
wepa	Water	LOTAP0058	3
Wepa	Water	LOTAP0059	1
Wepa	Water	LOTAP0060	1
Wepa	Water	LOTAP0061	1
WEPA	Water	LOTAP0062	1
Wepa	Water	LOTAP0064	2
wepa	Water	LOTAP0065	1
Wepa	Water	LOTAP0065	3
Wepa	Water	LOTAP0066	2
Wepa	Water	LOTAP0067	3
Wepa	Water	LOTAP0068	1
wepa	Water	LOTAP0069	1
WEPA	Water	LOTAP0069	1
Wepa	Water	LOTAP0070	1
Wepa	Water	LOTAP0071	1
WEPA	Water	LOTAP0071	3
Wepa	Water	LOTAP0072	4
WEPA	Water	LOTAP0072	1
Wepa	Water	LOTAP0073	1
Wepa	Water	LOTAP0074	4
WEPA	Water	LOTAP0075	2
Wepa	Water	LOTAP0076	2
Wepa	Water	LOTAP0077	2
Wepa	Water	LOTAP0078	6
WEPA	Water	LOTAP0078	2
Wepa	Water	LOTAP0079	3
WEPA	Water	LOTAP0079	1
wepa	Water	LOTAP0080	1
Wepa	Water	LOTAP0080	2
WEPA	Water	LOTAP0080	3
wepa	Water	LOTAP0081	2
Wepa	Water	LOTAP0081	1
WEPA	Water	LOTAP0081	1
WEPA	Water	LOTAP00812mal5l	1
Wepa	Water	LOTAP0082	5
Wepa	Water	LOTAP0083	6
Wepa	Water	LOTAP0084	2
WEPA	Water	LOTAP0084	2
Wepa	Water	LOTAP0085	2
Wepa	Water	LOTAP0086	1
Wepa	Water	LOTAP0087	3
WEPA	Water	LOTAP0087	2
Wepa	Water	LOTAP0088	3
WEPA	Water	LOTAP0089	1
Wepa	Water	LOTAP0090	1
Wepa	Water	LOTAP0091	3
Wepa	Water	LOTAP0092	1
WEPA	Water	LOTAP0092	1
Wepa	Water	LOTAP0093	2
wepa	Water	LOTAP0094	7
Wepa	Water	LOTAP0094	4
wepa	Water	LOTAP0095	1
Wepa	Water	LOTAP0095	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
WEPA	Water	LOTAP0095	2
Wepa	Water	LOTAP0096	4
Wepa	Water	LOTAP0097	1
WEPA	Water	LOTAP0097	2
Wepa	Water	LOTAP0098	2
wepa	Water	LOTAP0099	1
WEPA	Water	LOTAP0099	1
wepa	Water	LOTAP0101	8
Wepa	Water	LOTAP0101	4
Wepa	Water	LotAP0102	3
Wepa	Water	LOTAP0102	3
WEPA	Water	LOTAP0102	2
Wepa	Water	LOTAP0103	1
WEPA	Water	LOTAP0103	1
Wepa	Water	LOTAP0104	1
WEPA	Water	LOTAP0104	1
WEPA	Water	LOTAP0105	1
Wepa	Water	LOTAP0106	4
Wepa	Water	LOTAP0107	3
WEPA	Water	LOTAP0107	2
Wepa	Water	LOTAP0108	4
WEPA	Water	LOTAP0108	1
Wepa	Water	LOTAP0109	6
Wepa	Water	LOTAP0110	1
wepa	Water	LOTAP0111	1
Wepa	Water	LOTAP0111	11
Wepa	Water	LOtAP0112	1
Wepa	Water	LOTAP0112	3
WEPA	Water	LOTAP0112	1
Wepa	Water	LOTAP0113	3
Wepa	Water	LOTAP0114	2
Wepa	Water	LOTAP0115	6
WEPA	Water	LOTAP0115	1
Wepa	Water	LOTAP0115(3)	1
wepa	Water	LOTAP0116	2
Wepa	Water	LOTAP0116	5
Wepa	Water	LOTAP0117	5
WEPA	Water	LotAP0117	1
wepa	Water	LOTAP0118	2
Wepa	Water	LOTAP0118	6
WEPA	Water	LOTAP0119	1
Wepa	Water	LOTAP0120	2
Wepa	Water	LOTAP0121(3)	1
Wepa	Water	LOTAP0122	3
Wepa	Water	LOTAP0123	14
WEPA	Water	LOTAP0123	1
Wepa	Water	LOTAP0124	7
WEPA	Water	LotAP0124	1
Wepa	Water	LOTAP0126	4
WEPA	Water	LOTAP0126	3
Wepa	Water	LOTAP0127	6
WEPA	Water	LOTAP0127	1
Wepa	Water	LOTAP0128	1
Wepa	Water	LOTAP0129	2
WEPA	Water	LOTAP0129	1
Wepa	Water	LOTAP0130	1
Wepa	Water	LOTAP0131	3
WEPA	Water	LOTAP0131	1
Wepa	Water	LOTAP0132	4
Wepa	Water	Lotap0134	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Wepa	Water	LOTAP0135	2
WEPA	Water	LOTAP0135	1
Wepa	Water	LOTAP0136	2
Wepa	Water	LOTAP0137	4
Wepa	Water	LOTAP0138	1
WEPA	Water	LOTAP0138	1
Wepa	Water	LOTAP0140	10
WEPA	Water	LOTAP0140	2
WEPA	Water	LOTAP0142	3
Wepa	Water	LOTAP0143	1
Wepa	Water	LOTAP0144	2
WEPA	Water	LOTAP0144	1
wepa	Water	LOtAp0146	1
Wepa	Water	Lotap0146	1
Wepa	Water	LOTAP0148	1
Wepa	Water	LOTAP0149	1
Wepa	Water	LOTAP0150	1
WEPA	Water	LOTAP0150	1
Wepa	Water	LOTAP0151	1
Wepa	Water	LOTAP0152	1
Wepa	Water	LOTAP0153	1
Wepa	Water	LOTAP0154	1
Wepa	Water	LOTAP0156	2
wepa	Water	LOTAP0158	1
Wepa	Water	LOTAP0158	1
wepa	Water	LOTAP0159	1
Wepa	Water	LOTAP0159	2
Wepa	Water	LOTAP129	1
Wepa	Water	LOTAPSP0001	1
Wepa	Water	LOTAP-SP0001	8
WEPA	Water	LOT-AP-SP0001	1
wepa	Water	LOTAP-SP0002	1
Wepa	Water	LOTAP-SP0002	4
WEPA	Water	LOTAP-sp0002	1
WEPA	Water	LOTAP-SP0002	1
Wepa	Water	LOT-Ap-SP-0003	1
Wepa	Water	LOTAPSP0003	2
Wepa	Water	LOTAP-SP0003	9
Wepa	Water	LOTAP-SP-0003	1
Wepa	Water	LOT-AP-SP0003	1
WEPA	Water	lotap-sp0003	1
wepa	Water	LOTAP-SP0004	1
Wepa	Water	LOTAP-SP0004	8
Wepa	Water	LOTap-sp0005	2
Wepa	Water	LOTAP-SP0005	11
WEPA	Water	lotap-sp0005	1
wepa	Water	LOTAP-SP0006	1
Wepa	Water	LOTAP-SP0006	9
WEPA	Water	LOTAP-SP0006	2
Wepa	Water	LOTAP-SP0007	5
WEPA	Water	LOTAP-SP0007	2
Wepa	Water	LOTAP-SP0008	6
WEPA	Water	LOTAP-SP0008	2
Wepa	Water	LOTAP-SP0009	8
Wepa	Water	LOTAP-SP0010	1
WEPA	Water	LOTAP-SP0010	2
Wepa	Water	LOTAP-SP0011	2
Wepa	Water	LotAP-SP0012	1
Wepa	Water	LOTAP-SP0012	4
Wepa	Water	LOT-AP-SP0012	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
WEPA	Water	LOTAP-SP0012	2
Wepa	Water	LotAP-SP0014	1
Wepa	Water	LOTAP-SP0014	1
WEPA	Water	LOTAP-SP0014	2
Wepa	Water	LOTAP-SP0015	2
WEPA	Water	LOTAP-SP0015	2
Wepa	Water	LOTAP-SP0016	1
WEPA	Water	LOTAP-SP0016	1
WEPA	Water	LOTAP-SP0017	1
Wepa	Water	LOTAP-SP0018	1
WEPA	Water	LOTAP-SP0018	1
Wepa	Water	LOTAP-SP0019	1
Wepa	Water	LOTAP-SP0020	2
Wepa	Water	LOTAP-SP0021	1
WEPA	Water	LOTAP-SP00212	1
Wepa	Water	LOTAP-SP0022	2
WEPA	Water	LOTAP-SP0024	1
Wepa	Water	LOT-Ap-SP005	1
Wepa	Water	-SP0007	1
WEPA	Water	-SP001000	1
WEPA	Water	-SP0017	1
WEPA	Water	-SP002000	1
Wepa-Apothekenbedarf	Water	LOTAP0069	1
WEPA-WEPA	Water	LOTAP0028	1

- 284 392 spectra from 1324 *Apo-Ident* customers from a total of 50 573 batches from a further 340 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Water and aqueous solutions* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Water and aqueous solutions* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	1415	0	67 084
Type B	0	2669	1	108 384
Type C	0	12 932	134	283 975

The substance/substance group *Water and aqueous solutions* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.5760 %)
Type B	100.0000 % (> 99.9683 %)	99.9625 % (> 99.8502 %)
Type C	100.0000 % (> 99.6973 %)	98.9744 % (> 98.9515 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several

new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Water and aqueous solutions* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Dextrorotary lactic acid 20%	14.82	–
Hydrophilic base emulsion (NRF p.25)	24.44	–
Chest elixir	29.38	–
Gel basis Audor®	33.82	–
Liquorice juice purified, diluted	34.61	–
Fortified wine	38.83	–
Non-ionic hydrous liniment SR/DAC (NRF…	39.72	–
Polyhexanide solution 20%	45.56	–
Condurango wine	45.89	–
Sodium-(s)-lactate solution 50%	48.68	–
Lotio Cordes®	48.75	–
Hydrophilic cream, non-ionic SR (NRF p…	48.81	–
Hydrated liniment SR/DAC (NRF p.40)	48.83	–
Glycolic acid 70%	49.31	–
Viscous base solution (NRF p. 20)	50.88	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Water and aqueous solutions* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30869	31342	5.88	18.75
31057	31718	2.73	32.05
31240	31735	2.50	24.90
31342	31342	0.00	16.29
31463	31463	0.00	26.71
31624	31718	1.86	30.78
31676	32354	4.54	33.24
31705	31735	9.76	24.14
31718	31718	0.00	31.46

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31735	31735	0.00	24.82
31809	31718	4.02	28.86
31829	31463	3.71	24.53
31846	31846	0.00	25.57
31959	31342	4.90	16.56
32308	31846	9.09	23.58
32354	32354	0.00	31.13
32732	31846	2.27	24.20
32831	32831	0.00	33.43
32832	32832	0.00	33.48
32921	31342	9.35	18.74
34690	31342	4.99	18.44
35112	35112	0.00	28.79
35113	35113	0.00	27.25
35163	35163	0.00	27.66
35315	35315	0.00	27.99
35539	35539	0.00	33.07
35555	35555	0.00	28.20
35556	35556	0.00	28.37
35599	35599	0.00	28.37
35822	31342	5.39	12.97

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Wines**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30641-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Wines; Chest elixir; Condurango wine; Fortified wine; Gel basis Audor®; Liquiritiae succi elixir; Liquorice juice purified, diluted; Lotio Cordes®; Vinum condurangum; Vinum liquorosum

Special notes

When selecting the *Wines* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Wines	28	20	112

Second-stage model

For differentiation of the substance/substance group *Wines* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Wines*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Chest elixir	13003109	31213	40	1405332
Caelo	Chest elixir	14182707	31615	60	20140709
Caelo	Chest elixir	17013603	33619	40	20170125
Caelo	Chest elixir	191235	34642	40	20190506*
Caelo	Condurango wine	11239009	30901	60	20110909
Caelo	Condurango wine	14345603	31581	60	1505325
Caelo	Condurango wine	192836	35725	50	20191113*
Caelo	Fortified wine	13208302	31127	40	1403400
Caelo	Fortified wine	13208306	31222	70	20130822
Caelo	Fortified wine	13397204	31466	60	20131216
Caelo	Fortified wine	192855	34803	40	20191128*
Caelo	Fortified wine	21002750	35723	50	20210820*
Audor Pharma	Gel basis Audor®	AP111500	30641	40	20101104
Audor Pharma	Gel basis Audor®	AP103113G	31108	40	1404231
Audor Pharma	Gel basis Audor®	AP63101G	32751	40	20160906
Audor Pharma	Gel basis Audor®	AP63101G	32752	40	20160906
Audor Pharma	Gel basis Audor®	AP84001G	34599	40	20181019
Euro OTC	Gel basis Audor®	2012007	35249	40	20201223*
Euro OTC	Gel basis Audor®	2104016	35494	40	20210429*
Caelo	Liquorice juice ...	14203111	31652	60	20140711
Caelo	Liquorice juice ...	171695	33330	40	20170621*
Caelo	Liquorice juice ...	192332	34710	40	20191016*
Caelo	Liquorice juice ...	21000310	35280	40	20210202*
Ichthyol	Lotio Cordes®	12D014	31075	40	1403759
Ichthyol	Lotio Cordes®	14D010	31595	60	20140826
Ichthyol	Lotio Cordes®	15D002	32487	40	20150318
Ichthyol	Lotio Cordes®	19D002	34843	40	20190424
Ichthyol	Lotio Cordes®	20D0002	35758	50	20200909
Ichthyol	Lotio Cordes®	22D0009	36379	40	20220623

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 1340 spectra of 29 reference samples from the substance/substance group *Wines*. These samples are listed above in the *calibration samples* section. The reference samples come from 28 different batches.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- 67 159 spectra from a total of 1385 batches from further 223 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 820 spectra of 20 reference samples from the substance/substance group *Wines*.

- Among them are spectra of independent samples from 20 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Chest elixir	15379113	32956	40
Caelo	Chest elixir	181495	34228	40
Caelo	Chest elixir	20003484001	35742	50
Caelo	Condurango wine	15341903	32957	40
Caelo	Condurango wine	15341901	33836	40
Caelo	Condurango wine	180781	34074	40
Caelo	Fortified wine	161795	32336	40
Caelo	Fortified wine	171984	33712	40
Audor Pharma	Gel basis Audor®	AP53801G	32724	40
Audor Pharma	Gel basis Audor®	AP72301G	33626	40
Euro OTC	Gel basis Audor®	2008005	35078	40
Euro OTC	Gel basis Audor®	2110007	35774	50
Euro OTC	Gel basis Audor®	2203035	36224	40
Euro OTC	Gel basis Audor®	2208021	36560	40
Caelo	Liquorice juice purified, di...	161241	32200	40
Caelo	Liquorice juice purified, di...	16316201	33463	40
Caelo	Liquorice juice purified, di...	182598	34336	40
Ichthyol	Lotio Cordes®	15D021	32965	40
Ichthyol	Lotio Cordes®	16D011	33839	40
Ichthyol	Lotio Cordes®	20D0001	35107	40

- 110 493 spectra from a total of 2646 batches from further 345 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 524 spectra from 146 *Apo-Ident* customers from 124 batches from the substance/substance group *Wines*.

- Among them are spectra of independent samples from 111 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Alliance Health 05.06.2...	Lotio Cordes®	11D029	1
Anzag/Ichtyol-Gesellsch...	Lotio Cordes®	13D009	1
Anzag	Gel basis Audor®	103081G	1
Audor Pharma	Gel basis Audor®		12
Audor Pharma	Gel basis Audor®	102464	3
Audor Pharma	Gel basis Audor®	2005002-01	1
Audor Pharma	Gel basis Audor®	2008008-01	1
Audor Pharma	Gel basis Audor®	2012008-02	2
Audor Pharma	Gel basis Audor®	84001	3
Audor Pharma	Gel basis Audor®	92701	19
Audor Pharma	Gel basis Audor®	AP100852	1
Audor Pharma	Gel basis Audor®	AP100852G	2
Audor Pharma	Gel basis Audor®	AP102464	1
Audor Pharma	Gel basis Audor®	AP102464G	4
Audor Pharma	Gel basis Audor®	Ap103081G	1
Audor Pharma	Gel basis Audor®	AP103081G	2
Audor Pharma	Gel basis Audor®	ap103113g	1
Audor Pharma	Gel basis Audor®	AP103113G	1
Audor Pharma	Gel basis Audor®	AP103993G	3
Audor Pharma	Gel basis Audor®	AP53801G	7
Audor Pharma	Gel basis Audor®	AP72301G	30
Audor Pharma	Gel basis Audor®	AP80601G	29
Audor Pharma	Gel basis Audor®	ap84001g	5
Audor Pharma	Gel basis Audor®	AP84001G	16
Audor Pharma	Gel basis Audor®	AP90601	7
Audor Pharma	Gel basis Audor®	AP90601G	11
Breko	Fortified wine	201701v12	1
Breko	Fortified wine	201701v13	1
Caelo	Lotio Cordes®	10D011	20
Caelo	Liquorice juice purified, di...	11293208	1
Caelo	Liquorice juice purified, di...	117169505	1
Caelo	Fortified wine	12059809	2
Caelo	Liquorice juice purified, di...	12061203	1
Caelo	Lotio Cordes®	12081403	1
Caelo	Chest elixir	12091406	1
Caelo	Liquorice juice purified, di...	12116703	2
Caelo	Liquorice juice purified, di...	12116704	3
Caelo	Liquorice juice purified, di...	12116709	1
Caelo	Liquorice juice purified, di...	13067602	2
Caelo	Liquorice juice purified, di...	13067604	1
Caelo	Liquorice juice purified, di...	13067606	3
Caelo	Chest elixir	13121719	1
Caelo	Liquorice juice purified, di...	13133801	5
Caelo	Liquorice juice purified, di...	14002602	4
Caelo	Liquorice juice purified, di...	14203104	2
Caelo	Liquorice juice purified, di...	14203105	3
Caelo	Liquorice juice purified, di...	14203107	1
Caelo	Condurango wine	14345604	1
Caelo	Lotio Cordes®	14D010	1
Caelo	Lotio Cordes®	14D011	3
Caelo	Liquorice juice purified, di...	15144203	1
Caelo	Liquorice juice purified, di...	15144207	2
Caelo	Liquorice juice purified, di...	15155302	1
Caelo	Fortified wine	15175501	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Fortified wine	15175508	1
Caelo	Lotio Cordes®	15D002	1
Caelo	Lotio Cordes®	15D022	1
Caelo	Liquorice juice purified, di...	16124103	6
Caelo	Liquorice juice purified, di...	16124108	4
Caelo	Liquorice juice purified, di...	16124109	1
Caelo	Fortified wine	16179505	1
Caelo	Liquorice juice purified, di...	16316201	5
Caelo	Liquorice juice purified, di...	16316202	1
Caelo	Liquorice juice purified, di...	16316208	4
Caelo	Liquorice juice purified, di...	17169504	1
Caelo	Liquorice juice purified, di...	17169505	2
Caelo	Liquorice juice purified, di...	17169508	3
Caelo	Liquorice juice purified, di...	1803401	1
Caelo	Liquorice juice purified, di...	18034101	2
Caelo	Gel basis Audor®	18041301	1
Caelo	Chest elixir	18101306	1
Caelo	Liquorice juice purified, di...	18155006	2
Caelo	Liquorice juice purified, di...	18155009	1
Caelo	Liquorice juice purified, di...	18259805	2
Caelo	Liquorice juice purified, di...	18259806	1
Caelo	Liquorice juice purified, di...	18259808	2
Caelo	Chest elixir	19071402	1
Caelo	Liquorice juice purified, di...	192332001	1
Caelo	Liquorice juice purified, di...	19233204	1
Caelo	Liquorice juice purified, di...	19233205	1
Caelo	Fortified wine	192855003	1
Caelo	Liquorice juice purified, di...	20001779008	2
Caelo	Liquorice juice purified, di...	2001779008	1
Caelo	Liquorice juice purified, di...	21000310007	1
Caelo	Liquorice juice purified, di...	21000310010	1
Caelo	Liquorice juice purified, di...	21004190001	1
Caelo	Chest elixir	3031506	1
Caelo	Liquorice juice purified, di...	3321	1
Caelo	Gel basis Audor®	AP53801G	3
Caelo	Gel basis Audor®	AP80601G	3
Caelo	Liquorice juice purified, di...	CH-B18259803	1
Caesar & Loretz GmbH	Liquorice juice purified, di...	18259808	1
Caesar & Loretz GmbH	Liquorice juice purified, di...	19233205	1
CORDES/NOWEDA	Lotio Cordes®	20D0002	1
Euro OTC	Lotio Cordes®	15D022	2
Euro OTC	Gel basis Audor®	200500201	1
Euro OTC	Gel basis Audor®	2005002-01	18
Euro OTC	Gel basis Audor®	2005003-01	1
Euro OTC	Gel basis Audor®	2008005-01	18
Euro OTC	Gel basis Audor®	2008008-01	1
Euro OTC	Gel basis Audor®	2012008-02	6
Euro OTC	Gel basis Audor®	2104016-01	4
Euro OTC	Gel basis Audor®	2110007-01	12
Euro OTC	Gel basis Audor®	92701	1
Fagron	Liquorice juice purified, di...	15155302	2
Fagron	Lotio Cordes®	19D002	1
Fagron	Gel basis Audor®	AP103993G	1
Fiebig	Chest elixir	11019106	1
Gehe/ Ichthyol Gesellsc...	Lotio Cordes®	19D002	1
Gehe	Gel basis Audor®	AP84001G	1
Geibo/Ichtyol	Lotio Cordes®	18D002	1
Ichthiol/Sanacorp	Lotio Cordes®	18D002	1
Ichthol/ gehe 06.11.17	Lotio Cordes®	16d010	1
Ichthyol / Gehe	Lotio Cordes®	15D022	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol / Gehe	Lotio Cordes®	16D011	1
Ichthyol / Geibo	Lotio Cordes®	14Do11	1
Ichthyol / Noweda	Lotio Cordes®	14D010	2
Ichthyol / Noweda	Lotio Cordes®	19D002	1
Ichthyol / Phönix	Lotio Cordes®	19D001	1
ichthyol /107	Lotio Cordes®	19D001	1
Ichthyol /Anzag	Lotio Cordes®	95(20D0001)	1
Ichthyol /Noweda	Lotio Cordes®	15D001	1
Ichthyol Gesellschaft C...	Lotio Cordes®	18D001	1
Ichthyol Gesellschaft- ...	Lotio Cordes®	13D010	1
ICHTHYOL- Gesellschaft/...	Lotio Cordes®	19D002	1
Ichthyol Gesellschaft/C...	Lotio Cordes®	190002	1
Ichthyol Gesellschaft/G...	Lotio Cordes®	19D002	1
Ichthyol Gesellschaft/N...	Lotio Cordes®	15d001	1
Ichthyol Gesellschaft	Lotio Cordes®	15D021	1
Ichthyol Gesellschaft	Lotio Cordes®	19D002	1
Ichthyol/ Anzag	Lotio Cordes®	16D0100	1
Ichthyol/ Gehe	Lotio Cordes®	20D0001	1
Ichthyol/Alliance	Lotio Cordes®	15D002	1
Ichthyol/Anzag	Lotio Cordes®	15D002	1
Ichthyol/Ebert	Lotio Cordes®	15D022	1
Ichthyol/gehe	Lotio Cordes®	13D010	1
Ichthyol/gehe	Lotio Cordes®	14D010	2
Ichthyol/GEHE	Lotio Cordes®	14D011	1
Ichthyol/gehe	Lotio Cordes®	18D001	1
Ichthyol/Gehe	Lotio Cordes®	18D001	2
Ichthyol/gehe	Lotio Cordes®	18D002	5
Ichthyol/Gehe	Lotio Cordes®	18D002	1
Ichthyol/gehe	Lotio Cordes®	19D002	1
Ichthyol/Jenne	Lotio Cordes®	19D002	1
Ichthyol/Noweda	Lotio Cordes®	18D002	1
Ichthyol/Noweda	Lotio Cordes®	20D0001	2
Ichthyol/Phoenix	Lotio Cordes®	15D001	1
Ichthyol/Phoenix	Lotio Cordes®	15D002	1
Ichthyol/Phoenix	Lotio Cordes®	18D001	1
Ichthyol/Phönix	Lotio Cordes®	13D009	1
Ichthyol/Phönix	Lotio Cordes®	14D010	2
Ichthyol/Phönix	Lotio Cordes®	15D001	2
Ichthyol/Phönix	Lotio Cordes®	15D002	4
Ichthyol/Phönix	Lotio Cordes®	16D011	2
Ichthyol/Phönix	Lotio Cordes®	18D001	1
Ichthyol/Phönix	Lotio Cordes®	18D002	1
Ichthyol/Phönix	Lotio Cordes®	20D0001	1
Ichthyol/Sanacorp	Lotio Cordes®	14D010	1
Ichthyol	Lotio Cordes®	11D030	1
Ichthyol	Lotio Cordes®	13D009	1
Ichthyol	Lotio Cordes®	13D010	1
Ichthyol	Lotio Cordes®	14041402	1
Ichthyol	Lotio Cordes®	14D010	3
Ichthyol	Lotio Cordes®	14D011	1
Ichthyol	Lotio Cordes®	15D001	2
Ichthyol	Lotio Cordes®	15D002	2
ICHTHYOL	Lotio Cordes®	15D002	1
Ichthyol	Lotio Cordes®	16021509	1
Ichthyol	Lotio Cordes®	16D010	2
Ichthyol	Lotio Cordes®	16D011	2
Ichthyol	Lotio Cordes®	18D001	1
Ichthyol	Lotio Cordes®	18D002	1
Ichthyol	Lotio Cordes®	20D0001	1
Ichthyol	Lotio Cordes®	20D0002	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Ichthyol	Lotio Cordes®	27041507	1
Ichthyol	Lotio Cordes®	27041508	1
Ichthyol-G. / Sanacorp	Lotio Cordes®	15D001	1
Ichthyol-Gesellschaft /...	Lotio Cordes®	18D001	1
Ichthyol-Gesellschaft /...	Lotio Cordes®	20D0001	1
Ichthyol-Gesellschaft C...	Lotio Cordes®	19D001	1
Ichthyol-Gesellschaft, ...	Lotio Cordes®	13D010	1
ICHTHYOL-GESELLSCHAFT/N...	Lotio Cordes®	19D002	1
ICHTHYOL-GESELLSCHAFT/P...	Lotio Cordes®	19D002	1
Ichthyol-Gesellschaft	Lotio Cordes®	15D001	2
Ichthyol-Gesellschaft	Lotio Cordes®	15D002	1
Ichthyol-Gesellschaft	Lotio Cordes®	15D021	2
Ichthyol-Gesellschaft	Lotio Cordes®	15D022	3
Ichthyol-Gesellschaft	Lotio Cordes®	16D010	1
Ichthyol-Gesellschaft	Lotio Cordes®	18D001	1
Ichthyol-Gesellschaft	Lotio Cordes®	18D002	1
ICHTHYOL-GESELLSCHAFT	Lotio Cordes®	18D002	1
ICHTHYOL-GESELLSCHAFT	Lotio Cordes®	19D001	7
ICHTHYOL-GESELLSCHAFT	Lotio Cordes®	20D0001	2
ICHTHYOL-GESELLSCHAFT	Lotio Cordes®	20D0002	1
Ichthyol-Gesellschaft	Lotio Cordes®	30041806	1
Ichthyol-Gesellschaft	Lotio Cordes®	4111709	1
Ichtyhol-Gesellschaft	Lotio Cordes®	19D002	1
Ichtyol/Phoenix	Lotio Cordes®	18D002	1
ichtyol	Lotio Cordes®	12D014	1
Ichtyol	Lotio Cordes®	16D010	20
Ichtyol-Gesellschaft	Lotio Cordes®	15D002	1
Ichtyol-Gesellschaft	Lotio Cordes®	18D002	1
Jenne	Liquorice juice purified, di...	16124103	1
Kehr	Lotio Cordes®	16D011	1
Noweda	Fortified wine	16179509	1
Noweda	Liquorice juice purified, di...	181555009	1
Phoenix/Stiefel	Lotio Cordes®	12D014	1
Phoenix	Lotio Cordes®	20D0002	1
phönix	Fortified wine	16179508	1
Phönix	Liquorice juice purified, di...	18155009	1
VDL	Liquorice juice purified, di...	11293210	1
VDL	Liquorice juice purified, di...	12116703	2

- 296 934 spectra from 1324 *Apo-Ident* customers from a total of 52 864 batches from a further 338 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Wines* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Wines* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	1340	0	67 159
Type B	0	820	0	110 288
Type C	0	522	2	296 860

The substance/substance group *Wines* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.5522 %)
Type B	100.0000 % (> 99.9677 %)	100.0000 % (> 99.2683 %)
Type C	100.0000 % (> 99.6853 %)	99.6183 % (> 99.0458 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Wines* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Hydrophilic base emulsion (NRF p.25)	13.41	–
Viscous base solution (NRF p. 20)	20.57	–
Sodium-(s)-lactate solution 50%	25.58	–
Dextrorotary lactic acid 20%	29.93	–
Polyhexanide solution 20%	30.15	–
Non-ionic hydrous liniment SR/DAC (NRF...	32.66	–
Water	32.96	–
Hydrated liniment SR/DAC (NRF p.40)	33.35	–
Raspberry syrup (conserved)	34.04	–
Chlorhexidine digluconate solution	34.55	–
Aluminium acetotartrate solution	34.77	–
Marshmallow syrup (conserved)	39.42	–
Base cream, diluted	40.48	–
Gel Cordes®	46.08	–
Ribwort plantain syrup (conserved)	46.15	–
Glycolic acid 70%	48.26	–
Sugar syrup DAB	50.02	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Wines* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30641	35249	6.59	22.34
30901	35725	7.34	33.45
31075	31075	0.00	30.41
31108	31108	0.00	20.29
31127	31127	0.00	21.67
31213	31213	0.00	36.01
31222	31127	2.19	21.41
31466	31127	3.09	21.26
31581	31581	0.00	29.02
31595	31075	5.20	21.74
31615	34642	4.85	29.19
31652	34710	6.42	33.88
32487	31075	6.99	40.33
32751	35249	3.92	22.38
32752	35249	6.27	22.47
33330	33330	0.00	36.09
33619	31213	6.20	30.72
34599	35494	4.42	21.28
34642	34642	0.00	27.83
34710	34710	0.00	30.93
34803	34803	0.00	19.88
34843	31075	6.80	21.73
35249	35249	0.00	23.16
35280	35280	0.00	27.49
35494	35494	0.00	23.32
35723	35723	0.00	19.22
35725	35725	0.00	30.55
35758	31075	13.10	36.52
36379	31075	2.00	27.00

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Wood oils**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30710-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Wood oils; Cypress oil; Juniper wood oil; Juniperi ligni etheroleum; Oleum cupressi; Terebinthinae aetheroleum; Turpentine oil

Special notes

When selecting the *Wood oils* substance/substance group, the following information is displayed to the user:

- Advice: Currently no longer available from major pharmaceutical manufacturers. Therefore, batch maintenance is currently not possible.

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Wood oils	12	9	72

Second-stage model

For differentiation of the substance/substance group *Wood oils* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Wood oils*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Cypress oil	13349109	31837	60	1606484
Caelo	Cypress oil	16130501	32183	40	9464
Caelo	Juniper wood oil	11363504	30710	40	20111221
Caelo	Juniper wood oil	11363507	30860	40	20111221
Caelo	Juniper wood oil	13196208	31201	40	1405102
Caelo	Juniper wood oil	190399	34644	40	20190312*
Caelo	Turpentine oil	12383210	31214	40	1407275
Caelo	Turpentine oil	161997	32317	40	20160707*
Caelo	Turpentine oil	171509	33310	40	20170518*
Euro OTC	Turpentine oil	1312026-01	31531	60	20140113
Euro OTC	Turpentine oil	1511012	31815	60	20151214*
Euro OTC	Turpentine oil	1703005	33232	40	20170327*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 540 spectra of 12 reference samples from the substance/substance group *Wood oils*. These samples are listed above in the *calibration samples* section. The reference samples come from 12 different batches.

- 67 959 spectra from a total of 1401 batches from further 226 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples:

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 410 spectra of 10 reference samples from the substance/substance group *Wood oils*.
- Among them are spectra of independent samples from 9 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Cypress oil	17017101	33602	40
Caelo	Cypress oil	173150	33905	40
Caelo	Juniper wood oil	16055410	33506	40
Caelo	Juniper wood oil	171964	33914	40
Caelo	Juniper wood oil	21003138	35781	50
Caelo	Turpentine oil	181108	34060	40
Caelo	Turpentine oil	20004333002	35819	40
Caelo	Turpentine oil	22002031	36531	40
Euro OTC	Turpentine oil	1806017	34188	40
Caelo	Cypress oil	17017101	33603	40

- 110 903 spectra from a total of 2657 batches from further 348 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 196 spectra from 114 *Apo-Ident* customers from 75 batches from the substance/substance group *Wood oils*.
- Among them are spectra of independent samples from 69 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AHC 20.07 13 250ml	Turpentine oil	13106701	1
AHD	Turpentine oil	16199705	1
apo Ident / Noweda	Turpentine oil	1511012-01	1
Caelo	Cypress oil		1
Caelo	Turpentine oil	10296303	1
Caelo	Turpentine oil	11127905	1
Caelo	Turpentine oil	11127908	2
Caelo	Turpentine oil	11358903	5
Caelo	Turpentine oil	11358910	7
Caelo	Juniper wood oil	12342604	1
Caelo	Turpentine oil	12383201	1
Caelo	Turpentine oil	12383210	3
Caelo	Turpentine oil	13106701	9
Caelo	Turpentine oil	13378804	3
Caelo	Juniper wood oil	14008301	1
Caelo	Juniper wood oil	14008303	2
Caelo	Juniper wood oil	14008306	1
Caelo	Juniper wood oil	14008307	3
Caelo	Turpentine oil	14012601	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Turpentine oil	14071201	1
Caelo	Turpentine oil	14242701	1
Caelo	Turpentine oil	14242703	2
Caelo	Turpentine oil	1424703	1
Caelo	Turpentine oil	15084003	2
Caelo	Juniper wood oil	15149502	1
Caelo	Juniper wood oil	15149511	1
Caelo	Turpentine oil	15185101	6
Caelo	Turpentine oil	15185106	4
Caelo	Turpentine oil	15185110	3
Caelo	Juniper wood oil	16055401	1
Caelo	Juniper wood oil	16055408	1
Caelo	Cypress oil	16130501	1
Caelo	Cypress oil	16130505	12
Caelo	Turpentine oil	161990709	1
Caelo	Turpentine oil	16199172	1
Caelo	Turpentine oil	16199701	7
Caelo	Turpentine oil	16199705	7
Caelo	Turpentine oil	16199709	1
Caelo	Turpentine oil	16199712	6
Caelo	Cypress oil	17017101	1
Caelo	Turpentine oil	17150902	3
Caelo	Juniper wood oil	17196401	1
Caelo	Juniper wood oil	17196402	1
Caelo	Turpentine oil	18047301	3
Caelo	Turpentine oil	18110801	10
Caelo	Juniper wood oil	19039902	1
Caelo	Turpentine oil	19061310	1
Caelo	Turpentine oil	19129905	5
Caelo	Turpentine oil	192206007	3
Caelo	Turpentine oil	192206011	6
Caelo	Juniper wood oil	20000565002	1
Caelo	Turpentine oil	20004333004	1
Caelo	Turpentine oil	210809(20004333002)	1
Caelo	Turpentine oil	211029(20004333002)	1
Caelo	Turpentine oil	220110(20004333004)	1
Caelo	Turpentine oil	220628(20004333004)	1
Caelo	Turpentine oil	23(16199709)	1
Caelo	Turpentine oil	24(18110801)	1
Caelo	Turpentine oil	24544454	1
Caelo	Turpentine oil	29(192206011)	1
Caelo	Turpentine oil	30(192206011)	1
Caelo	Turpentine oil	412M-02022	1
Caesar & Loretz GmbH/No…	Turpentine oil	18110801	1
Caesar & Loretz GmbH	Turpentine oil	18110801	4
Caesar & Loretz GmbH	Turpentine oil	192206011	1
Euro OTC	Turpentine oil	1210016-01	4
Euro OTC	Turpentine oil	1407037-01	1
Euro OTC	Turpentine oil	1503007-01	2
Euro OTC	Turpentine oil	1511012-01	1
Euro OTC	Turpentine oil	1703005-01	1
Euro OTC	Turpentine oil	1806017-01	2
Euro OTC	Turpentine oil	711Q-03557	2
Euro OTC	Turpentine oil	981772	3
Fiebig	Turpentine oil	15185101	1
Fiebig	Turpentine oil	18110801	1
Frtz Schiele Bäder-Fabr…	Turpentine oil	52350	1
Gehe	Turpentine oil	14012601	1
Gehe	Turpentine oil	15185101	1
Gehe	Turpentine oil	16199705	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Hänseler	Turpentine oil		2
JENNE	Cypress oil	17017101	1
Kögl	Turpentine oil	1700151	1
Phoenix Göttingen 07.01...	Turpentine oil	18047301	1
Phönix	Turpentine oil	13378804	1
Sanacorp WE:12.01.2017 ...	Turpentine oil	16199701	1
Sanacorp	Turpentine oil	12383210	1
Sanacorp	Turpentine oil	13106701	1
Sanacorp	Turpentine oil	16199712	2
Schiele/Phönix	Turpentine oil		1
Schiele	Turpentine oil	55379	1
Taoasis GmbH	Juniper wood oil	604898-109389	1
Taoasis GmbH	Juniper wood oil	736525-110967	1

- 297 262 spectra from 1324 *Apo-Ident* customers from a total of 52 914 batches from a further 341 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Wood oils* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Wood oils* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	540	0	67 959
Type B	0	410	0	110 903
Type C	0	192	4	297 262

The substance/substance group *Wood oils* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 98.8889 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 98.5366 %)
Type C	100.0000 % (> 99.6875 %)	97.9592 % (> 96.4286 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.

Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Wood oils* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Myrtle oil	19.45	–
Eucalyptus oil	22.00	–
Pine silvestris oil	22.29	–
Cajeput (essentiel oil)	25.00	–
Rosemary oil	26.73	–
Cineole	32.05	–
Dwarf pine oil	35.51	–
Caraway oil	40.58	–
Spearmint oil	41.64	–
Spruce needle oil	44.04	–
Verbena oil, nature-identical	46.05	–
Citric oil	46.66	–
Juniper oil	47.36	–
Sage oil	47.94	–
Petroleum ether DAB	48.62	–
Peppermint oil	49.38	–
Cedar wood oil	54.85	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Wood oils* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30710	31201	3.44	36.43
30860	31201	5.10	36.84
31201	31201	0.00	36.00
31214	31214	0.00	32.17
31531	31214	2.65	33.49
31815	31815	0.00	28.95
31837	31837	0.00	26.87
32183	32183	0.00	27.51
32317	32317	0.00	30.54
33232	33232	0.00	32.93
33310	33310	0.00	33.53
34644	34644	0.00	34.18

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Wool alcohols creams**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`34567-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Wool alcohols creams; Eucerin® cum Aqua; Lanae alcoholum unguentum aquosum DAB; Unguentum Alcoholum Lanae aquosum SR; Wool alcohol cream DAB; Wool alcohol cream SR

Special notes

When selecting the *Wool alcohols creams* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Wool alcohols creams	40	133	163

Second-stage model

For differentiation of the substance/substance group *Wool alcohols creams* the following second-stage model is used:

- Submodel 06

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Wool alcohols creams*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Eucerin® cum Aqua	191776	34778	40	20190711*
Caelo	Eucerin® cum Aqua	13369401	34877	40	20131111
Caelo	Eucerin® cum Aqua	13369401	34878	40	1406055
Caelo	Eucerin® cum Aqua	14126801	34879	40	20140415
Caelo	Eucerin® cum Aqua	153608	34880	60	20151029*
Caelo	Eucerin® cum Aqua	153608	34881	60	20151029*
Caelo	Eucerin® cum Aqua	153608	34882	60	20151029*
Caelo	Eucerin® cum Aqua	153609	34883	60	20151103*
Caelo	Eucerin® cum Aqua	153611	34885	60	20151106*
Caelo	Eucerin® cum Aqua	153613	34887	60	20151106*
Caelo	Eucerin® cum Aqua	153615	34889	60	20151029*
Caelo	Eucerin® cum Aqua	153615	34890	60	20151029*
Caelo	Eucerin® cum Aqua	153616	34891	60	20151029*
Caelo	Eucerin® cum Aqua	153616	34892	60	20151029*
Caelo	Eucerin® cum Aqua	153617	34893	60	20151103*
Caelo	Eucerin® cum Aqua	153617	34894	60	20151103*
Caelo	Eucerin® cum Aqua	160901	34898	40	20160414*
Caelo	Eucerin® cum Aqua	161994	34922	40	20160928*
Caelo	Eucerin® cum Aqua	161994	34923	40	20160928*
Caelo	Eucerin® cum Aqua	161994	34924	40	20160928*
Caelo	Eucerin® cum Aqua	163129	34926	40	20161111*
Caelo	Eucerin® cum Aqua	170394	34935	40	20170214*
Caelo	Eucerin® cum Aqua	170395	34936	40	20170209*
Caelo	Eucerin® cum Aqua	170398	34937	40	20170221*
Caelo	Eucerin® cum Aqua	170396	34940	40	20170214*
Caelo	Eucerin® cum Aqua	170401	34947	40	20170217*
Caelo	Eucerin® cum Aqua	170397	34948	40	20170214*
Caelo	Eucerin® cum Aqua	172848	34961	40	20171023*
Caelo	Eucerin® cum Aqua	20003755	35421	40	20210113*
Caelo	Eucerin® cum Aqua	21002261	35632	50	20210802*
Bombastus	Wool alcohol cre...	284945	34567	40	1406054
Bombastus	Wool alcohol cre...	18006845	34578	40	130371
Caelo	Wool alcohol cre...	13394101	34568	30	1509376
Caelo	Wool alcohol cre...	161776	34569	40	20160615*
Caelo	Wool alcohol cre...	191472	34795	40	20190605*
Caelo	Wool alcohol cre...	192261	34796	40	20190905*
Caelo	Wool alcohol cre...	192673	34797	40	20191030*
Caelo	Wool alcohol cre...	21001567	35612	50	20210617*
Caelo	Wool alcohol cre...	21003700	35947	40	20211203*
apomix	Wool alcohol cre...	07A210519	34593	40	20190521
Bombastus	Wool alcohol cre...	19000025	34591	40	130668
Bombastus	Wool alcohol cre...	18004726	34592	40	127526
Caelo	Wool alcohol cre...	13272603	34585	70	20130829
Caelo	Wool alcohol cre...	14031601	34586	40	1512182
Caelo	Wool alcohol cre...	160143	34587	40	20160121*
Caelo	Wool alcohol cre...	161208	34588	40	20160503*
Caelo	Wool alcohol cre...	20002190	35094	40	20200728*
Caelo	Wool alcohol cre...	21001786	35611	50	20210617*

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 2210 spectra of 48 reference samples from the substance/substance group *Wool alcohols creams*. These samples are listed above in the *calibration samples* section. The reference samples come from 40 different batches.

- 66 289 spectra from a total of 1373 batches from further 226 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 5320 spectra of 142 reference samples from the substance/substance group *Wool alcohols creams*.

- Among them are spectra of independent samples from 133 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Eucerin® cum Aqua	192122	34779	40
Caelo	Eucerin® cum Aqua	12205402	34876	40
Caelo	Eucerin® cum Aqua	153610	34884	60
Caelo	Eucerin® cum Aqua	153612	34886	60
Caelo	Eucerin® cum Aqua	153614	34888	60
Caelo	Eucerin® cum Aqua	160078	34895	40
Caelo	Eucerin® cum Aqua	160899	34896	40
Caelo	Eucerin® cum Aqua	160900	34897	40
Caelo	Eucerin® cum Aqua	160902	34899	40
Caelo	Eucerin® cum Aqua	160903	34900	40
Caelo	Eucerin® cum Aqua	160904	34901	40
Caelo	Eucerin® cum Aqua	160905	34902	40
Caelo	Eucerin® cum Aqua	160906	34903	40
Caelo	Eucerin® cum Aqua	160907	34904	40
Caelo	Eucerin® cum Aqua	161122	34905	40
Caelo	Eucerin® cum Aqua	161578	34906	40

continued on the next page

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Eucerin® cum Aqua	161577	34908	40
Caelo	Eucerin® cum Aqua	161579	34909	40
Caelo	Eucerin® cum Aqua	161580	34910	40
Caelo	Eucerin® cum Aqua	161581	34912	40
Caelo	Eucerin® cum Aqua	161992	34916	40
Caelo	Eucerin® cum Aqua	161993	34919	40
Caelo	Eucerin® cum Aqua	161989	34925	40
Caelo	Eucerin® cum Aqua	163131	34927	40
Caelo	Eucerin® cum Aqua	162779	34928	40
Caelo	Eucerin® cum Aqua	162782	34929	40
Caelo	Eucerin® cum Aqua	162783	34930	40
Caelo	Eucerin® cum Aqua	162781	34931	40
Caelo	Eucerin® cum Aqua	162823	34932	40
Caelo	Eucerin® cum Aqua	163130	34933	40
Caelo	Eucerin® cum Aqua	170392	34934	40
Caelo	Eucerin® cum Aqua	170399	34938	40
Caelo	Eucerin® cum Aqua	170400	34939	40
Caelo	Eucerin® cum Aqua	163407	34941	40
Caelo	Eucerin® cum Aqua	163409	34942	40
Caelo	Eucerin® cum Aqua	163410	34943	40
Caelo	Eucerin® cum Aqua	171028	34944	40
Caelo	Eucerin® cum Aqua	171027	34945	40
Caelo	Eucerin® cum Aqua	171026	34946	40
Caelo	Eucerin® cum Aqua	171487	34949	40
Caelo	Eucerin® cum Aqua	171490	34950	40
Caelo	Eucerin® cum Aqua	171492	34951	40
Caelo	Eucerin® cum Aqua	171876	34952	40
Caelo	Eucerin® cum Aqua	171877	34953	40
Caelo	Eucerin® cum Aqua	171878	34954	40
Caelo	Eucerin® cum Aqua	171879	34955	40
Caelo	Eucerin® cum Aqua	171880	34956	40
Caelo	Eucerin® cum Aqua	172844	34957	40
Caelo	Eucerin® cum Aqua	172845	34958	40
Caelo	Eucerin® cum Aqua	172846	34959	40
Caelo	Eucerin® cum Aqua	172847	34960	40
Caelo	Eucerin® cum Aqua	20001463	34968	40
Caelo	Eucerin® cum Aqua	20001065	34969	40
Caelo	Eucerin® cum Aqua	20003021	35166	40
Caelo	Eucerin® cum Aqua	21000611	35408	40
Caelo	Eucerin® cum Aqua	21000612	35409	40
Caelo	Eucerin® cum Aqua	21000613	35410	40
Caelo	Eucerin® cum Aqua	21000614	35411	40
Caelo	Eucerin® cum Aqua	21000615	35412	40
Caelo	Eucerin® cum Aqua	21000616	35413	40
Caelo	Eucerin® cum Aqua	21000617	35414	40
Caelo	Eucerin® cum Aqua	21000618	35415	40
Caelo	Eucerin® cum Aqua	21000619	35416	40
Caelo	Eucerin® cum Aqua	21000620	35417	40
Caelo	Eucerin® cum Aqua	20003751	35418	40
Caelo	Eucerin® cum Aqua	20003752	35419	40
Caelo	Eucerin® cum Aqua	20003754	35420	40
Caelo	Eucerin® cum Aqua	20003756	35422	40
Caelo	Eucerin® cum Aqua	21001566	35509	50
Caelo	Eucerin® cum Aqua	21001565	35510	50
Caelo	Eucerin® cum Aqua	21002262	35633	50
Caelo	Eucerin® cum Aqua	21002263	35634	50
Caelo	Eucerin® cum Aqua	21002264	35635	50
Caelo	Eucerin® cum Aqua	21002265	35636	50
Caelo	Eucerin® cum Aqua	21003009	35794	50
Caelo	Eucerin® cum Aqua	21003010	35795	50

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Eucerin® cum Aqua	21003011	35796	50
Caelo	Eucerin® cum Aqua	22000004	35938	40
Caelo	Eucerin® cum Aqua	22000133	35939	40
Caelo	Eucerin® cum Aqua	22000246	36088	40
Caelo	Eucerin® cum Aqua	22000250	36089	10
Caelo	Eucerin® cum Aqua	22000252	36090	40
Caelo	Eucerin® cum Aqua	22000255	36091	10
Caelo	Eucerin® cum Aqua	22000256	36092	10
Caelo	Eucerin® cum Aqua	22000257	36093	10
Caelo	Eucerin® cum Aqua	22001404	36317	10
Caelo	Eucerin® cum Aqua	22001405	36318	10
Caelo	Eucerin® cum Aqua	22001406	36319	10
Caelo	Eucerin® cum Aqua	22001407	36320	10
Caelo	Eucerin® cum Aqua	22001408	36321	10
Caelo	Eucerin® cum Aqua	22001620	36495	40
Caelo	Eucerin® cum Aqua	22001754	36496	10
Caelo	Eucerin® cum Aqua	22001974	36497	10
Caelo	Eucerin® cum Aqua	22001975	36498	10
Caelo	Eucerin® cum Aqua	22001976	36499	10
Caelo	Eucerin® cum Aqua	22001977	36500	10
Caelo	Eucerin® cum Aqua	22001978	36501	10
Bombastus	Wool alcohol cream DAB	22000273	36186	40
Caelo	Wool alcohol cream DAB	12036401	34566	40
Caelo	Wool alcohol cream DAB	161774	34570	40
Caelo	Wool alcohol cream DAB	161778	34571	40
Caelo	Wool alcohol cream DAB	163441	34572	40
Caelo	Wool alcohol cream DAB	170941	34573	40
Caelo	Wool alcohol cream DAB	171783	34574	40
Caelo	Wool alcohol cream DAB	171782	34575	40
Caelo	Wool alcohol cream DAB	180234	34576	40
Caelo	Wool alcohol cream DAB	180863	34577	40
Caelo	Wool alcohol cream DAB	190110	34579	40
Caelo	Wool alcohol cream DAB	20001083	34849	40
Caelo	Wool alcohol cream DAB	21000023	35325	40
Caelo	Wool alcohol cream DAB	21001024	35326	40
Caelo	Wool alcohol cream DAB	21002905	35860	50
Caelo	Wool alcohol cream DAB	21002510	35861	50
Caelo	Wool alcohol cream DAB	21002511	35862	50
Caelo	Wool alcohol cream DAB	21003699	35946	40
Caelo	Wool alcohol cream DAB	22000368	36250	40
Caelo	Wool alcohol cream DAB	22000369	36251	10
Caelo	Wool alcohol cream DAB	22001636	36429	40
Caelo	Wool alcohol cream DAB	22001638	36430	10
apomix	Wool alcohol cream SR	06A210519	34594	40
apomix	Wool alcohol cream SR	09A260422	36240	40
Bombastus	Wool alcohol cream SR	22000997	36185	40
Caelo	Wool alcohol cream SR	162490	34589	40
Caelo	Wool alcohol cream SR	172287	34590	40
Caelo	Wool alcohol cream SR	191774	34794	40
Caelo	Wool alcohol cream SR	19000612	34983	40
Caelo	Wool alcohol cream SR	20003437	35156	40
Caelo	Wool alcohol cream SR	21000336	35327	40
Caelo	Wool alcohol cream SR	21001225	35328	40
Caelo	Wool alcohol cream SR	21002891	35933	40
Caelo	Wool alcohol cream SR	22000936	36399	40
Caelo	Wool alcohol cream SR	22000937	36400	10
Caelo	Wool alcohol cream SR	22002129	36401	40
Caelo	Eucerin® cum Aqua	161578	34907	40
Caelo	Eucerin® cum Aqua	161580	34911	40
Caelo	Eucerin® cum Aqua	161577	34913	40

continued on the next page

continued from previous page

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Eucerin® cum Aqua	161578	34914	40
Caelo	Eucerin® cum Aqua	161579	34915	40
Caelo	Eucerin® cum Aqua	161992	34917	40
Caelo	Eucerin® cum Aqua	161992	34918	40
Caelo	Eucerin® cum Aqua	161993	34920	40
Caelo	Eucerin® cum Aqua	161993	34921	40

- 105 993 spectra from a total of 2534 batches from further 348 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 1017 spectra from 276 *Apo-Ident* customers from 163 batches from the substance/substance group *Wool alcohols creams*.

- Among them are spectra of independent samples from 163 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
AEP	Eucerin® cum Aqua	20003752001	1
Bombastus	Eucerin® cum Aqua	19005760	1
Caelo	Eucerin® cum Aqua	1000611001	1
Caelo	Eucerin® cum Aqua	1098277	2
Caelo	Eucerin® cum Aqua	1177901	1
Caelo	Eucerin® cum Aqua	18104101	1
Caelo	Eucerin® cum Aqua	18115401	1
Caelo	Eucerin® cum Aqua	18262403	1
Caelo	Eucerin® cum Aqua	18262501	1
Caelo	Eucerin® cum Aqua	18331901	1
Caelo	Eucerin® cum Aqua	190000767001	1
Caelo	Eucerin® cum Aqua	19000401	3
Caelo	Eucerin® cum Aqua	19000677001	1
Caelo	Eucerin® cum Aqua	1900071001	1
Caelo	Eucerin® cum Aqua	19000767001	25
Caelo	Eucerin® cum Aqua	19000768001	16
Caelo	Eucerin® cum Aqua	19000768002	13
Caelo	Eucerin® cum Aqua	19000769001	11
Caelo	Eucerin® cum Aqua	190007690012	1
Caelo	Eucerin® cum Aqua	19000771001	8
Caelo	Eucerin® cum Aqua	19000772001	10
Caelo	Eucerin® cum Aqua	19000773002	5
Caelo	Eucerin® cum Aqua	1900768001	1
Caelo	Eucerin® cum Aqua	19040601	4
Caelo	Eucerin® cum Aqua	19040602	5
Caelo	Eucerin® cum Aqua	1904061	1
Caelo	Eucerin® cum Aqua	19040701	4
Caelo	Eucerin® cum Aqua	19040801	1
Caelo	Eucerin® cum Aqua	19057902	4
Caelo	Eucerin® cum Aqua	19115201	2
Caelo	Eucerin® cum Aqua	19115301	10
Caelo	Eucerin® cum Aqua	19115401	19

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Eucerin® cum Aqua	19115402	12
Caelo	Eucerin® cum Aqua	19115501	4
Caelo	Eucerin® cum Aqua	19115601	11
Caelo	Eucerin® cum Aqua	19115701	5
Caelo	Eucerin® cum Aqua	19118802	1
Caelo	Eucerin® cum Aqua	1915501	1
Caelo	Eucerin® cum Aqua	1917701	1
Caelo	Eucerin® cum Aqua	19177601	19
Caelo	Eucerin® cum Aqua	19177603	2
Caelo	Eucerin® cum Aqua	19177604	2
Caelo	Eucerin® cum Aqua	19177701	27
Caelo	Eucerin® cum Aqua	19177801	5
Caelo	Eucerin® cum Aqua	19177802	3
Caelo	Eucerin® cum Aqua	19177901	9
Caelo	Eucerin® cum Aqua	19178001	8
Caelo	Eucerin® cum Aqua	1921101	1
Caelo	Eucerin® cum Aqua	19212101	25
Caelo	Eucerin® cum Aqua	19212201	14
Caelo	Eucerin® cum Aqua	19212301	1
Caelo	Eucerin® cum Aqua	19212302	6
Caelo	Eucerin® cum Aqua	19226301	6
Caelo	Eucerin® cum Aqua	19259502	1
Caelo	Eucerin® cum Aqua	19259503	23
Caelo	Eucerin® cum Aqua	19259601	37
Caelo	Eucerin® cum Aqua	19267303	1
Caelo	Eucerin® cum Aqua	19267401	2
Caelo	Eucerin® cum Aqua	19268601	15
Caelo	Eucerin® cum Aqua	19279801	16
Caelo	Eucerin® cum Aqua	19279802	5
Caelo	Eucerin® cum Aqua	200001065001	1
Caelo	Eucerin® cum Aqua	200001066001	2
Caelo	Eucerin® cum Aqua	200001070003	1
Caelo	Eucerin® cum Aqua	200001463001	1
Caelo	Eucerin® cum Aqua	200002056002	1
Caelo	Eucerin® cum Aqua	200003019001	2
Caelo	Eucerin® cum Aqua	2000100003	1
Caelo	Eucerin® cum Aqua	20001065001	19
Caelo	Eucerin® cum Aqua	20001065001/4320	1
Caelo	Eucerin® cum Aqua	20001065002	1
Caelo	Eucerin® cum Aqua	20001066001	28
Caelo	Eucerin® cum Aqua	20001067001	27
Caelo	Eucerin® cum Aqua	20001068001	8
Caelo	Eucerin® cum Aqua	20001069001	12
Caelo	Eucerin® cum Aqua	20001070002	1
Caelo	Eucerin® cum Aqua	20001070003	3
Caelo	Eucerin® cum Aqua	20001098001	1
Caelo	Eucerin® cum Aqua	20001460001	1
Caelo	Eucerin® cum Aqua	20001460002	18
Caelo	Eucerin® cum Aqua	20001460002/4320	1
Caelo	Eucerin® cum Aqua	2000146001	2
Caelo	Eucerin® cum Aqua	20001461001	9
Caelo	Eucerin® cum Aqua	20001462001	11
Caelo	Eucerin® cum Aqua	20001463001	7
Caelo	Eucerin® cum Aqua	20001464001	6
Caelo	Eucerin® cum Aqua	200014644001	1
Caelo	Eucerin® cum Aqua	20001465001	7
Caelo	Eucerin® cum Aqua	20001466001	25
Caelo	Eucerin® cum Aqua	20001467001	32
Caelo	Eucerin® cum Aqua	2000166001	1
Caelo	Eucerin® cum Aqua	20002056002	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Eucerin® cum Aqua	20002058001	4
Caelo	Eucerin® cum Aqua	20003019001	18
Caelo	Eucerin® cum Aqua	20003020003	5
Caelo	Eucerin® cum Aqua	20003021002	2
Caelo	Eucerin® cum Aqua	20003021003	7
Caelo	Eucerin® cum Aqua	20003022001	2
Caelo	Eucerin® cum Aqua	20003022002	8
Caelo	Eucerin® cum Aqua	20003022003	3
Caelo	Eucerin® cum Aqua	2000375001	1
Caelo	Eucerin® cum Aqua	20003751002	1
Caelo	Eucerin® cum Aqua	20003751003	7
Caelo	Eucerin® cum Aqua	20003752001	15
Caelo	Eucerin® cum Aqua	20003754001	6
Caelo	Eucerin® cum Aqua	20003755001	29
Caelo	Eucerin® cum Aqua	2000375560001	1
Caelo	Eucerin® cum Aqua	20003756001	6
Caelo	Eucerin® cum Aqua	20003756002	11
Caelo	Eucerin® cum Aqua	20003756004	3
Caelo	Eucerin® cum Aqua	2001070003	2
Caelo	Eucerin® cum Aqua	2001463001	1
Caelo	Eucerin® cum Aqua	2003755001	1
Caelo	Eucerin® cum Aqua	21000023003	1
Caelo	Eucerin® cum Aqua	210000611001	1
Caelo	Eucerin® cum Aqua	21000311001	1
Caelo	Eucerin® cum Aqua	2100061001	2
Caelo	Eucerin® cum Aqua	21000611001	22
Caelo	Eucerin® cum Aqua	21000612001	12
Caelo	Eucerin® cum Aqua	21000613002	8
Caelo	Eucerin® cum Aqua	21000614001	2
Caelo	Eucerin® cum Aqua	21000614002	2
Caelo	Eucerin® cum Aqua	21000615001	3
Caelo	Eucerin® cum Aqua	21000616001	13
Caelo	Eucerin® cum Aqua	21000616002	2
Caelo	Eucerin® cum Aqua	21000617001	4
Caelo	Eucerin® cum Aqua	21000618001	5
Caelo	Eucerin® cum Aqua	2100061900	1
Caelo	Eucerin® cum Aqua	21000619001	2
Caelo	Eucerin® cum Aqua	21000620001	5
Caelo	Eucerin® cum Aqua	21001565001	1
Caelo	Eucerin® cum Aqua	21001565002	6
Caelo	Eucerin® cum Aqua	21001566001	2
Caelo	Eucerin® cum Aqua	21001566002	1
Caelo	Eucerin® cum Aqua	21002261001	6
Caelo	Eucerin® cum Aqua	21002262001	2
Caelo	Eucerin® cum Aqua	21002263001	7
Caelo	Eucerin® cum Aqua	21002264002	1
Caelo	Eucerin® cum Aqua	21002265001	9
Caelo	Eucerin® cum Aqua	21002265002	6
Caelo	Eucerin® cum Aqua	21002265003	4
Caelo	Eucerin® cum Aqua	21002511001	1
Caelo	Eucerin® cum Aqua	21003009001	4
Caelo	Eucerin® cum Aqua	21003010001	2
Caelo	Eucerin® cum Aqua	21003010002	3
Caelo	Eucerin® cum Aqua	21003011001	1
Caelo	Eucerin® cum Aqua	2100611001	1
Caelo	Eucerin® cum Aqua	2100612001	1
Caelo	Eucerin® cum Aqua	211130(21002265001)	1
Caelo	Eucerin® cum Aqua	22000004001	1
Caelo	Eucerin® cum Aqua	22000246003	3
Caelo	Eucerin® cum Aqua	22000250001	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Eucerin® cum Aqua	22000252001	2
Caelo	Eucerin® cum Aqua	220110(21002263001)	1
Caelo	Eucerin® cum Aqua	23(20003755001)	1
Caelo	Eucerin® cum Aqua	3426	1
Caelo	Eucerin® cum Aqua	3450	1
Caesar & Loretz GmbH / ...	Eucerin® cum Aqua	19177601	1
Caesar & Loretz GmbH/AEP	Eucerin® cum Aqua	19000771001	1
Caesar & Loretz GmbH/AEP	Eucerin® cum Aqua	19000772001	1
Caesar & Loretz GmbH/AEP	Eucerin® cum Aqua	19115601	1
Caesar & Loretz GmbH/AEP	Eucerin® cum Aqua	19178101	4
Caesar & Loretz GmbH/All	Eucerin® cum Aqua	20001465001	1
Caesar & Loretz GmbH/Al...	Eucerin® cum Aqua	19212301	1
Caesar & Loretz GmbH/Al...	Eucerin® cum Aqua	22000250001	1
Caesar & Loretz GmbH/Kr...	Eucerin® cum Aqua	19177802	2
Caesar & Loretz GmbH/No...	Eucerin® cum Aqua	20001065002	1
Caesar & Loretz GmbH/No...	Eucerin® cum Aqua	21001565002	1
Caesar & Loretz GmbH/Ph...	Eucerin® cum Aqua	20001460001	1
Caesar & Loretz GmbH/Sa...	Eucerin® cum Aqua	19259503	2
Caesar & Loretz GmbH/Sa...	Eucerin® cum Aqua	20001065001	1
Caesar & Loretz GmbH	Eucerin® cum Aqua	19000768001	1
Caesar & Loretz GmbH	Eucerin® cum Aqua	19000768002	2
Caesar & Loretz GmbH	Eucerin® cum Aqua	19057902	1
Caesar & Loretz GmbH	Eucerin® cum Aqua	19115301	1
Caesar & Loretz GmbH	Eucerin® cum Aqua	19115501	1
Caesar & Loretz GmbH	Eucerin® cum Aqua	19115601	2
Caesar & Loretz GmbH	Eucerin® cum Aqua	19177701	1
Caesar & Loretz GmbH	Eucerin® cum Aqua	19212101	1
Caesar & Loretz GmbH	Eucerin® cum Aqua	20001462001	1
Caesar & Loretz GmbH	Eucerin® cum Aqua	20003752001	1
Caesar & Loretz GmbH	Eucerin® cum Aqua	20003755001	2
Caesar & Loretz GmbH	Eucerin® cum Aqua	21000616001	1
Caesar&Lorenz	Eucerin® cum Aqua	21000613002	1
Caleo	Eucerin® cum Aqua	19478101	1
Cealo/11	Eucerin® cum Aqua	19177802	1
Cealo/Gehe	Eucerin® cum Aqua	200001067001	1
Cealo/Jenne	Eucerin® cum Aqua	220830(22000246003)	1
Cealo	Eucerin® cum Aqua	19115501	1
Gehe 18.11.21, 17,51EUR	Eucerin® cum Aqua	211125	1
Gehe	Eucerin® cum Aqua	19000767001	1
Gehe	Eucerin® cum Aqua	19040601	1
Gehe	Eucerin® cum Aqua	21000612001	2
Gehe	Eucerin® cum Aqua	21001565022	1
Jenne	Eucerin® cum Aqua	20001066001	1
Noweda	Eucerin® cum Aqua	19115301	1
Noweda	Eucerin® cum Aqua	19177701	1
Noweda	Eucerin® cum Aqua	19212101	2
Noweda	Eucerin® cum Aqua	19226301	1
Noweda	Eucerin® cum Aqua	19259601	2
Noweda	Eucerin® cum Aqua	20001067001	3
Noweda	Eucerin® cum Aqua	20001466001	5
Noweda	Eucerin® cum Aqua	21000620001	1
Phoenix	Eucerin® cum Aqua	200061601	1
Phönix Gotha	Eucerin® cum Aqua	19000771001	1
Phönix Gotha	Eucerin® cum Aqua	19177901	1
Phönix	Eucerin® cum Aqua	19178001	1
Phönix	Eucerin® cum Aqua	20001467001	2
Sanacorp	Eucerin® cum Aqua	19000401	1
Sanacorp	Eucerin® cum Aqua	19115301	1

- 296 441 spectra from 1324 *Apo-Ident* customers from a total of 52 875 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Wool alcohols creams* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Wool alcohols creams* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	2210	0	66 289
Type B	0	5320	0	105 993
Type C	0	1007	10	288 585

The substance/substance group *Wool alcohols creams* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9808 %)	100.0000 % (> 99.7285 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 99.8872 %)
Type C	100.0000 % (> 99.6863 %)	99.0167 % (> 98.7217 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Wool alcohols creams* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Base cream DAC	17.16	26.51
Psorisol base cream Audor®	33.08	–
Lanette® ointment (conserved)	36.63	17.61
Non-ionic hydrophil ointment	38.73	9.63
⋮	⋮	⋮
2-ethylhexyl laurate	>50	149.79
Squalane	>50	190.76

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the sub-

 © HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

stance/substance group *Wool alcohols creams* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
34567	34567	0.00	23.29
34568	34568	0.00	32.14
34569	34569	0.00	29.26
34578	34883	3.71	28.86
34585	34890	5.88	24.94
34586	34586	0.00	27.83
34587	34587	0.00	22.96
34588	34588	0.00	22.27
34591	34883	5.83	23.31
34592	34883	5.07	26.91
34593	34586	8.07	24.36
34778	34778	0.00	20.66
34795	34795	0.00	25.17
34796	34796	0.00	24.80
34797	34797	0.00	25.51
34877	34878	1.69	27.63
34878	34878	0.00	26.52
34879	34883	2.11	33.40
34880	34880	0.00	28.77
34881	34881	0.00	28.97
34882	34882	0.00	29.97
34883	34883	0.00	30.72
34885	34885	0.00	29.35
34887	34887	0.00	22.06
34889	34889	0.00	24.83
34890	34890	0.00	26.52
34891	34891	0.00	25.79
34892	34892	0.00	24.30
34893	34893	0.00	24.97
34894	34894	0.00	22.25
34898	34898	0.00	32.09
34922	34922	0.00	25.92
34923	34923	0.00	26.57
34924	34924	0.00	24.87
34926	34926	0.00	22.39
34935	34935	0.00	26.87
34936	34936	0.00	28.10
34937	34937	0.00	27.07
34940	34940	0.00	26.60
34947	34947	0.00	31.03
34948	34948	0.00	27.15
34961	34961	0.00	29.26
35094	35094	0.00	17.78

continued on the next page

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
35421	35421	0.00	25.63
35611	35611	0.00	24.09
35612	35612	0.00	27.11
35632	35632	0.00	30.18
35947	35947	0.00	28.97

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**Wormwood oil**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30846-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

Wormwood oil

Special notes

When selecting the *Wormwood oil* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
Wormwood oil	5	2	4

Second-stage model

For differentiation of the substance/substance group *Wormwood oil* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *Wormwood oil*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Caelo	Wormwood oil	11346603	30846	40	20111208
Caelo	Wormwood oil	13347703	31198	40	1403146
Caelo	Wormwood oil	13347704	31423	60	20131028
Caelo	Wormwood oil	13347704	31424	60	20131028
Caelo	Wormwood oil	182940	34451	40	20181108*
Caelo	Wormwood oil	22001909001	36478	40	20220615

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 280 spectra of 6 reference samples from the substance/substance group *Wormwood oil*. These samples are listed above in the *calibration samples* section. The reference samples come from 5 different batches.

- 68 219 spectra from a total of 1408 batches from further 228 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 80 spectra of 2 reference samples from the substance/substance group *Wormwood oil*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Caelo	Wormwood oil	15316909	33508	40
Caelo	Wormwood oil	170389	33904	40

- 111 233 spectra from a total of 2664 batches from further 350 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 7 spectra from 4 *Apo-Ident* customers from 4 batches from the substance/substance group *Wormwood oil*.
- Among them are spectra of independent samples from 4 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
Caelo	Wormwood oil	12197809	1
Caelo	Wormwood oil	17038903	1
Caelo	Wormwood oil	2017115182	2
Voegele	Wormwood oil	2013109402	3

- 297 451 spectra from 1324 *Apo-Ident* customers from a total of 52 983 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *Wormwood oil* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose, all relevant spectra of the various substances were compared with *Wormwood oil* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type ($A/B/C$).

	False positive	True positive	False negative	True negative
Type A	0	280	0	68 219
Type B	0	80	0	111 233
Type C	0	7	0	297 451

The substance/substance group *Wormwood oil* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 97.8571 %)
Type B	100.0000 % (> 99.9679 %)	100.0000 % (> 92.5000 %)
Type C	100.0000 % (> 99.6887 %)	n/a (n/a)

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *Wormwood oil* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Bitter-fennel fruit oil	61.06	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *Wormwood oil* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
30846	31198	5.06	76.86
31198	31198	0.00	76.27
31423	31198	2.20	75.35
31424	31198	1.78	75.79
34451	34451	0.00	68.20
36478	31198	5.97	78.51

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

VALIDATION REPORT

IdentModule 2.4-2022-05

Validated substance/substance group	**α-Tocopherol**
Substance class	APIs & excipients, liquid/semi-solid (with analysis certificate)
Report date	21/11/2022
Report number	`30485-2022-11-21`
Executing company	HiperScan GmbH Weißeritzstraße 3 01067 Dresden Germany

Relevant substance names

α-Tocopherol; all-rac-α-Tocopherol; int-rac-α-Tocopherolum; RRR-α-Tocopherol; RRR-α-Tocopherolum

Special notes

When selecting the *α-Tocopherol* substance/substance group, the following information is displayed to the user:

no information

Applicable documents

978-3-7692-7517-9	*European Pharmacopoeia 10th Edition, Basic Version 2020* [3]
Komm2.2.40	*Erfüllung von* Ph. Eur. 2.2.40 *durch* Apo-Ident [4]
AA004	*Erstellung und Validierung eines IdentModul-Updates*

Validation method

Validation is performed after every change to the chemometric model (also "database") in three steps:

1. The chemometric model is calculated from the calibration spectra using a *PCA algorithm*. The calibration spectra originate from the calibration samples of all substances in this class.
2. In the *chemometric model* generated, the distances between all separable substances are checked for compliance with the specified safety distances.
3. All spectra are presented to the generated chemometric model for evaluation. In three runs, the reference spectra (*Type A*), spectra from independent samples (*Type B*), and spectra from the field (*Type C*) are presented successively. Here, no single *false positive* result is permitted.

Finally, a report is generated from the validation run results and is archived together with the parameters of the model generation in audit-compliant manner.

Number of independent samples (batches) in calibration and validation

A sample is considered independent if no sample from the same batch has been included in the calibration of the chemometric model.

Substance/substance group	Type A	Type B	Type C
α-Tocopherol	6	2	66

Second-stage model

For differentiation of the substance/substance group *α-Tocopherol* the following second-stage model is used:

no second-stage model

Calibration samples

Only spectra which have been recorded by *HiperScan GmbH* from traceable samples are used for the generation of the chemometric models. The following samples have been obtained from the substance/substance group *α-Tocopherol*:

Supplier	Substance	Batch	Sample ID	Spectra	Certificate
Fagron	all-rac-α-Tocoph...	16D14-B05-324514	36332	40	20160422
Fagron	all-rac-α-Tocoph...	16H29-B08-334064	36333	40	20161027
Fagron	all-rac-α-Tocoph...	21D06-T06-088532	36336	50	2206223
Caelo	RRR-α-Tocopherol	13248808	31501	60	1507770
Caelo	RRR-α-Tocopherol	16005002	32072	60	20160203
Caelo	RRR-α-Tocopherol	21001944	35729	50	20210824*

Validation samples

A total of 477 270 spectra were provided for validation. The results were evaluated separately according to the following sample categories:

Type A All calibration spectra.

- 300 spectra of 6 reference samples from the substance/substance group *α-Tocopherol*. These samples are listed above in the *calibration samples* section. The reference samples come from 6 different batches.

- 68 199 spectra from a total of 1407 batches from further 227 substances. These spectra were recorded by *HiperScan GmbH*. *Type A* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type A* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix A*. The samples in *Appendix A* were added for model generation not with the intention to have the model identify these substances, but with the intention to make the model reject them despite their similarity to substances identifiable.

Type B Spectra from independent samples not included in the database structure. Measurement is carried out by *HiperScan GmbH*.

Samples from batches of which no spectra have been included in the database structure are considered as independent samples. The number of batches from which independent samples supplied *Type B* spectra for validation is shown below, representing the number of independent *Type B* samples. Samples, of which some of the spectra have been included in the database structure and other spectra in the validation, are marked with a †. The following applies to the remaining unmarked samples: In the same batch, there was at least one additional sample (other sales container, other sample ID) from which reference spectra (*Type A*) were included in the database structure.

- 130 spectra of 3 reference samples from the substance/substance group *α-Tocopherol*.

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

- Among them are spectra of independent samples from 2 batches from which no spectra have been included in the database structure. They are sorted upwards in the following table and separated from the additional samples by a line.

Supplier	Substance	Batch	Sample ID	Spectra
Fagron	all-rac-α-Tocopherol	17B14-B02-336290	36335	40
Caelo	RRR-α-Tocopherol	21001924	35728	50
Fagron	all-rac-α-Tocopherol	16H29-B08-334064	36334	40

- 111 183 spectra from a total of 2663 batches from further 349 substances. These spectra were recorded by *HiperScan GmbH*. *Type B* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type B* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix B*.

Type C Spectra of independent samples not included in the database structure. *Apo-Ident* customers carry out the measurements. *HiperScan GmbH* generally does not verify the information provided by the customer regarding manufacturer and batch number.

- 160 spectra from 97 *Apo-Ident* customers from 68 batches from the substance/substance group *α-Tocopherol*.
- Among them are spectra of independent samples from 65 batches from which no spectra have been included in the database structure. These are sorted upwards in the following table.

Supplier	Substance	Batch	Spectra
	RRR-α-Tocopherol	20000859009	1
Alte Apotheke	RRR-α-Tocopherol	16D14B05324514	1
Audor Pharma	RRR-α-Tocopherol	16D14-B05-322951	1
Caela/Phönix 05.07.18	RRR-α-Tocopherol	17057509	1
Caelo	RRR-α-Tocopherol		1
Caelo	RRR-α-Tocopherol	11313301	1
Caelo	RRR-α-Tocopherol	11313302	1
Caelo	RRR-α-Tocopherol	11313308	3
Caelo	RRR-α-Tocopherol	11313309	1
Caelo	RRR-α-Tocopherol	11313311	2
Caelo	RRR-α-Tocopherol	12106901	1
Caelo	RRR-α-Tocopherol	12106907	2
Caelo	RRR-α-Tocopherol	12106908	1
Caelo	RRR-α-Tocopherol	12106910	2
Caelo	RRR-α-Tocopherol	132488003	1
Caelo	RRR-α-Tocopherol	13248801	1
Caelo	RRR-α-Tocopherol	13248802	2
Caelo	RRR-α-Tocopherol	13248803	1
Caelo	RRR-α-Tocopherol	13248804	1
Caelo	RRR-α-Tocopherol	14159302	1
Caelo	RRR-α-Tocopherol	14159303	1
Caelo	RRR-α-Tocopherol	14159305	1
Caelo	RRR-α-Tocopherol	14353802	1
Caelo	RRR-α-Tocopherol	14353806	3
Caelo	RRR-α-Tocopherol	15102606	2
Caelo	RRR-α-Tocopherol	15102611	1
Caelo	RRR-α-Tocopherol	16005002	12
Caelo	RRR-α-Tocopherol	16187604	11
Caelo	RRR-α-Tocopherol	16187606	1
Caelo	RRR-α-Tocopherol	16187608	1
Caelo	RRR-α-Tocopherol	16H29-B08-327045	1
Caelo	RRR-α-Tocopherol	17057501	6
Caelo	RRR-α-Tocopherol	17057508	1
Caelo	RRR-α-Tocopherol	18068402	1
Caelo	RRR-α-Tocopherol	18068403	9

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	RRR-α-Tocopherol	18220801	7
Caelo	RRR-α-Tocopherol	18220805	5
Caelo	RRR-α-Tocopherol	18220810	8
Caelo	RRR-α-Tocopherol	18220813	6
Caelo	RRR-α-Tocopherol	191384002	1
Caelo	RRR-α-Tocopherol	191384003	1
Caelo	RRR-α-Tocopherol	20000859002	1
Caelo	RRR-α-Tocopherol	20000859006	5
Caelo	RRR-α-Tocopherol	20000859008	1
Caelo	RRR-α-Tocopherol	5012I-03257	1
Caelo	RRR-α-Tocopherol	712015	1
Caelo	RRR-α-Tocopherol	8705007	1
Caesar & Loretz GmbH	RRR-α-Tocopherol	18220813	2
Caesar & Loretz GmbH	RRR-α-Tocopherol	191384003	1
Caleo	RRR-α-Tocopherol	15102606	1
Euro/Phönix	RRR-α-Tocopherol	16187606	1
Fagron	RRR-α-Tocopherol	16D14-B05-324514	2
Fagron	RRR-α-Tocopherol	17B14-B02	2
Fagron	RRR-α-Tocopherol	17B14-B02336290	1
Fagron	RRR-α-Tocopherol	17J3119E20-B07-193116	1
Fagron	RRR-α-Tocopherol	17J31-B01	1
Fagron	RRR-α-Tocopherol	17J31-b01-342	1
Fagron	RRR-α-Tocopherol	17J31-B01-342312	2
Fagron	RRR-α-Tocopherol	19E20-B07-193116	2
Fagron	RRR-α-Tocopherol	20170816-03257	1
Fagron	RRR-α-Tocopherol	20A13-B09-200891	1
Fagron	RRR-α-Tocopherol	20H04-B04-201937	4
Fagron	RRR-α-Tocopherol	818A-02500	1
Fagron	RRR-α-Tocopherol	UT107060047	1
Fagron	RRR-α-Tocopherol	UT19040020	1
Frago/Gehe	RRR-α-Tocopherol	17J31-B01	1
Frago/Noweda	RRR-α-Tocopherol	17B14-B02	1
Gehe	RRR-α-Tocopherol	16187606	1
Gehe	RRR-α-Tocopherol	18220810	1
Gehe	RRR-α-Tocopherol	18220813	1
Klosterring	RRR-α-Tocopherol	18220813	1
Kögl	RRR-α-Tocopherol	16005006	1
Kögl	RRR-α-Tocopherol	17B14B02	1
Kögl	RRR-α-Tocopherol	17B14B02334704	2
Kögl	RRR-α-Tocopherol	18220801	1
Midas	RRR-α-Tocopherol	17057509	1
Noweda/Spinnrad	RRR-α-Tocopherol	619303132	1
Sanacorp	RRR-α-Tocopherol	13248801	1
Sanacorp	RRR-α-Tocopherol	17J31-B01-347339	1
Sigma-Aldrich	RRR-α-Tocopherol	19E20-B07	2
Sigma-Aldrich	RRR-α-Tocopherol	BCCB3893	1

- 297 298 spectra from 1324 *Apo-Ident* customers from a total of 52 920 batches from a further 343 substances. These spectra were recorded by *Apo-Ident* customers. *Type C* samples are documented within this entire report. If the substance can be identified with this chemometric model, the samples are listed in the *Type C* section of each substance page. If the substance cannot be identified by this model, the samples are listed in *Appendix C*.

Validation results

The validation runs checked whether the substance/substance group *α-Tocopherol* can clearly be distinguished from all other substances using NIR spectroscopy with *Apo-Ident*. For this purpose,

all relevant spectra of the various substances were compared with *α-Tocopherol* and it was evaluated how many matches (positive) and rejections (negative) were correct or incorrect. The following table breaks down the numbers of correct and incorrect results according to the expected result (*positive*/*negative*) and the validation spectrum type (*A*/*B*/*C*).

	False positive	True positive	False negative	True negative
Type A	0	300	0	68 199
Type B	0	130	0	111 183
Type C	0	159	1	297 298

The substance/substance group *α-Tocopherol* can be clearly distinguished from all other substances. In order to make these figures comparable, the weighted *true negative rate* (*specificity*) and the weighted *true positive rate* (*recognition rate*) are determined:

	Specificity	Recognition rate
Type A	100.0000 % (> 99.9809 %)	100.0000 % (> 98.0000 %)
Type B	100.0000 % (> 99.9678 %)	100.0000 % (> 95.3846 %)
Type C	100.0000 % (> 99.6875 %)	99.3750 % (> 97.5000 %)

In order to ensure that each substance is entered with the same weight irrespective of the number of spectra available, each spectrum is weighted with the reciprocal value of its number. (If several new spectra of a substance with a very distinctive spectrum are added, the values for *specificity* and *recognition rate* are safer, but are by no means idealised.)

In order to illustrate the impact of the number of spectra, a comparison is made in parentheses as to how the *specificity* or *recognition rate* would worsen if three additional incorrect results were to exist amongst the spectra (*Rule of Three* [10, 11]). The larger the number of spectra, the lower the deterioration if the three hypothetical *incorrect results* were added.
Where the number of spectra does not exceed 20, no *recognition rate* is provided.

Nearest chemometric neighbours

The following table lists the closest chemometric neighbours of the substance/substance group *α-Tocopherol* in the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*. Furthermore, their *Mahalanobis distance* is specified within the main model and, where appropriate, within the second-stage model.

Substance	Distance in main model	Distance in second-stage model
Guaiazulene 25%, water-soluble	44.25	–
Citronella oil	58.40	–

The list stops after the first substance with a *Mahalanobis distance* greater than 50. If the substance/substance group *α-Tocopherol* is separated from critical neighbours in a second-stage model, all the remaining substances in the second-stage model follow.

Identity according to identity test using NIR spectroscopy

For each substance, a certificate of the correct identity is obtained from an independent GMP-certified test laboratory. If the identity of the sample can be provided using NIR on an independently tested reference sample, in the following table the *Mahalanobis distance* to the reference sample is specified as well as the *Mahalanobis distance* to the next non-identical substance:

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
31501	31501	0.00	52.27
32072	31501	6.22	52.89

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Sample ID	Reference sample ID	Distance to reference sample	Distance to next foreign sample
35729	35729	0.00	52.45
36332	36336	9.54	65.50
36333	36336	12.22	71.25
36336	36336	0.00	68.71

The identity of a sample will be confirmed by NIR if the distance to the next foreign sample is at least 50 % greater than the distance to a reference sample whose identity has been established by laboratory testing. This criterion is always considered in the chemometric model, which contains all substances of the substance class, even if a second-stage dissolves a subgroup of similar substances, thereby increasing the distances between them. The samples confirmed by NIR support the statistical variance of the original reference substance, but cannot add new aspects or forms of the substance.

Appendix A: Additional calibration samples (*Type A*)

Substance spectra also enter the generation of the chemometric model which cannot be identified with this model. This serves the purpose that substances which the model is not supposed to recognise are safely rejected. The spectra of these samples are entered into the validation as *Type A*. They were recorded by *HiperScan GmbH*.

The samples originate from 3 batches. From these, 120 spectra were recorded. The calibration spectra of substances which can be identified with the model are listed respectively in the section *calibration samples* for the individual substances and do not appear again elsewhere in this list.

Supplier	Substance	Batch	Spectra	Certificate
Hänseler AG	Camphor ointment Ph.Helv.	2020.09.0628	40	20201014
Caelo	Coal tar solution	182919	40	20190226*
Hänseler AG	Cooling cream Ph.Helv.	2019.02.0611	40	20190320

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

Appendix B: Additional validation samples (*Type B*)

It is necessary that spectra also enter the validation which cannot be identified with this model. In this manner, it is verified that the model also rejects unknown substances. The spectra for these samples were recorded by *HiperScan GmbH*. They are allocated to the *Type B*. They also include the calibration spectra for other models.

The samples originate from 174 batches. From these 7615 spectra were recorded. The spectra recorded on independent samples of substances which can be identified with the model are listed respectively in the section *Type B* for the individual substances and do not appear again elsewhere in this list.

Supplier	Substance	Batch	Spectra	Certificate
Caelo	Acorus tincture (70%) 1:5	11355109	40	20111212
Fagron	all-rac-Phytomenadione	20A17-F04-369209	40	20200401
Caelo	Aloe vera oil	190953	40	20190412*
Hedinger	Ammonia solution 10% DAB	027138	40	20130423
Hänseler AG	Anionic hydrophilic cream Ph.Helv.	2018.09.0249	40	20181012
Hänseler AG	Anionic hydrophilic cream Ph.Helv.	2021.01.0405	40	20210302
Fagron	Apricot aroma	13D08-N08	30	1407103
Caelo	Arnica oil, fat	191060	40	20190718*
Maros	Arnica root mother tincture D1	U3606	40	20120817
Caelo	Aromatic tincture (70%) 1:5	11355009	40	20111212
Maros	Ash bark mother tincture	U3264	40	20111110
Caelo	Basil oil	11346902	40	20111208
Caelo	Basil oil	13153601	40	1404505
Caelo	Basil oil	13395803	40	20131211
Caelo	Belladonna tincture, standardised (70%) 1:10	190191	40	20190205*
apomix	Betamethasone valerate 1%	01B200912	40	20120925
Maros	Bilberry leaf mother tincture	U3749	40	20130228
Caelo	Bitter tincture (70%) 1:5	11380108	60	20120105
Maros	Bittersweet stalks mother tincture	U3320	40	20120229
Maros	Black cohosh mother tincture	U3668	40	20121220
Maros	Boldo leaf mother tincture	U3502	30	20120402
Maros	Bryony root mother tincture	U3269	40	20111207
Maros	Burnet root mother tincture	U3600	30	20120821
Caelo	Calendula oil, fat	13287203	40	1403102
Caelo	Calendula oil, fat	14063403	40	20140307
Caelo	Camphor oil 10%	13317402	40	1509155
Caelo	Camphor oil 10%	13317402	60	20131022
Gatt-Koller	Camphor spirit (ÖAB)	18.00514	40	1809577
Euro OTC	Capsaicin liquid extract 3%	1205038-02	40	1406349
Euro OTC	Capsaicin liquid extract 3%	1205038-01	40	20120601
Caelo	Carmelite water	14001202	40	20140109
Caelo	Carotene (ca. 4m IU)	12139305	40	1402564
Caelo	Cayenne pepper tincture, standardised (85%) 1:10	11102412	40	20110407
Hänseler AG	Cetylic ointment Ph.Helv.	2018.09.0016	40	20180924
Hänseler AG	Cetylic ointment Ph.Helv.	2021.05.0479	40	20210624
Caelo	Chinchona bark tincture, standardised (70%)	11275507	40	20110929
Euro OTC	Cholecalciferol concentrate (oily form)	2107025	50	20210820*

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra	Certificate
apomix	Clobatesol propionate 0,5%	01B200912	40	20120924
Ichthyol	Clobetasol 0.5% Cordes® RK	11D034	40	20111205
Maros	Common broom mother tincture	R4688	40	20100806
Maros	Common wormwood mother tincture	U2448	40	20110329
Maros	Coneflower herb, purple mother tincture	U3041	40	20111005
Hänseler AG	Cooling cream Ph.Helv.	2022.01.0539	40	20220217
Ratiopharm	Corticoid-ratiopharm 0.1% cream	L30263	40	from supplier
apomix	Dexamethasone 1% (non-ionic, hydrophilic cream SR)	04A270513	40	20130527
Caelo	Dimethyl isosorbide	15230402	60	1603485
Caelo	Dimethyl isosorbide	15427602	60	20160210
Caelo	Dimethyl isosorbide	16170904	40	20160714
Caelo	Dimethyl isosorbide	17169803	40	20170620
apomix	Epinephrine solution 0,1% SR	04A160712	40	20120727
Maros	Fennel fruit tincture 1:5	6996	40	20120614
Maros	Figwort mother tincture	U3623	40	20120917
Caelo	Food coloraunt yellow (E102; E124)	12022212	40	20120127
Caelo	Formic acid 85%	13373301	60	20131118
Caelo	Ginger oil	163186	40	20161213*
Caelo	Ginger oil	15042113	40	20150217
Maros	Gingko leaf mother tincture	U2834	40	20100806
Maros	Golden rod herb tincture 1:5	6737	30	20120227
Maros	Horehound herb mother tincture	U2929	40	20091215
Caelo	Hyoscyamus oil	162692	40	20160930*
Fagron	Iron (III) subsulfate solution	17J23-B12-342837	40	20171221
Caelo	Larch terpentine	161264	60	20160428*
Caelo	Lavender spirit	13300803	50	1403101
Caelo	Lavender spirit	13300803	60	20130917
Maros	Lovage root mother tincture	U3389	40	20120417
Caelo	Macadamia oil, refined	13012102	40	1407349
Caelo	Macadamia oil, refined	14179304	60	20140611
Caelo	Macadamia oil, refined	170556	40	20170302*
BASF	Macrogol 15 hydroxystearate	58730647G0	40	20200831
BASF	Macrogol 15 hydroxystearate	75389809T0	40	20201021
BASF	Macrogol 15 hydroxystearate	01732356P0	40	20200617
Hänseler AG	Macrogol ointment Ph.Helv.	2018.11.0534	40	20181129
Hänseler AG	Macrogol ointment Ph.Helv.	2018.01.0313	40	20180116
Maros	Matricaria flower mother tincture	U3347	40	20121121
Caelo	Matricaria flower tincture (70%) 1:5	11269917	40	20110928
Caelo	Matricaria oil, fat	12189803	40	20120713
Caelo	Matricaria oil, fat	14001103	40	20120713
apomix	Metronidazole 10% (non-ionic, hydrophilic cream SR)	07B110913	40	1403475
Maros	Mistletoe mother tincture	U2932	40	20100225
Maros	Monk's pepper fruit mother tincture D1	U3476	40	20120524

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra	Certificate
Maros	Motherwort herb mother tincture	U2785	40	20120125
Maros	Motherwort herb tincture 1:5	6997	40	20120905
Caelo	Nettle herb liquid extract	14176902	40	1501199
Maros	Nettle mother tincture	U3633	40	20121219
Caelo	Nettle root tincture (70%) 1:5	11187409	40	20110705
Caelo	Nettle tincture (70%) 1:5	11108801	40	20110412
Hänseler AG	Nonionic hydrophilic ointment Ph.Helv.	2018.05.0237	40	20180615
Hänseler AG	Nonionic hydrophilic ointment Ph.Helv.	2021.06.0486	40	20210819
Caelo	Orange flower oil, artificial	13067705	40	20130304
Caelo	Orange flower oil, artificial	13067707	40	1404598
Caelo	Orange flower water	12238104	40	20120816
Staufen-Pharm	Oxalic acid D30 vial	09.05.12	80	from supplier
Caelo	Peanut oil, hydrated	13339803	40	20131105
Maros	Pelargonium root mother tincture	01028113	40	20121030
Caelo	Pepsin wine	12277403	60	20120921
Caelo	Pepsin wine	14339802	45	1503624
Caelo	Pepsin wine	15449301	60	20160118
Caelo	Pepsin wine	15449303	40	20160118
Caelo	Peru balsam, original	12302401	40	20121017
Caelo	Peru balsam, original	14223909	60	1703349
Fagron	Peru balsam, original	13F13-N04	40	1502255
Hänseler AG	Petroleum ether Ph.Helv.	2021.10.0040	40	20211112
Hänseler AG	Petroleum ether Ph.Helv.	2021.12.0565	40	20220121
Caelo	Plantain herb liquid extract (35%) 1:1	11332613	40	20111129
Caelo	Polyacrylic acid gel pH 6,5 (NRF p. 43)	173012	40	20171027*
apomix	Prednisolone 1% (non-ionic - hydrophilic cream SR)	07A031212	40	20121207
apomix	Prednisolone 1% (non-ionic - hydrophilic cream SR)	01A100113	40	20130110
Caelo	Prednisolone acetate concentrate 10% basis white paraffin	13077701	100	20130313
Caelo	Primrose root liquid extract 1:1	12175307	100	1404596
Caelo	Primrose root liquid extract 1:1	13330110	60	20130930
Caelo	Propolis liquid extract 10% (in propylene glycol)	11220406	40	20110829
Caelo	Propolis liquid extract 10% (in propylene glycol)	13347602	40	1404589
Caelo	Propolis liquid extract 10% (in propylene glycol)	13347606	60	20131030
Bombastus	Propolis tincture 20%	273005	40	20120712
Bombastus	Propolis tincture 20%	273005	40	20120712
Caelo	Pyroligneous acid, purified	12023203	40	20120130
Maros	Ribwort plantain tincture 1:5	6736	40	20120227
Maros	Robert herb mother tincture	U3720	40	20111127
Maros	Rosemary leaf mother tincture D1	U3238	40	20110531

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra	Certificate
Caelo	Sage leaf liquid extract (55%) 1:1	11372203	40	20120102
apomix	Searing paste SR	04B130418	40	20180416
Caelo	Siam benzoin tincture (90%) 1:5	13169905	50	1405623
Hedinger	Sodium hypochlorite solution 1%	045226	40	20170110
Euro OTC	Sodium lactate solution 60%	1201037-01	60	20120224
Euro OTC	Sodium lactate solution 60%	1310007-01	60	20140217
Euro OTC	Sodium lactate solution 60%	1310007-01	40	AR-17-FG-012458-01
Euro OTC	Sodium lactate solution 60%	1310007-01	40	20140217
EDQM	Squalene	1.0	40	CRS
Caelo	St. John's wort oil	12076913	40	20120323
Caelo	St. John's wort oil	13389218	40	20131210
Maros	St. John's wort oil	9712	40	20121102
Caelo	Standardised cayenne pepper extract (80%) 4-7:1	13259103	20	20130926
Maros	Strophanthus seed mother tincture D1	01028513	40	20121210
Maros	Sundew herb mother tincture	U3354	40	20120917
Bene	Tacholiniquin® 1% solution	350K121	40	from supplier
Maros	Teasel root mother tincture	U3685	40	20121114
Maros	Tetterwort mother tincture	U3063	40	20110905
Caelo	Texapon® CS paste	12292001	40	20121010
Caelo	Texapon® CS paste	12292006	40	20121010
Caelo	Texapon® CS paste	14087206	60	1501415
Caelo	Texapon® CS paste	16268901	40	20160915
Caelo	Texapon® CS paste	16268901	40	20160915
Caelo	Thyme liquid extract	13273613	60	20130819
apomix	Triamcinolone acetonide 1% (non-ionic, hydrophile cream SR)	01A210513	40	20130521
apomix	Triamcinolone acetonide 1% (non-ionic, hydrophile cream SR)	09C111212	40	20121212
Caelo	Triamcinolone acetonide concentrate 2% base white paraffin	12250701	70	20120830
Caelo	Valerian root liquid extract	13343703	60	20131017
Caelo	Vitamin A-palmitate (ca. 1 m I.U./g)	12132910	60	20120516
Maros	Waterhorehound herb mother tincture	U3388	40	20120203
Maros	Willow bark tincture 1:5	6865	40	20120604
Caelo	Witch hazel bark liquid extract (45%) 1:1	13357902	40	1407627
Caelo	Witch hazel bark liquid extract (45%) 1:1	13357902	40	20131107
Caelo	Witch hazel leaf liquid extract (45%) 1:1	12165010	40	20120628
Maros	Wood violet mother tincture	U2222	40	20120511
Hänseler AG	Wool wax Ph.Helv.	2017.10.0158	40	20171114
Hänseler AG	Wool wax Ph.Helv.	2021.06.0032	40	20210803
Caelo	Wormwood tincture (70%) 1:5	12237901	40	20120829
Maros	Yam mother tincture	32210	40	20111020
Caelo	Ylang-ylang oil	12040606	40	20120301
Caelo	Ylang-ylang oil	14192905	60	20140730
Caelo	Ylang-ylang oil	15101104	60	9203

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra	Certificate
Caelo	Ylang-ylang oil	15101104	60	20150330
Caelo	Ylang-ylang oil	15101109	40	20150330
Caelo	Ylang-ylang oil	15101109	40	20150330
Caelo	Ylang-ylang oil	163148	40	20161213*
Caelo	Ylang-ylang oil	16314804	40	20161213
apomix	Zinc oxide cream 25% SR (NRF 11.109)	02B220119	40	20190123
Henry Lamotte	Zinc oxide lotion, aqueous DAC	5375600	40	20121026
Caelo	Zinc oxide oil DAC	12289802	40	20121107
apomix	Zinc oxide paste SR90	01A190218	40	20180220
apomix	Zinc oxide paste, soft SR90	31B141117	40	20171114
Caelo	Zinc oxide shaking mixture, ethanolic	20001114002	50	20200504
Henry Lamotte	Zinc paste, soft DAB	5374900	40	20120918
Caelo	Zinc paste, soft DRF (stabilised)	12378402	80	20121220

*The spectra were taken from a part of the same sample which the supplier used for its analysis (identity, purity, content). In this case the manufacturer certificates proof the identity and quality of the sample from those the spectra descend.

Appendix C: Additional validation samples (*Type C*)

Spectra for substances from the field which cannot be identified with this model also enter the validation. In this manner, it is verified that the model also rejects unknown substances. The spectra for these samples were recorded by *Apo-Ident* customers. They belong to *Type C*. The information provided by the customer regarding the manufacturer and batch number is taken over by *HiperScan GmbH* to a large extent unchecked.

The samples originate from 4392 batches. From these, 16 549 spectra were recorded. The spectra recorded on independent samples of substances from the field which can be identified with the model are listed respectively in the section *Type C* for the individual substances and do not appear again elsewhere in this list.

Supplier	Substance	Batch	Spectra
Caelo	Acorus tincture (70%) 1:5	11355115	1
Caelo	Acorus tincture (70%) 1:5	11355110	2
Caelo	Acorus tincture (70%) 1:5	13051001	2
Caelo	Acorus tincture (70%) 1:5	19121322	1
Anzag ek:10.21EUR 27.08...	Alcoholic liniment	12103301	1
Caelo	Alcoholic liniment	2507212316	1
Caelo	Alcoholic liniment	204312316	1
Caelo	Alcoholic liniment	34365645645	1
Caelo	Alcoholic liniment	445255	1
Caelo	Alcoholic liniment	2612M-02925	1
Caelo	Alcoholic liniment	12103312	1
Caelo	Alcoholic liniment	12103319	1
Caelo	Alcoholic liniment	5213E2316	1
Caelo	Aloe vera oil	11014807	2
Caelo	Aloe vera oil	12033104	1
Caelo	Aloe vera oil	11014806	1
Caelo	Aloe vera oil	12033106	1
Caelo	Aloe vera oil	12033108	1
Caelo	Aloe vera oil	12033111	1
Caelo	Aloe vera oil	123033108	1
Caelo	Aloe vera oil	12033114	2
Caelo	Aloe vera oil	12383702	3
Caelo	Aloe vera oil	12383703	3
Caelo	Aloe vera oil	12383706	5
Caelo	Aloe vera oil	12033107	1
Caelo	Aloe vera oil	12033113	4
Caelo	Aloe vera oil	12033101	1
Caelo	Aloe vera oil	11014804	1
Caesar § Lorenz GmbH	Aloe vera oil	12383707	1
Primavera	Aloe vera oil	8601131	1
Taoasis	Aloe vera oil	110137-96542	1
Taoasis	Aloe vera oil	120247-107323	1
Taoasis	Aloe vera oil	111208-105327	1
Taoasis	Aloe vera oil	120247-106498	1
Taoasis	Aloe vera oil	130237-111659	1
Taoasis	Aloe vera oil	130501-112371	1
Taoasis	Aloe vera oil	130237-112020BAG94	1
Taoasis GmbH	Aloe vera oil	130237	1
Maros	Angelica root tincture 1:5	1028713	2
Maros	Angelica root tincture 1:5	8030113	1
Caelo	Apricot aroma	14C19-B30-292291	1
Caelo	Arnica oil, fat	11096702	1
Caelo	Arnica oil, fat	12088504	3
Caelo	Arnica oil, fat	Sanacorb	1
Caelo	Arnica oil, fat	12359703	1
Caelo	Arnica oil, fat	13186604	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Arnica oil, fat	13186601	2
Caelo	Arnica oil, fat	13042503	3
Caelo	Arnica oil, fat	13186602	1
Taoasis	Arnica oil, fat	7360-111366	1
Taoasis	Arnica oil, fat	7360-112511	1
Taoasis	Arnica oil, fat	7525-113064	1
Taoasis	Arnica oil, fat	7360-111459	1
Caelo	Arnica tincture (70%) 1:10	10341801	1
Caelo	Arnica tincture (70%) 1:10	10362814	3
Caelo	Arnica tincture (70%) 1:10	10362820	1
Caelo	Arnica tincture (70%) 1:10	12031001	1
Caelo	Arnica tincture (70%) 1:10	12031004	2
Caelo	Arnica tincture (70%) 1:10	12031008	1
Caelo	Arnica tincture (70%) 1:10	12301009	1
Caelo	Arnica tincture (70%) 1:10	20090312-4	1
Caelo	Arnica tincture (70%) 1:10	10362809	1
Caelo	Arnica tincture (70%) 1:10	12031015	7
Caelo	Arnica tincture (70%) 1:10	26031301	1
Caelo	Arnica tincture (70%) 1:10	10362805	1
Caelo	Arnica tincture (70%) 1:10	13094609	5
Caelo	Arnica tincture (70%) 1:10	8111301	1
Caelo	Arnica tincture (70%) 1:10	13094607	3
Caelo	Arnica tincture (70%) 1:10	13094610	2
Caelo	Arnica tincture (70%) 1:10	10362815	2
Caelo	Arnica tincture (70%) 1:10	12031017	7
Caelo	Arnica tincture (70%) 1:10	13094613	1
Caelo	Arnica tincture (70%) 1:10	12031009	4
Caelo	Arnica tincture (70%) 1:10	13094612	2
Caelo	Arnica tincture (70%) 1:10	1213A-02398	1
Euro OTC	Arnica tincture (70%) 1:10	1211003-01	4
Euro OTC	Arnica tincture (70%) 1:10	120404601	1
Euro OTC	Arnica tincture (70%) 1:10	1204046-01	4
Euro OTC	Arnica tincture (70%) 1:10	1306038-01	1
Euro OTC	Arnica tincture (70%) 1:10	1112029-01	1
Lamotte	Arnica tincture (70%) 1:10	5139400	1
Teofarma	Arnica tincture (70%) 1:10	144301	1

Supplier	Substance	Batch	Spectra
Caelo	Basil oil	13153601	1
Caelo	Belladonna tincture, standardi…	11322611	2
Caelo	Belladonna tincture, standardi…	12315101	1
Caelo	Belladonna tincture, standardi…	12315104	2
Caelo	Belladonna tincture, standardi…	12315111	2
Caelo	Belladonna tincture, standardi…	13273004	1
Caelo	Belladonna tincture, standardi…	11322615	1
Caelo	Benzalkonium chloride	12033403	2
Caelo	Benzalkonium chloride	12033411	1
Caelo	Benzalkonium chloride	13307902	1
Caelo	Benzalkonium chloride	13070201	1
Caelo	Benzalkonium chloride	13070206	6
Caesar & Loretz GmbH,…	Benzalkonium chloride	12033407	2
Sanacorp	Benzalkonium chloride	10190002	1
apomix	Benzalkonium chloride solution…	4a210515	1
apomix	Benzalkonium chloride solution…	6B060912	1
apomix	Benzalkonium chloride solution…	3A170413	2
apomix	Benzalkonium chloride solution…	2B070313	1
apomix	Benzalkonium chloride solution…	4A110713	2
Caelo	Benzoic lard (stabilised)	12063902	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Betamethasone valerate 1%	10B060613	1
Anzag/04.04.2013	Betamethasone valerate 1%	3B280213	1
apomix	Betamethasone valerate 1%	9B160413	1
apomix	Betamethasone valerate 1%	13C031213	1
Ichthyol	Betamethason-V 1.22% Cordes® RK	11D001	56
Ichthyol	Betamethason-V 1.22% Cordes® RK	11D01	1
Ichthyol	Betamethason-V 1.22% Cordes® RK	11D035	99
Ichthyol	Betamethason-V 1.22% Cordes® RK	11/2015	1
Ichthyol/Jenne	Betamethason-V 1.22% Cordes® RK	12D015	24
Ichthyol/Jenne	Betamethason-V 1.22% Cordes® RK	12D015	2
Maros	Bitter candytuft fresh plant t...	5408	1
Maros	Bitter candytuft fresh plant t...	5433	1
Caelo	Bitter orange tincture (70%) 1:5	27072013	1
Caelo	Bitter orange tincture (70%) 1:5	13003302	1
Caelo	Bitter orange tincture (70%) 1:5	12231906	2
Caelo	Bitter orange tincture (70%) 1:5	13003301	1
Caelo	Bitter orange tincture (70%) 1:5	13003309	1
Gehe	Bitter orange tincture (70%) 1:5	11187211	1
Gehrlicher/Gehrlicher	Burnet root mother tincture	U3600	1

Supplier	Substance	Batch	Spectra
Caelo	Calendula mother tincture	12117313	1
Caelo	Calendula oil, fat	12189901	1
Caelo	Calendula oil, fat	11274801	2
Caelo	Calendula oil, fat	11183102	1
Caelo	Calendula oil, fat	12216901	2
Caelo	Calendula oil, fat	13185402	4
Caelo	Calendula oil, fat	14001004	2
Caelo	Calendula oil, fat	13251002	3
Caelo	Calendula oil, fat	12373103	1
Caelo	Calendula oil, fat	13069603	1
Caelo	Calendula oil, fat	12373101	2
Caelo	Calendula oil, fat	12006802	3
Caelo	Calendula oil, fat	122116904	1
Caelo	Calendula oil, fat	13251002/1	1
Caelo	Calendula oil, fat	13355701	1
Caelo	Calendula oil, fat	13185401	2
Caelo	Calendula oil, fat	12373102	3
Caelo	Calendula oil, fat	13355702	2
Caesar u Loretz	Calendula oil, fat	13251004	1
Caelo	Calendula oil, fat	13251003	4
Klenk	Calendula oil, fat	12308503	1
Caelo	Calendula oil, fat	12189903	2
Caelo	Calendula oil, fat	12216904	1
Caelo	Calendula oil, fat	12308502	2
Caelo	Calendula oil, fat	13069601	1
Taoasis	Calendula oil, fat	119426-108734	1
Taoasis	Calendula oil, fat	119943-110316	1
Caelo	Calendula tincture (70%) 1:5	10260111	1
Caelo	Calendula tincture (70%) 1:5	11143803	1
Caelo	Calendula tincture (70%) 1:5	11332710	1
Caelo	Calendula tincture (70%) 1:5	12117305	1
Caelo	Calendula tincture (70%) 1:5	12117308	2
Caelo	Calendula tincture (70%) 1:5	11332702	1
Caelo	Calendula tincture (70%) 1:5	19061311	1
Caelo	Calendula tincture (70%) 1:5	13142803	1
Caelo	Calendula tincture (70%) 1:5	12117320	1
Caelo	Calendula tincture (70%) 1:5	13142802	2
Caelo	Calendula tincture (70%) 1:5	12117311	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Calendula tincture (70%) 1:5	12117301	3
Caelo	Calendula tincture (70%) 1:5	12117310	2
Caelo	Calendula tincture (70%) 1:5	12117312	3
Caelo	Calendula tincture (70%) 1:5	12117313	1
Caelo	Calendula tincture (70%) 1:5	12117317	5
Caelo	Calendula tincture (70%) 1:5	13142804	7
Anzag 27.12.12 ek:5,19	Camphor oil 10%	12269502	10
Berkel AHK	Camphor oil 10%	15028001	3
Caelo	Camphor oil 10%	14139202	2
Caelo	Camphor oil 10%	15028003	1
Caelo	Camphor oil 10%	14139201	1
Caelo	Camphor oil 10%	18082015A	1
Caelo	Camphor oil 10%	15028002	1
Caelo	Camphor oil 10%	15028003	1
Caelo	Camphor oil 10%	15338202	2
Caelo	Camphor oil 10%	15338201	1
Caelo	Camphor oil 10%	15338202	1
Caelo	Camphor oil 10%	16085205	1
Caelo	Camphor oil 10%	12269501	1
Caelo	Camphor oil 10%	13317401	4
Caelo	Camphor oil 10%	13043901	2
Caelo	Camphor oil 10%	15208001	1
Caelo	Camphor oil 10%	13317402	10
Caelo	Camphor oil 10%	15338201	1
Caelo	Camphor oil 10%	16085201	2
L12	Camphor oil 10%	16085202	2
Midas	Camphor oil 10%	17003105	3
Euro OTC	Camphor oil 10%	15338204	2
phönix	Camphor oil 10%	7/AKD57	1
Caelo	Camphor oil 10%	14139202	4
Caelo	Camphor oil 10%	15028004	2
Caelo	Camphor oil 10%	15338205	1
Sanacorp	Camphor oil 10%	7/AKD4	1
Caelo	Carbomer gel 1%	1102D002	1
Fagron	Carbomer gel 1%	1211D010	3
Fagron	Carbomer gel 1%	1309D002	1
Fagron	Carbomer gel 1%	1302D002	7
Fagron	Carbomer gel 1%	1309D001	1
Caelo	Carotene (ca. 4m IU)	19186005	1
Caelo	Carotene (ca. 4m IU)	19091603	1
Caelo	Carotene (ca. 4m IU)	13008404	1
Caelo	Carotene (ca. 4m IU)	17192406	2
Caelo	Carotene (ca. 4m IU)	19044803	5
Caelo	Carotene (ca. 4m IU)	18086105	3
Resena/Anzag	Carotene (ca. 4m IU)	1204-3534	1
AHD	Castor oil, hydrated	278661	1
Anzag 19.12.2012	Castor oil, hydrated	273882	3
Anzag 29.04.13 ek: 3,...	Castor oil, hydrated	13096304	1
Bombastus	Castor oil, hydrated	266593	1
Bombastus	Castor oil, hydrated	269565	3
Bombastus	Castor oil, hydrated	270580	5
Bombastus	Castor oil, hydrated	264468	1
Bombastus	Castor oil, hydrated	26956512-13	1
Bombastus	Castor oil, hydrated	275938	1
Bombastus	Castor oil, hydrated	271754	2
Bombastus	Castor oil, hydrated	266591	1
Bombastus	Castor oil, hydrated	272591	1
Bombastus	Castor oil, hydrated	255179	1
Caelo	Castor oil, hydrated	8061201	1
Caelo	Castor oil, hydrated	16071201	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Castor oil, hydrated	11260604	1
Caelo	Castor oil, hydrated	4101201	1
Caelo	Castor oil, hydrated	12114603	3
Caelo	Castor oil, hydrated	25011301	1
Caelo	Castor oil, hydrated	14199604	1
Caelo	Castor oil, hydrated	14101703	1
Caelo	Castor oil, hydrated	11359502	2
Caelo	Castor oil, hydrated	12114606	1
Caelo	Castor oil, hydrated	11359508	6
Caelo	Castor oil, hydrated	12071101	1
Caelo	Castor oil, hydrated	11359507	1
Caelo	Castor oil, hydrated	12114605	2
Caelo	Castor oil, hydrated	11260603	2
Caelo	Castor oil, hydrated	11260609	1
EuRho	Castor oil, hydrated	1212008-01	1
Euro OTC	Castor oil, hydrated	1112002-02	1
Euro OTC	Castor oil, hydrated	1109001-01	1
Euro OTC	Castor oil, hydrated	1910212009	1
Euro OTC	Castor oil, hydrated	1202041-02	1
Euro OTC	Castor oil, hydrated	1512212009	1
Euro OTC	Castor oil, hydrated	1206039-01	2
Euro OTC	Castor oil, hydrated	120204-01	1
Euro OTC	Castor oil, hydrated	1206039-02	2
Fagron	Castor oil, hydrated	10L02-N03	1
Gehe	Castor oil, hydrated	1311012	1
Bombastus	Castor oil, hydrated	273390	13
H.Lamotte/Noweda	Castor oil, hydrated	5280301	2
H.Lamotte/Noweda	Castor oil, hydrated	123384	1
Caelo	Castor oil, hydrated	11359501	2
Caelo	Castor oil, hydrated	12114602	3
lamotte	Castor oil, hydrated	5188401	2
Lamotte / Gehe	Castor oil, hydrated	5138701	2
Noweda	Castor oil, hydrated	268877	1
Euro OTC	Castor oil, hydrated	2507213553	1
Phoenix	Castor oil, hydrated	11325205	2
Phoenix	Castor oil, hydrated	12071107	1
Phönix Gotha	Castor oil, hydrated	12H29-N04	2
Phönix Gotha	Castor oil, hydrated	12H29-NO4	1
Caelo	Castor oil, hydrated	12042103	2
Caelo	Cayenne pepper tincture, stand...	13072013	1
Caelo	Cayenne pepper tincture, stand...	11102425	1
Caelo	Cayenne pepper tincture, stand...	11102419	1
Caelo	Cayenne pepper tincture, stand...	12207111	2
Phönix	Cayenne pepper tincture, stand...		1
Bombastus	Chinese cinnamon oil	263892	1
Bombastus	Chinese cinnamon oil	262660	1
Bombastus	Chinese cinnamon oil	269558	1
Nachprüfung	Chinese cinnamon oil		1
Caelo	Cinchona bark tincture, compos...	13069808	1
Maros/Maros	Cistus tincture 1:5	11027812	1
apomix	Clobatesol propionate 0,5%	1A20213	1
apomix	Clobatesol propionate 0,5%	13A131113	1
apomix	Clobatesol propionate 0,5%	6A070513	1
ichthyol	Clobetasol 0.5% Cordes® RK	5112M-03390	1
ichthyol	Clobetasol 0.5% Cordes® RK	1713M-03390	1
Ichthyol	Clobetasol 0.5% Cordes® RK	11D003	12
Ichthyol	Clobetasol 0.5% Cordes® RK	9D035	1
Ichthyol	Clobetasol 0.5% Cordes® RK	11D034	24
Ichthyol	Clobetasol 0.5% Cordes® RK	10D024	1
Ichthyol	Clobetasol 0.5% Cordes® RK	12d012	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Ichtyol	Clobetasol 0.5% Cordes® RK	12D012	14
Caelo	Coal tar solution	11319204	5
Caelo	Coal tar solution	9345509	2
Caelo	Coal tar solution	9345510	1
Caelo	Coal tar solution	9345406	1
Caelo	Coal tar solution	27071207	1
Caelo	Coal tar solution	113192017	1
Caelo	Coal tar solution	12286103	23
Caelo	Coal tar solution	13193703	4
Caelo	Coal tar solution	13193713	2
Caelo	Coal tar solution	14331403	1
Caelo	Coal tar solution	14331401	1
Caelo	Coal tar solution	14331402	1
Caelo	Coal tar solution	14331509	1
Caelo	Coal tar solution	14331506	1
Caelo	Coal tar solution	15203703	1
Caelo	Coal tar solution	11319207	10
Caelo	Coal tar solution	90391069	2
Caelo	Coal tar solution	15203704	1
Caelo	Coal tar solution	11319209	1
Caelo	Coal tar solution	9039201	1
Caelo	Coal tar solution	11319203	1
Caelo	Coal tar solution	24131-01799	1
Caesar & Loretz GmbH	Coal tar solution	72816068	1
Euro OTC	Coal tar solution	1110031-01	6
Euro OTC	Coal tar solution	1110031-03	1
Euro OTC	Coal tar solution	1110031	2
Euro OTC	Coal tar solution	1307027-01	2
Fagron	Coal tar solution	11F21-N01	3
Fagron	Coal tar solution	20230712-6	1
Fagron	Coal tar solution	12L05-N02	4
Fagron	Coal tar solution	13H06-N02	9
Fagron	Coal tar solution	16102013B	1
Fagron	Coal tar solution	13H06N02	1
Fagron	Coal tar solution	18061301	1
Fagron	Coal tar solution	13I26-N02	1
Fagron	Coal tar solution	2011.07.0288	2
Fagron	Coal tar solution	12E08-N01	3
Fagron	Coal tar solution	4513E1799	1
Fagron	Coal tar solution	11/05-N12	1
Fagron	Coal tar solution	12E08-N08	1
Fagron	Coal tar solution	12H28-N05	1
Fiebig	Coal tar solution	9345501	3
Gehe	Coal tar solution	701972-0001	1
Gehe	Coal tar solution	12A20-N04	1
Krieger	Coal tar solution	11319212	4
Euro OTC	Coal tar solution	1110031-02	6
Phönix	Coal tar solution	12l05-n02	1
Phönix	Coal tar solution	12F19-N08	3
Phönix	Coal tar solution	11B14-N04	1
Retest	Coal tar solution	11D01-N04	1
Caelo	Coconut oil, hardened	613E-07004	1
Caelo	Coconut oil, hardened	11379511	1
Caelo	Coconut oil, hardened	11379510	2
Caelo	Coconut oil, hardened	11379517	1
Cealo / Noweda	Coconut oil, hardened	13010808	1
Caelo	Comfrey root tincture, cleaned...	11121314	2
Caelo	Comfrey root tincture, cleaned...	12054008	1
Caelo	Comfrey root tincture, cleaned...	12054012	2
Caelo	Comfrey root tincture, cleaned...	12054016	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Comfrey tincture, cleaned of p...	11121406	1
Caelo	Comfrey tincture, cleaned of p...	14298513	1
Caelo	Comfrey tincture, cleaned of p...	12177001	3
Caelo	Comfrey tincture, cleaned of p...	12177005	1
Caelo	Comfrey tincture, cleaned of p...	4512E-02482	1

Supplier	Substance	Batch	Spectra
apomix	Dexamethasone 1% (non-ionic, h...	4A270513	1
apomix	Dexamethasone 1% (non-ionic, h...	2A220313	1
Caelo	Dimethyl isosorbide	16170901	1
Caelo	Dimethyl isosorbide	16170902	12
Caelo	Dimethyl isosorbide	17169801	1

Supplier	Substance	Batch	Spectra
Caelo	Food coloraunt blue (E131)	12322306	1
Caelo	Food coloraunt blue (E131)	12038601	1
Caelo	Food coloraunt blue (E131)	13212405	1
Caelo	Food coloraunt green (E102; E1...	13020105	1
Caelo	Food coloraunt red (E124)	13020001	1
Caelo	Food coloraunt red (E124)	13020002	1
Caelo	Food coloraunt red (E124)	13020005	1
Caelo	Food coloraunt yellow (E102; E...	12022212	1
Caelo	Food coloraunt yellow (E102; E...	13075706	1
Anzag/ Fischar	Formic acid 85%		1
Caelo	Formic acid 85%	10343801	1
Caelo	Formic acid 85%	13373301	1
Hedinger	Formic acid 85%	383338	1
Hedinger	Formic acid 85%	170912	1
Caelo	Formic acid 85%	16239301	1

Supplier	Substance	Batch	Spectra
Ichthyol	Gentamicin 1% Cordes® RK	10D026	33
Ichthyol	Gentamicin 1% Cordes® RK	10d026	1
Ichthyol	Gentamicin 1% Cordes® RK	12D010	28
Ichthyol-Gesellschaft...	Gentamicin 1% Cordes® RK	9D002	1
Caelo	Gentian tincture (70%) 1:5	11220506	1
Caelo	Gentian tincture (70%) 1:5	11220504	1
Caelo	Gentian tincture (70%) 1:5	4109M-02442	1
Caelo	Gentian tincture (70%) 1:5	12035507	5
Caelo	Gentian tincture (70%) 1:5	13036405	1
Caelo	Gentian tincture (70%) 1:5	300711	1
Caesar&loretz,Phoenix	Gentian tincture (70%) 1:5	13036409	2
Caesar/Noweda	Gentian tincture (70%) 1:5	13036408	1
Nachprüfung	Gentian tincture (70%) 1:5	411E02442	1
Phönix Gotha	Gentian tincture (70%) 1:5	10334601	1
Caelo	Ginger tincture (70%) 1:5	11053812	1
Caelo	Ginger tincture (70%) 1:5	11323810	1

Supplier	Substance	Batch	Spectra
Caelo	Hawthorn tincture of leaf and ...	12211008	1
Caelo	Horse chestnut seed liquid ext...	12293604	1
Caelo	Horse chestnut seed liquid ext...	11194611	2
Caelo	Horse chestnut seed tincture	12295308	1
apomix	Hydrogen peroxide solution 3%	231A160513	1
apomix	Hydrogen peroxide solution 3%	6A070114	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrogen peroxide solution 3%	6A080116	1
apomix	Hydrogen peroxide solution 3%	227A160513	1
apomix	Hydrogen peroxide solution 3%	472A160913	1
apomix	Hydrogen peroxide solution 3%	67A300113	1
apomix	Hydrogen peroxide solution 3%	447A050913	1
apomix	Hydrogen peroxide solution 3%	546A251013	1
Caelo	Hydrogen peroxide solution 3%	341A160713	2
Caelo	Hydrogen peroxide solution 3%	12D17-M05	2
Defektur 05.11,2013	Hydrogen peroxide solution 3%	2013-11-05Defektur	1
Fagron	Hydrogen peroxide solution 3%	13K07-M04	1
Fagron	Hydrogen peroxide solution 3%	12I06-M05	1
Fagron	Hydrogen peroxide solution 3%	13A02-M10	1
Fagron	Hydrogen peroxide solution 3%	13D05-M04	1
Fagron	Hydrogen peroxide solution 3%	13G09-M07	1
Fagron	Hydrogen peroxide solution 3%	13G09-M03	1
Fagron	Hydrogen peroxide solution 3%	13G12-M06	1
Fagron	Hydrogen peroxide solution 3%	13G12-M09	1
Fagron	Hydrogen peroxide solution 3%	13A02-M13	1
Fischar	Hydrogen peroxide solution 3%	6303042A	1
GEHE	Hydrogen peroxide solution 3%		10
GEHE	Hydrogen peroxide solution 3%	H216091/1	1
Hedinger	Hydrogen peroxide solution 3%	301205	1
Hedinger	Hydrogen peroxide solution 3%	301208	1
Hedinger	Hydrogen peroxide solution 3%	301210	2
Hedinger	Hydrogen peroxide solution 3%	301207	1
Hedinger	Hydrogen peroxide solution 3%	301212	1
Hedinger	Hydrogen peroxide solution 3%	301211	1
Hedinger/AHD	Hydrogen peroxide solution 3%	61010B	1
Herbeta Arzneimittel	Hydrogen peroxide solution 3%	150612O2	1
Hergestellt am 03.07....	Hydrogen peroxide solution 3%	2013-07-03C	1
Hubertus Apo	Hydrogen peroxide solution 3%	240513	1
Hubertus Apo	Hydrogen peroxide solution 3%	100913	1
Hubertus Apotheke	Hydrogen peroxide solution 3%	130114	1
Hubertus Apotheke	Hydrogen peroxide solution 3%	5082014	1
PKH / Gehe	Hydrogen peroxide solution 3%	12D27-M09	1
PKH / Gehe	Hydrogen peroxide solution 3%	12D26-M05	1
PKH / Gehe	Hydrogen peroxide solution 3%	12I06-M07	2
PKH / Gehe	Hydrogen peroxide solution 3%	12I04-M09	1
PKH / Gehe	Hydrogen peroxide solution 3%	13A02-M09	3
PKH GmbH	Hydrogen peroxide solution 3%	487A161012	1
PKH GmbH/Anzag	Hydrogen peroxide solution 3%	485A121012	1
stumpf	Hydrogen peroxide solution 3%	280A060712	1
Anzag	Hydrogen peroxide solution 30%	61007B	7
Anzag/Fischar	Hydrogen peroxide solution 30%	6313035	2
Caelo	Hydrogen peroxide solution 30%	610093	1
Caelo	Hydrogen peroxide solution 30%	12091302	1
Caelo	Hydrogen peroxide solution 30%	61010b	1
fischar	Hydrogen peroxide solution 30%	6312072	3
fischar	Hydrogen peroxide solution 30%	6312082	2
fischar	Hydrogen peroxide solution 30%	6313072	2
Fischar	Hydrogen peroxide solution 30%	6311092	3
Fischar	Hydrogen peroxide solution 30%	6312061	1
Fischar	Hydrogen peroxide solution 30%	6312073	2
Fischar	Hydrogen peroxide solution 30%	6312081	2
Fischar	Hydrogen peroxide solution 30%	6312077	1
Fischar	Hydrogen peroxide solution 30%	631109	1
Fischar	Hydrogen peroxide solution 30%	6313025	2
Fischar	Hydrogen peroxide solution 30%	6313061	5
Fischar	Hydrogen peroxide solution 30%	6314018	1
Fischar	Hydrogen peroxide solution 30%	6314021	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fischar	Hydrogen peroxide solution 30%	6315084	1
Fischar 25.06.2013 Al...	Hydrogen peroxide solution 30%	6313034	1
Fischar/AHD	Hydrogen peroxide solution 30%	6313062	1
Fischar/Anzag	Hydrogen peroxide solution 30%	6313064	2
Fischar/G	Hydrogen peroxide solution 30%	6313033	2
Fischar/G	Hydrogen peroxide solution 30%	6313093	2
Fischar/Gehe	Hydrogen peroxide solution 30%	6313102	1
Fischar/GEHE/16.04.2013	Hydrogen peroxide solution 30%	6312114	3
Fischar/GUMO /02.08.2...	Hydrogen peroxide solution 30%	6313027	7
Fischar/Sanacorp	Hydrogen peroxide solution 30%	6312111	1
Fischbar	Hydrogen peroxide solution 30%	4101202	1
Gehe	Hydrogen peroxide solution 30%	6312074	3
Gehe/Fischar/11.12.2012	Hydrogen peroxide solution 30%	6312105	8
GEHE/Fischar/12.06.2012	Hydrogen peroxide solution 30%	6312012	3
Gehe/Fischar11.07.2012	Hydrogen peroxide solution 30%	6312051	7
Hedinger	Hydrogen peroxide solution 30%	61006B	1
Hedinger	Hydrogen peroxide solution 30%	61005B	2
Hedinger	Hydrogen peroxide solution 30%	61010B	21
Hedinger	Hydrogen peroxide solution 30%	61011B	24
Hedinger	Hydrogen peroxide solution 30%	16092013A	1
Hedinger	Hydrogen peroxide solution 30%	210913H2O2	1
Hedinger	Hydrogen peroxide solution 30%	8111302	1
Hedinger	Hydrogen peroxide solution 30%	61003B	2
Hedinger	Hydrogen peroxide solution 30%	610128	1
HEDINGER	Hydrogen peroxide solution 30%	601008B	1
Hedinger / Gehe	Hydrogen peroxide solution 30%	(061b)061b	2
Hedinger / Gehe	Hydrogen peroxide solution 30%	64044B	1
Hedinger Jenne	Hydrogen peroxide solution 30%	61009B	21
Hedinger/Anzag	Hydrogen peroxide solution 30%	4413A-01720	1
Hedinger/Anzag 21.07....	Hydrogen peroxide solution 30%	61008B	19
Noweda/Hedinger	Hydrogen peroxide solution 30%	61012B	8
Otto Fischar	Hydrogen peroxide solution 30%	6313101	1
Otto Fischar / Noweda	Hydrogen peroxide solution 30%	6314011	1
Otto Fischar gmbh	Hydrogen peroxide solution 30%	6314113	1
Otto Fischar gmbh	Hydrogen peroxide solution 30%	6315031	1
Otto Fischar GmbH	Hydrogen peroxide solution 30%	6312021	2
Otto Fischar GmbH& Co...	Hydrogen peroxide solution 30%	6313055	5
Phönix	Hydrogen peroxide solution 30%	6313073	2
Caelo	Hydrogen peroxide solution 30%		1
apomix	Hydrophilic metronidazole crea...	7B180713	5
apomix	Hydrophilic metronidazole crea...	6B120613	5
apomix	Hydrophilic metronidazole crea...	11201113	1
AMH Niemann GmbH & Co...	Hydrophilic metronidazole crea...	4190413	1
AMH Niemann Gmbh+Co Kg	Hydrophilic metronidazole crea...	5B170414	1
amv niemann gmbh&co kg	Hydrophilic metronidazole crea...	4B060515	1
Anzag	Hydrophilic metronidazole crea...	11B201113	2
apomix	Hydrophilic metronidazole crea...	11B221112	2
apomix	Hydrophilic metronidazole crea...	5B020513	6
apomix	Hydrophilic metronidazole crea...	9B091013	2
apomix	Hydrophilic metronidazole crea...	10C141013	1
apomix	Hydrophilic metronidazole crea...	1B190112	1
apomix	Hydrophilic metronidazole crea...	2B220212	2
apomix	Hydrophilic metronidazole crea...	4B270412	1
apomix	Hydrophilic metronidazole crea...	9B041012	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Hydrophilic metronidazole crea...	8418213	2
apomix	Hydrophilic metronidazole crea...	8B110912	4
apomix	Hydrophilic metronidazole crea...	10B251012	3
apomix	Hydrophilic metronidazole crea...	1B030113	4
apomix	Hydrophilic metronidazole crea...	3B140313	4
apomix	Hydrophilic metronidazole crea...	2B220213	5
apomix	Hydrophilic metronidazole crea...	6B310512	3
apomix	Hydrophilic metronidazole crea...	7B200712	5
apomix	Hydrophilic metronidazole crea...	8B290813	3
apomix	Hydrophilic metronidazole crea...	11B20113	1
apomix	Hydrophilic metronidazole crea...	12B111213	1
Brückenapotheke	Hydrophilic metronidazole crea...	3113Q-07001	1
Brückenapotheke	Hydrophilic metronidazole crea...	3313M-07001	1
Brückenapotheke	Hydrophilic metronidazole crea...	3913E-07001	1
Brückenapotheke	Hydrophilic metronidazole crea...	5013A-07001	1
Brückenapotheke	Hydrophilic metronidazole crea...	414M-07001	1
Brücken-Apotheke	Hydrophilic metronidazole crea...	4613M-07001	1
Defektur	Hydrophilic metronidazole crea...	3212M-03387	1
Defektur	Hydrophilic metronidazole crea...	3412M-07001	1
Defektur	Hydrophilic metronidazole crea...	3512l-07001	1
Defektur	Hydrophilic metronidazole crea...	3712Q-07001	1
Defektur	Hydrophilic metronidazole crea...	4012A-07001	1
Defektur	Hydrophilic metronidazole crea...	4112E-07001	1
Defektur	Hydrophilic metronidazole crea...	4612E-03387	1
Defektur	Hydrophilic metronidazole crea...	4812E-07001	1
Defektur	Hydrophilic metronidazole crea...	4912Q-07001	1
Defektur	Hydrophilic metronidazole crea...	813A-07001	1
Defektur	Hydrophilic metronidazole crea...	1613a-07001	1
Defektur	Hydrophilic metronidazole crea...	1813E-07001	1
Defektur	Hydrophilic metronidazole crea...	1813Q-07001	1
Defektur	Hydrophilic metronidazole crea...	1913A-07001	1
Defektur	Hydrophilic metronidazole crea...	2513q-07001	1
Defektur	Hydrophilic metronidazole crea...	2713E-07001	1
Eigenherstellung	Hydrophilic metronidazole crea...	912Q-07001	1
Gehe	Hydrophilic metronidazole crea...	2512Q-07001	2
Gehe	Hydrophilic metronidazole crea...	5112Q-07001	1
Gehe	Hydrophilic metronidazole crea...	1013Q-07001	1
Gehe	Hydrophilic metronidazole crea...	1213E-07001	2
Gehe	Hydrophilic metronidazole crea...	2813M-07001	1
Gehe	Hydrophilic metronidazole crea...	3613E-07001	1
Gehe	Hydrophilic metronidazole crea...	4813E-07001	1
Gehe	Hydrophilic metronidazole crea...	5513E-03387	1
Gehe	Hydrophilic metronidazole crea...	114M-07001	1
Phönix Gotha	Hydrophilic metronidazole crea...	4B190413	6
Caelo	Hydrophobic triclosan cream 1%...	S0211201.1	1
Caelo	Hydrophobic triclosan cream 1%...	S011503.1	1
Infectopham/Gehe	Hydrophobic triclosan cream 1%...	S021201.	1
Infectopharm	Hydrophobic triclosan cream 1%...	S031101.1	1
Infectopharm	Hydrophobic triclosan cream 1%...	20160712-1	1
Infectopharm	Hydrophobic triclosan cream 1%...	S091202.1	7
Infectopharm	Hydrophobic triclosan cream 1%...	S091203.1	8
InfectoPharm	Hydrophobic triclosan cream 1%...	S091103.1	3
InfectoPharm / 04.09....	Hydrophobic triclosan cream 1%...	S091104.1	1
Infectopharm,AHC	Hydrophobic triclosan cream 1%...	S101304.1	1
InfectoPharm/GEHE	Hydrophobic triclosan cream 1%...	S.091203.1	1
InfectoPharm/Phoenix	Hydrophobic triclosan cream 1%...	S021201.1	4
Phönix Gotha	Hydrophobic triclosan cream 1%...	S091201.1	1
Sanacorp, 1303.12 EK:...	Hydrophobic triclosan cream 1%...	S091102.1	1
Spangro/Infectopharm	Hydrophobic triclosan cream 1%...	S041301.1	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag	Hydrophobic triclosan cream 2%...	S021202.1	4
Anzag/Infectopharm	Hydrophobic triclosan cream 2%...	S091206.1	10
Caelo	Hydrophobic triclosan cream 2%...	2111310005	1
Caelo	Hydrophobic triclosan cream 2%...	3131-07001	1
Caesar & Loretz GmbH	Hydrophobic triclosan cream 2%...	S041303.1	3
Hedinger / Stumpf	Hydrophobic triclosan cream 2%...	S101209.1	13
infectopharm	Hydrophobic triclosan cream 2%...	S041302.1	3
Infectopharm	Hydrophobic triclosan cream 2%...	S021201.1	2
Infectopharm	Hydrophobic triclosan cream 2%...	S091109.1	2
Infectopharm	Hydrophobic triclosan cream 2%...	S0212041	1
Infectopharm	Hydrophobic triclosan cream 2%...	S101207.1	8
Infectopharm	Hydrophobic triclosan cream 2%...	S101208.1	12
Infectopharm	Hydrophobic triclosan cream 2%...	5101209.1	1
Infectopharm	Hydrophobic triclosan cream 2%...	s1012091	1
Infectopharm	Hydrophobic triclosan cream 2%...	S041301.1	7
Infectopharm	Hydrophobic triclosan cream 2%...	S04131011	1
Infectopharm	Hydrophobic triclosan cream 2%...	S031502.1	1
InfectoPharm / Gehe	Hydrophobic triclosan cream 2%...	S0413041	1
Infectopharm, Noweda	Hydrophobic triclosan cream 2%...	S021203.1	4
Infectopharm, Noweda	Hydrophobic triclosan cream 2%...	S0231204.1	1
Infectopharm/AHD	Hydrophobic triclosan cream 2%...	S1012209.1	1
InfectoPharm/Phönix	Hydrophobic triclosan cream 2%...	1101410005	1
Phönix Gotha	Hydrophobic triclosan cream 2%...	561069	1
Phönix/InfectoPharm	Hydrophobic triclosan cream 2%...	S021204.1	7
Phönix/InfectoPharm	Hydrophobic triclosan cream 2%...	S021205.1	5
Sanacorp	Hydrophobic triclosan cream 2%...	S031105.1	1
Alliance	Hydroxyethylcellulose gel (con...	13190401	10
Caelo	Hydroxyethylcellulose gel (con...	11341701	1
apomix	Hydroxyethylcellulose gel (con...	6B090312	1
apomix	Hydroxyethylcellulose gel (con...	24B070912	2
apomix	Hydroxyethylcellulose gel (con...	5B150213	3
apomix	Hydroxyethylcellulose gel (con...	9B120413	1
apomix	Hydroxyethylcellulose gel (con...	12B260413	1
apomix	Hydroxyethylcellulose gel (con...	13B260413	4
apomix	Hydroxyethylcellulose gel (con...	11B260413	1
apomix	Hydroxyethylcellulose gel (con...	16B310513	3
apomix	Hydroxyethylcellulose gel (con...	27B081113	1
apomix	Hydroxyethylcellulose gel (con...	6D230514	1
apomix	Hydroxyethylcellulose gel (con...	21C090813	1
apomix	Hydroxyethylcellulose gel (con...	2B270112	1
apomix	Hydroxyethylcellulose gel (con...	9C200412	1
apomix	Hydroxyethylcellulose gel (con...	14B080612	1
apomix	Hydroxyethylcellulose gel (con...	17B060712	1
apomix	Hydroxyethylcellulose gel (con...	5B090312	1
apomix	Hydroxyethylcellulose gel (con...	19B080713	1
apomix	Hydroxyethylcellulose gel (con...	10C120413	1
apomix	Hydroxyethylcellulose gel (con...	18B080713	2
Caelo	Hydroxyethylcellulose gel (con...	16061204	1
Caelo	Hydroxyethylcellulose gel (con...	15067801	1
Caelo	Hydroxyethylcellulose gel (con...	11341501	1
Caelo	Hydroxyethylcellulose gel (con...	22061204	1
Caelo	Hydroxyethylcellulose gel (con...	12071701	2
Caelo	Hydroxyethylcellulose gel (con...	20071204	1
Caelo	Hydroxyethylcellulose gel (con...	11363401	1
Caelo	Hydroxyethylcellulose gel (con...	14081202	1
Caelo	Hydroxyethylcellulose gel (con...	14081203	1
Caelo	Hydroxyethylcellulose gel (con...	12128201	2
Caelo	Hydroxyethylcellulose gel (con...	11341801	1
Caelo	Hydroxyethylcellulose gel (con...	12128001	4
Caelo	Hydroxyethylcellulose gel (con...	12128202	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Hydroxyethylcellulose gel (con...	25091209	1
Caelo	Hydroxyethylcellulose gel (con...	2101201	1
Caelo	Hydroxyethylcellulose gel (con...	2101203	1
Caelo	Hydroxyethylcellulose gel (con...	17101201	1
Caelo	Hydroxyethylcellulose gel (con...	17101206	1
Caelo	Hydroxyethylcellulose gel (con...	17101207	1
Caelo	Hydroxyethylcellulose gel (con...	26101205	1
Caelo	Hydroxyethylcellulose gel (con...	12244002	4
Caelo	Hydroxyethylcellulose gel (con...	10111202	1
Caelo	Hydroxyethylcellulose gel (con...	5121205	1
Caelo	Hydroxyethylcellulose gel (con...	21121201	1
Caelo	Hydroxyethylcellulose gel (con...	12320601	3
Caelo	Hydroxyethylcellulose gel (con...	29011301	1
Caelo	Hydroxyethylcellulose gel (con...	13021302	1
Caelo	Hydroxyethylcellulose gel (con...	13009501	10
Caelo	Hydroxyethylcellulose gel (con...	1219401	1
Caelo	Hydroxyethylcellulose gel (con...	26031306	1
Caelo	Hydroxyethylcellulose gel (con...	23041305	1
Caelo	Hydroxyethylcellulose gel (con...	11264501	1
Caelo	Hydroxyethylcellulose gel (con...	13009301	3
Caelo	Hydroxyethylcellulose gel (con...	6051303	1
Caelo	Hydroxyethylcellulose gel (con...	13084404	13
Caelo	Hydroxyethylcellulose gel (con...	6061307	1
Caelo	Hydroxyethylcellulose gel (con...	6061308	1
Caelo	Hydroxyethylcellulose gel (con...	29061301	1
Caelo	Hydroxyethylcellulose gel (con...	30071301	1
Caelo	Hydroxyethylcellulose gel (con...	13190901	3
Caelo	Hydroxyethylcellulose gel (con...	1319401	1
Caelo	Hydroxyethylcellulose gel (con...	4091303	1
Caelo	Hydroxyethylcellulose gel (con...	8101303	1
Caelo	Hydroxyethylcellulose gel (con...	15101311	1
Caelo	Hydroxyethylcellulose gel (con...	13190701	4
Caelo	Hydroxyethylcellulose gel (con...	14111307	1
Caelo	Hydroxyethylcellulose gel (con...	14111308	1
Caelo	Hydroxyethylcellulose gel (con...	21111304	1
Caelo	Hydroxyethylcellulose gel (con...	3786917	1
Caelo	Hydroxyethylcellulose gel (con...	6121301	1
Caelo	Hydroxyethylcellulose gel (con...	13286401	1
Caelo	Hydroxyethylcellulose gel (con...	11011402	1
Caelo	Hydroxyethylcellulose gel (con...	24011402	1
Caelo	Hydroxyethylcellulose gel (con...	13286801	2
Caelo	Hydroxyethylcellulose gel (con...	13393301	1
Caelo	Hydroxyethylcellulose gel (con...	14066401	2
Caelo	Hydroxyethylcellulose gel (con...	14066301	3
Caelo	Hydroxyethylcellulose gel (con...	14200101	2
Caelo	Hydroxyethylcellulose gel (con...	15067901	1
Caelo	Hydroxyethylcellulose gel (con...	16127002	1
Caelo	Hydroxyethylcellulose gel (con...	12219201	4
Caelo	Hydroxyethylcellulose gel (con...	12209201	1
Caelo	Hydroxyethylcellulose gel (con...	13084402	12
Caelo	Hydroxyethylcellulose gel (con...	13393201	1
Caelo	Hydroxyethylcellulose gel (con...	13009303	3
Caelo	Hydroxyethylcellulose gel (con...	13286101	7
Caelo	Hydroxyethylcellulose gel (con...	13286201	5
Caelo	Hydroxyethylcellulose gel (con...	13084403	10
Caelo	Hydroxyethylcellulose gel (con...	12071401	1
Caelo	Hydroxyethylcellulose gel (con...	12351501	3
Caelo	Hydroxyethylcellulose gel (con...	13190801	5
Caelo	Hydroxyethylcellulose gel (con...	13286301	3
Caelo	Hydroxyethylcellulose gel (con...	3286101	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Hydroxyethylcellulose gel (con...	13009401	3
Fagron	Hydroxyethylcellulose gel (con...	12351401	1
Gehe	Hydroxyethylcellulose gel (con...	22b070912	1
Caelo	Hydroxyethylcellulose gel (con...	12351502	3
Caelo	Hydroxyethylcellulose gel (con...	12320602	1
Caelo	Hydroxyethylcellulose gel (con...	13286601	5
Caelo	Hydroxyethylcellulose gel (con...	12071501	2
Phönix	Hydroxyethylcellulose gel (con...	13286702	1
Phönix Gotha	Hydroxyethylcellulose gel (con...	12244003	4
Phönix Gotha	Hydroxyethylcellulose gel (con...	12320501	8
PKH Halle	Hydroxyethylcellulose gel (con...	3B240113	1
Sanacorp	Hydroxyethylcellulose gel (con...	12127901	2
Sanacorp	Hydroxyethylcellulose gel (con...	12219401	6
Sanacorp	Hydroxyethylcellulose gel (con...	12309303	9
Sanacorp	Hydroxyethylcellulose gel (con...	13190501	8
Caelo	Hydroxyethylcellulose gel (con...	12219501	5
Sanacorp/ PKH Halle	Hydroxyethylcellulose gel (con...	8B050412	1
Sanacorp/ PKH Halle	Hydroxyethylcellulose gel (con...	10B200412	1
Caelo	Hydroxyethylcellulose gel (con...	12219302	4
AMH Niemann GmbH& Co....	Hydroxyethylcellulose gel 4%	7B040313	1
AMH Niemann GmbH& Co....	Hydroxyethylcellulose gel 4%	13B310513	1
AMH-Niemann GmbH & Co...	Hydroxyethylcellulose gel 4%	2C270112	1
AMH-Niemann GmbH & Co...	Hydroxyethylcellulose gel 4%	1B270112	1
AMH-Niemann GmbH & Co...	Hydroxyethylcellulose gel 4%	6C090312	1
AMH-Niemann GmbH & Co...	Hydroxyethylcellulose gel 4%	10B200412	1
apomix	Hydroxyethylcellulose gel 4%	17B080713	2
apomix	Hydroxyethylcellulose gel 4%	14B310513	1
apomix	Hydroxyethylcellulose gel 4%	5B060717	1
apomix	Hydroxyethylcellulose gel 4%	19B141011	1
apomix	Hydroxyethylcellulose gel 4%	22B281011	1
apomix	Hydroxyethylcellulose gel 4%	5B090312	3
apomix	Hydroxyethylcellulose gel 4%	15B060712	1
apomix	Hydroxyethylcellulose gel 4%	14B080612	1
apomix	Hydroxyethylcellulose gel 4%	26B301112	1
apomix	Hydroxyethylcellulose gel 4%	6B040313	2
apomix	Hydroxyethylcellulose gel 4%	16B080713	1
apomix	Hydroxyethylcellulose gel 4%	21C060913	2
apomix	Hydroxyethylcellulose gel 4%	11B120413	1
apomix	Hydroxyethylcellulose gel 4%	19B090813	1
Caesar & Loretz/ Noweda	Hydroxyethylcellulose gel 4%	5B150213	1
PKH Halle/ Alliance H.	Hydroxyethylcellulose gel 4%	18B090813	4

Supplier	Substance	Batch	Spectra
Caelo	Iodine tincture	9356601	1
Caelo	Iodine tincture	5021308	1
Caelo	Iodine tincture	12285902	1
Caelo	Iodine tincture	12285901	1
Caelo	Iodine tincture	12285903	1
Caelo	Iodine tincture	11303104	1
Caelo	Iodine tincture	28061302	1
Caelo	Iodine tincture	1071303	1
Caelo	Iodine tincture	2101302	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Iodine tincture	13193501	1
Caelo	Iodine tincture	14111309	1
Caelo	Iodine tincture	13193502	1
Caelo	Iodine tincture	24011405	1
Caelo	Iodine tincture	5021402	1
Caelo	Iodine tincture	12285906	3
Fagron	Iodine tincture	11309402	1
Caelo	Iodine tincture	13193503	1

Supplier	Substance	Batch	Spectra
Otto Fischar GmbH & C...	Lactic acid 80% L(+)	20020271	1
Phönix Gotha	Lactic acid 80% L(+)	2002071	2
Caelo	Lard	11263707	1
Caelo	Lard	11263714	1
Caelo	Lard	11379606	1
Caelo	Lard	11263706	1
Caelo	Lard	11263715	1
Caelo	Lard	11379605	2
Caesar&loretz,Phoenix	Lard	11095310	1
Caelo	Lavender spirit	13166502	1
Caelo	Lavender spirit	13300803	2
dhu	Lavender spirit	1041012	4
Caelo	Lime water	13028602	1

Supplier	Substance	Batch	Spectra
Caelo	Macadamia oil, refined	13012104	1
Caelo	Macadamia oil, refined	13012106	1
Caelo	Macadamia oil, refined	14179304	2
Caelo	Macadamia oil, refined	16074404	1
Caelo	Macadamia oil, refined	17176507	1
Caelo	Macadamia oil, refined	17055604	1
Primavera	Macadamia oil, refined	58C24	1
Spinnrad	Macadamia oil, refined	117301241	1
Taoasis	Macadamia oil, refined	128991	1
Taosis	Macadamia oil, refined	4976601-92844	1
Maros	Marian thistle fruit mother ti...	U3762	2
Caelo	Marian thistle seed tincture (...	11061110	1
Caelo	Marian thistle seed tincture (...	12043822	1
Caelo	Marian thistle seed tincture (...	13044304	1
Caelo	Matricaria flower tincture (70...	13044206	1
Caelo	Matricaria flower tincture (70...	9061201	1
Caelo	Matricaria flower tincture (70...	3081201	1
Caelo	Matricaria flower tincture (70...	24091208	1
Caelo	Matricaria flower tincture (70...	11011303	1
Caelo	Matricaria flower tincture (70...	11011307	1
Caelo	Matricaria flower tincture (70...	11269917	2
Caelo	Matricaria flower tincture (70...	11269920	4
Caelo	Matricaria flower tincture (70...	3051310	1
Caelo	Matricaria flower tincture (70...	11269911	1
Caelo	Matricaria flower tincture (70...	13142803	1
Caelo	Matricaria flower tincture (70...	13044202	1
Caelo	Matricaria flower tincture (70...	12111305	1
Caelo	Matricaria flower tincture (70...	14078402	1
Caelo	Matricaria flower tincture (70...	11269924	1
Caelo	Matricaria flower tincture (70...	11269905	1
Caelo	Matricaria liquid extract	11303606	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Matricaria liquid extract	12254801	2
Caelo	Matricaria liquid extract	12360303	2
Caelo	Matricaria liquid extract	12360310	3
Caelo	Matricaria liquid extract	10382713	1
Caelo	Matricaria liquid extract	12360306	1
Maros	Matricaria liquid extract	6990	3
aliance healthcare	Matricaria oil, fat	13204306	2
Caelo	Matricaria oil, fat	11261506	1
Caelo	Matricaria oil, fat	12189803	2
Caelo	Matricaria oil, fat	12372903	5
Caelo	Matricaria oil, fat	1218903	1
Caesar & Lorenz	Matricaria oil, fat	13204304	2
Maros	Melissa leaf liquid extract 1:1	6399	3
Caelo	Melissa leaf tincture (70%) 1:5	10105412	1
Caelo	Melissa leaf tincture (70%) 1:5	12206201	3
Caelo	Melissa leaf tincture (70%) 1:5	11102812	1
Caelo	Melissa leaf tincture (70%) 1:5	12206205	4
Caelo	Melissa leaf tincture (70%) 1:5	11011305	1
Caelo	Melissa leaf tincture (70%) 1:5	3051308	1
Caelo	Melissa leaf tincture (70%) 1:5	12206214	6
Caelo	Melissa leaf tincture (70%) 1:5	1206214	1
Caelo	Melissa leaf tincture (70%) 1:5	27111307	1
Caelo	Melissa leaf tincture (70%) 1:5	5121303	1
Caelo	Melissa leaf tincture (70%) 1:5	12233609	2
Caelo	Melissa leaf tincture (70%) 1:5	1233609	1
Caelo	Melissa leaf tincture (70%) 1:5	1223612	1
Caelo	Melissa leaf tincture (70%) 1:5	12233612	1
Caelo	Melissa leaf tincture (70%) 1:5	12206218	5
Caelo	Methoxsalen 0.006% Cordes® RK	18D014	1
Gehe	Methoxsalen 0.006% Cordes® RK	13D004A	1
Gehe	Methoxsalen 0.006% Cordes® RK	13D004B	1
Ichthyol	Methoxsalen 0.006% Cordes® RK	130004	2
Ichthyol	Methoxsalen 0.006% Cordes® RK	14D001	1
Ichthyol Gesellschaft	Methoxsalen 0.006% Cordes® RK	12D011	5
Ichthyol- Gesellschaft	Methoxsalen 0.006% Cordes® RK	13D013	7
ICHTHYOL/ahp	Methoxsalen 0.006% Cordes® RK	13d004	1
Ichthyol/Gehe	Methoxsalen 0.006% Cordes® RK	13D004	29
Sanacorp/Ichthyol	Methoxsalen 0.006% Cordes® RK	13D013	1
AMH Niemann	Methylrosanilinium chloride so...	3A060612	1
AMH Niemann GmbH & Co...	Methylrosanilinium chloride so...	1b140213	1
Anzag	Methylrosanilinium chloride so...	5A200712	1
Anzag	Methylrosanilinium chloride so...	1A140213	2
apomix	Methylrosanilinium chloride so...	2B260413	1
apomix	Methylrosanilinium chloride so...	2B290312	1
apomix	Methylrosanilinium chloride so...	1B260413	1
apomix	Methylrosanilinium chloride so...	4B200712	1
Leyhs/Noweda	Methylrosanilinium chloride so...	124141	1
Phoenix (PKH Halle)	Methylrosanilinium chloride so...	4A200712	1
apomix	Metronidazole 10% (non-ionic, ...	48170413	1
apomix	Metronidazole 10% (non-ionic, ...	5b150513	1
apomix	Metronidazole 10% (non-ionic, ...	38110313	1
apomix	Metronidazole 10% (non-ionic, ...	5B150513	1
apomix	Metronidazole 10% (non-ionic, ...	3B070417	1
Spangropharm	Metronidazole 10% (non-ionic, ...	8B211013	3
Phoenix (PKH Halle)	Metronidazole 10% (non-ionic, ...	11B251012	1
Phoenix (PKH Halle)	Metronidazole 10% (non-ionic, ...	1B020113	1
Caelo	Myrrh tincture (90%) 1:5	11019810	1
Caelo	Myrrh tincture (90%) 1:5	3101212460	1
Caelo	Myrrh tincture (90%) 1:5	2704212460	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Myrrh tincture (90%) 1:5	11260916	3
Caelo	Myrrh tincture (90%) 1:5	24081209	1
Caelo	Myrrh tincture (90%) 1:5	11019809	1
Caelo	Myrrh tincture (90%) 1:5	11260918	1
Caelo	Myrrh tincture (90%) 1:5	1910211095	1
Caelo	Myrrh tincture (90%) 1:5	12197103	2
Caelo	Myrrh tincture (90%) 1:5	20111214	1
Caelo	Myrrh tincture (90%) 1:5	12197104	2
Caelo	Myrrh tincture (90%) 1:5	20101012-1	1
Caelo	Myrrh tincture (90%) 1:5	12197105	10
Caelo	Myrrh tincture (90%) 1:5	12197106	1
Caelo	Myrrh tincture (90%) 1:5	2002312460	1
Caelo	Myrrh tincture (90%) 1:5	12197205	4
Caelo	Myrrh tincture (90%) 1:5	2913M2460	1
Caelo	Myrrh tincture (90%) 1:5	12197303	15
Caelo	Myrrh tincture (90%) 1:5	12197305	7
Caelo	Myrrh tincture (90%) 1:5	13273303	4
Caelo	Myrrh tincture (90%) 1:5	13273404	1
Caelo	Myrrh tincture (90%) 1:5	13273308	4
Caelo	Myrrh tincture (90%) 1:5	14244206	1
Caelo	Myrrh tincture (90%) 1:5	15110504	1
Caelo	Myrrh tincture (90%) 1:5	11260909	3
Caelo	Myrrh tincture (90%) 1:5	12197107	2
Caelo	Myrrh tincture (90%) 1:5	12197112	2
Caelo	Myrrh tincture (90%) 1:5	13273301	5
Caelo	Myrrh tincture (90%) 1:5	13273302	8
Caelo	Myrrh tincture (90%) 1:5	11260914	3
Caelo	Myrrh tincture (90%) 1:5	230312	1
Caelo	Myrrh tincture (90%) 1:5	45132U2460	1
Caelo	Myrrh tincture (90%) 1:5	614M2460	1
Caelo	Myrrh tincture (90%) 1:5	11260908	1
Caesar/Noweda	Myrrh tincture (90%) 1:5	12197204	2
Hetterich/Teofarma	Myrrh tincture (90%) 1:5	139101	1
Noweda	Myrrh tincture (90%) 1:5	1219104	1
Caelo	Myrrh tincture (90%) 1:5	133273301	1

Supplier	Substance	Batch	Spectra
Caelo	Nettle root tincture (70%) 1:5	11187409	1
Caelo	Nettle root tincture (70%) 1:5	12341302	1
Caelo	Nettle tincture (70%) 1:5	1108810	1
Caelo	Nettle tincture (70%) 1:5	11108810	1

Supplier	Substance	Batch	Spectra
Anzag	Opium tincture, standardised	12006212	17
Caelo	Opium tincture, standardised	12162608	1
Caelo	Opium tincture, standardised	12380302	1
Caelo	Opium tincture, standardised	13144005	2
Caelo	Opium tincture, standardised	13144004	1
Caelo	Opium tincture, standardised	13394902	1
Caelo	Opium tincture, standardised	5005712	6
Caelo	Opium tincture, standardised	12162606	1
Caelo	Opium tincture, standardised	22031302	1
Caelo	Opium tincture, standardised	30031301	1
Caelo	Opium tincture, standardised	8061301	1
Caelo	Opium tincture, standardised	3071303	1
Caelo	Opium tincture, standardised	25071302	1
Caelo	Opium tincture, standardised	12121305	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Opium tincture, standardised	16121304	1
Caelo	Opium tincture, standardised	10011404	1
Caelo	Opium tincture, standardised	24011406	1
Caelo	Opium tincture, standardised	13260602	1
Caelo	Opium tincture, standardised	14108504	1
Caelo	Opium tincture, standardised	14108510	1
Caelo	Opium tincture, standardised	6009916	1
Caelo	Opium tincture, standardised	16330406	1
Caelo	Opium tincture, standardised	17227201	1
Caelo	Opium tincture, standardised	12380307	1
Caelo	Opium tincture, standardised	13144011	1
Caelo	Opium tincture, standardised	12162602	1
Eigenherstellung	Opium tincture, standardised	70613PML01	2
Fagron	Opium tincture, standardised	9006012/Maros	1
Gehe	Opium tincture, standardised	6006713	28
Gehe	Opium tincture, standardised	5007714	1
Gehe	Opium tincture, standardised	6007814	2
Gehe	Opium tincture, standardised	7007914	1
Gehe/Maros	Opium tincture, standardised	11006112	16
Maros	Opium tincture, standardised	4005612	3
Maros	Opium tincture, standardised	8005812	7
Maros	Opium tincture, standardised	9006012	15
Maros	Opium tincture, standardised	15031302	1
Maros	Opium tincture, standardised	1006313	15
Maros	Opium tincture, standardised	13071303	1
Maros	Opium tincture, standardised	2004511	1
Maros	Opium tincture, standardised	11007213	8
Maros	Opium tincture, standardised	4007614	3
Maros	Opium tincture, standardised	3007514	2
Maros	Opium tincture, standardised	5008715	2
Maros	Opium tincture, standardised	11008214	1
Maros	Opium tincture, standardised	7008915	1
Maros	Opium tincture, standardised	8009015	2
Maros	Opium tincture, standardised	10009115	2
Maros	Opium tincture, standardised	2009416	2
Maros	Opium tincture, standardised	3009616	1
Maros	Opium tincture, standardised	4009716	1
MAROS	Opium tincture, standardised	3005512	1
MAROS	Opium tincture, standardised	4010817	1
Maros Arznei GmbH	Opium tincture, standardised	8006913	25
Maros Arznei GmbH	Opium tincture, standardised	11007113	8
MAROS Arznei GmbH	Opium tincture, standardised	7006813	16
Maros Arznei GmbH/Anzag	Opium tincture, standardised	2005412	1
Maros/Gehe	Opium tincture, standardised	5006613	27
Maros/Gehe	Opium tincture, standardised	10007013	11
Maros/N/010.06.13/PZN...	Opium tincture, standardised	4006513	32
Maros/Phoenix	Opium tincture, standardised	60066713	1
Noweda	Opium tincture, standardised	1106112	2
Caelo	Opium tincture, standardised	13144010	2
Phönix	Opium tincture, standardised	2006413	23
sanacorp	Opium tincture, standardised	9005912	3
Sanacorp	Opium tincture, standardised	60006713	1
Caelo	Orange flower oil, artificial	11232005	3
Caelo	Orange flower oil, artificial	13154801	1
Caelo	Orange flower oil, artificial	13121302	1
Caelo	Orange flower oil, artificial	15344904	1
Caelo	Orange flower oil, artificial	13154804	1
Noweda	Orange flower oil, artificial	10267805	1
Caelo	Orange flower oil, artificial		1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Anzag 26.11.12 ek:3,35	Orange flower water	12171703	1
Caelo	Orange flower water	1235606	1
Caelo	Orange flower water	11327301	2
Caelo	Orange flower water	12119103	1
Caelo	Orange flower water	12359606	3
Caelo	Orange flower water	1339301	1
Caelo	Orange flower water	13339301	1
Caelo	Orange flower water	14156804	1
Caelo	Orange flower water	12328604	2
Caelo	Orange flower water	12328602	1
Caelo	Orange flower water	13339302	2
Caelo	Orange flower water	13057302	2
Caelo	Orange flower water	13096605	3
Sanacorp	Orange flower water	AKD34	1
Caelo	Orange flower water	12359605	2
AMH Niemann/G	Oxytetracycline ointment SR	2C160212	1
AMH Niemann/G	Oxytetracycline ointment SR	4C300712	1
AMH Niemann/G	Oxytetracycline ointment SR	1B200313	1
apomix	Oxytetracycline ointment SR	1A160212	1
Defektur	Oxytetracycline ointment SR	49/12	1
Defektur	Oxytetracycline ointment SR	55/12	1
Defektur	Oxytetracycline ointment SR	8/13	1
Defektur	Oxytetracycline ointment SR	12/13	1
Defektur	Oxytetracycline ointment SR	25/13	1
Defektur	Oxytetracycline ointment SR	41/13	1
Defektur	Oxytetracycline ointment SR	43/13	1
Defektur	Oxytetracycline ointment SR	50/13	1
Pharmachem	Oxytetracycline ointment SR	230113	1
Pharmachem	Oxytetracycline ointment SR	140212	2

Supplier	Substance	Batch	Spectra
Gehrlicher	Pansy mother tincture	RU1775	1
ACM	Paraffin, liquid	KNC2106J14	1
ACM	Paraffin, liquid	KNC2160J14	1
AHD	Paraffin, liquid	171707002/01	1
AHD	Paraffin, liquid	1506005-02	9
AHD	Paraffin, liquid	1710025-01	30
AHD	Paraffin, liquid	1000002996	2
AHD	Paraffin, liquid	100002996	1
AHD	Paraffin, liquid	17321510	22
AHD	Paraffin, liquid	181770005	1
Euro OTC	Paraffin, liquid	160703-01	1
Caelo	Paraffin, liquid	15293204	17
Caelo	Paraffin, liquid	17062001	52
Allergika Pharma GmbH	Paraffin, liquid	12/10	1
Allergika Pharma GmbH	Paraffin, liquid	8/06	1
Allergika Pharma GmbH	Paraffin, liquid	18/112023	1
Caelo	Paraffin, liquid	16082904	22
anzag	Paraffin, liquid	1509011-01	9
Anzag	Paraffin, liquid	1810002-01	35
Caelo	Paraffin, liquid	14059708	6
Caelo	Paraffin, liquid	14202507	9
Euro OTC	Paraffin, liquid	1257028	2
Beiersdorf	Paraffin, liquid	30841410	1
Bombastus	Paraffin, liquid	298396	2
Bombastus	Paraffin, liquid	300061	2
Bombastus	Paraffin, liquid	266032	1
Bombastus	Paraffin, liquid	260652	1
Bombastus	Paraffin, liquid	263350	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Paraffin, liquid	272590	2
Bombastus	Paraffin, liquid	281540	2
Bombastus	Paraffin, liquid	14187601	1
Bombastus	Paraffin, liquid	288827	2
Bombastus	Paraffin, liquid	290824	2
Bombastus	Paraffin, liquid	292137	2
Bombastus	Paraffin, liquid	294568	1
Bombastus	Paraffin, liquid	295576	1
Bombastus	Paraffin, liquid	295576	4
Bombastus	Paraffin, liquid	308476	9
Bombastus	Paraffin, liquid	18000358	7
Bombastus	Paraffin, liquid	18005175	8
Bombastus	Paraffin, liquid	19001235	6
Bombastus	Paraffin, liquid	146(18000358)	1
Bombastus	Paraffin, liquid	147(18002494)	1
Bombastus	Paraffin, liquid	148(18002494)	1
Bombastus	Paraffin, liquid	149(18005175)	1
Bombastus	Paraffin, liquid	150(18005175)	1
Bombastus	Paraffin, liquid	151(19001235)	1
Bombastus	Paraffin, liquid	281540	1
Bombastus	Paraffin, liquid	19004134	1
Bombastus	Paraffin, liquid	274958	7
Bombastus	Paraffin, liquid	284273	1
Bombastus	Paraffin, liquid	284273	2
Bombastus	Paraffin, liquid	293385	2
Bombastus	Paraffin, liquid	142(308476)	1
Bombastus	Paraffin, liquid	144(18000358)	1
Bombastus	Paraffin, liquid	306312	5
Bombastus	Paraffin, liquid	143(310779)	1
Bombastus	Paraffin, liquid	17360403	17
Bombastus	Paraffin, liquid	301968	2
Bombastus	Paraffin, liquid	301958	1
Bombastus	Paraffin, liquid	6861849	1
Bombastus	Paraffin, liquid	310779	7
Caelo	Paraffin, liquid	11354102	9
Caelo	Paraffin, liquid	17321507	4
Caelo	Paraffin, liquid	1817702	1
Caelo	Paraffin, liquid	10162009	1
Caelo	Paraffin, liquid	11207702	2
Caelo	Paraffin, liquid	9320905	1
Caelo	Paraffin, liquid	11263606	3
Caelo	Paraffin, liquid	10071202	1
Caelo	Paraffin, liquid	2111202	1
Caelo	Paraffin, liquid	221108111F30-N0	1
Caelo	Paraffin, liquid	12042205	6
Caelo	Paraffin, liquid	20210312-4	1
Caelo	Paraffin, liquid	14011303	1
Caelo	Paraffin, liquid	1601312050	1
Caelo	Paraffin, liquid	12227701	8
Caelo	Paraffin, liquid	11092703	1
Caelo	Paraffin, liquid	715I-02050	1
Caelo	Paraffin, liquid	19021302	1
Caelo	Paraffin, liquid	12324304	2
Caelo	Paraffin, liquid	10162002	1
Caelo	Paraffin, liquid	10364703	1
Caelo	Paraffin, liquid	2103312050	1
Caelo	Paraffin, liquid	12227610	1
Caelo	Paraffin, liquid	1913Q-02050	1
Caelo	Paraffin, liquid	13005805	15
Caelo	Paraffin, liquid	1234307	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, liquid	0000000	1
Caelo	Paraffin, liquid	11071302	1
Caelo	Paraffin, liquid	3213Q2050	1
Caelo	Paraffin, liquid	12227602	1
Caelo	Paraffin, liquid	13005205	1
Caelo	Paraffin, liquid	13005806	1
Caelo	Paraffin, liquid	13232903	8
Caelo	Paraffin, liquid	83054508	1
Caelo	Paraffin, liquid	13232902	14
Caelo	Paraffin, liquid	27011405	1
Caelo	Paraffin, liquid	16061203	1
Caelo	Paraffin, liquid	10062014A	1
Caelo	Paraffin, liquid	10071403	1
Caelo	Paraffin, liquid	40956810	1
Caelo	Paraffin, liquid	14059701	8
Caelo	Paraffin, liquid	14059708	4
Caelo	Paraffin, liquid	14044504	2
Caelo	Paraffin, liquid	14059703	3
Caelo	Paraffin, liquid	14059703	5
Caelo	Paraffin, liquid	14044507	3
Caelo	Paraffin, liquid	13248006	2
Caelo	Paraffin, liquid	14059701	1
Caelo	Paraffin, liquid	14141408	1
Caelo	Paraffin, liquid	1420509	2
Caelo	Paraffin, liquid	14011514	1
Caelo	Paraffin, liquid	7315971	1
Caelo	Paraffin, liquid	14035904	1
Caelo	Paraffin, liquid	14163804	2
Caelo	Paraffin, liquid	14357203	12
Caelo	Paraffin, liquid	14305904	1
Caelo	Paraffin, liquid	13103308	1
Caelo	Paraffin, liquid	15106101	8
Caelo	Paraffin, liquid	14163807	3
Caelo	Paraffin, liquid	4091515	1
Caelo	Paraffin, liquid	151060104	1
Caelo	Paraffin, liquid	25092015	1
Caelo	Paraffin, liquid	15106109	2
Caelo	Paraffin, liquid	15293203	17
Caelo	Paraffin, liquid	15106107	16
Caelo	Paraffin, liquid	15293205	29
Caelo	Paraffin, liquid	15106107	1
Caelo	Paraffin, liquid	152345063	1
Caelo	Paraffin, liquid	15293202	15
Caelo	Paraffin, liquid	15293201	12
Caelo	Paraffin, liquid	13232902	1
Caelo	Paraffin, liquid	13103309	3
Caelo	Paraffin, liquid	15336703	15
Caelo	Paraffin, liquid	15923205	1
Caelo	Paraffin, liquid	15293202	1
Caelo	Paraffin, liquid	15234504	1
Caelo	Paraffin, liquid	1593205	1
Caelo	Paraffin, liquid	15336702	2
Caelo	Paraffin, liquid	15234506	6
Caelo	Paraffin, liquid	15429606	1
Caelo	Paraffin, liquid	15230601	1
Caelo	Paraffin, liquid	1235465	1
Caelo	Paraffin, liquid	17293204	1
Caelo	Paraffin, liquid	160829	1
Caelo	Paraffin, liquid	16149802	26
Caelo	Paraffin, liquid	15429610	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, liquid	16082908	21
Caelo	Paraffin, liquid	1604009-01	13
Caelo	Paraffin, liquid	Test1234	1
Caelo	Paraffin, liquid	16149801	28
Caelo	Paraffin, liquid	1608294	1
Caelo	Paraffin, liquid	15429611	1
Caelo	Paraffin, liquid	16171002	4
Caelo	Paraffin, liquid	16171001	20
Caelo	Paraffin, liquid	16238803	19
Caelo	Paraffin, liquid	16171003	1
Caelo	Paraffin, liquid	16238804	2
Caelo	Paraffin, liquid	160822907	1
Caelo	Paraffin, liquid	161710	1
Caelo	Paraffin, liquid	9041705	1
Caelo	Paraffin, liquid	16171009	2
Caelo	Paraffin, liquid	16238808	25
Caelo	Paraffin, liquid	16171008	7
Caelo	Paraffin, liquid	12345	1
Caelo	Paraffin, liquid	16171010	2
Caelo	Paraffin, liquid	16E30-B05-325889	5
Caelo	Paraffin, liquid	16238815	7
Caelo	Paraffin, liquid	17062001	4
Caelo	Paraffin, liquid	17047606	1
Caelo	Paraffin, liquid	17047604	2
Caelo	Paraffin, liquid	12312	1
Caelo	Paraffin, liquid	15111739	1
Caelo	Paraffin, liquid	17062005	29
Caelo	Paraffin, liquid	17062007	44
Caelo	Paraffin, liquid	17321501	82
Caelo	Paraffin, liquid	17196002	2
Caelo	Paraffin, liquid	17196001	19
Caelo	Paraffin, liquid	170620055518	1
Caelo	Paraffin, liquid	17D28-B01-340148	4
Caelo	Paraffin, liquid	17J02-B01-343565	4
Caelo	Paraffin, liquid	30041805	1
Caelo	Paraffin, liquid	18048103	5
Caelo	Paraffin, liquid	17360401	1
Caelo	Paraffin, liquid	17321505	34
Caelo	Paraffin, liquid	180718P	1
Caelo	Paraffin, liquid	18048104	1
Caelo	Paraffin, liquid	17360405	2
Caelo	Paraffin, liquid	1000007838	5
Caelo	Paraffin, liquid	15121804	1
Caelo	Paraffin, liquid	18I13-B01	1
Caelo	Paraffin, liquid	17360412	1
Caelo	Paraffin, liquid	18080510	1
Caelo	Paraffin, liquid	18177007	42
Caelo	Paraffin, liquid	17360411	1
Caelo	Paraffin, liquid	1817705	1
Caelo	Paraffin, liquid	19010302	66
Caelo	Paraffin, liquid	18177008	45
Caelo	Paraffin, liquid	18177003	2
Caelo	Paraffin, liquid	17360416	1
Caelo	Paraffin, liquid	19010302	1
Caelo	Paraffin, liquid	17360419	1
Caelo	Paraffin, liquid	P-598	1
Caelo	Paraffin, liquid	10910302	1
Caelo	Paraffin, liquid	17360420	1
Caelo	Paraffin, liquid	173600414	1
Caelo	Paraffin, liquid	1901303	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, liquid	19010313	8
Caelo	Paraffin, liquid	19010315	9
Caelo	Paraffin, liquid	190100307	1
Caelo	Paraffin, liquid	19010310	1
Caelo	Paraffin, liquid	19010316	3
Caelo	Paraffin, liquid	19120303	1
Caelo	Paraffin, liquid	192559004	6
Caelo	Paraffin, liquid	192559007	2
Caelo	Paraffin, liquid	192559011	2
Caelo	Paraffin, liquid	CH-B17321401	1
Caelo	Paraffin, liquid	13390606	1
Caelo	Paraffin, liquid	12109603	2
Caelo	Paraffin, liquid	13390604	1
Caelo	Paraffin, liquid	14059705	1
Caelo	Paraffin, liquid	17321401-20180206Ma7	1
Caelo	Paraffin, liquid	12227609	3
Caelo	Paraffin, liquid	14163807	22
Caelo	Paraffin, liquid	170620008	1
Caelo	Paraffin, liquid	17321509	43
Caelo	Paraffin, liquid	1608204	1
Caelo	Paraffin, liquid	Ch.-B.:19010302	1
Caelo	Paraffin, liquid	B18177008	1
Caelo	Paraffin, liquid	11H04-N02	1
Caelo	Paraffin, liquid	15106102	2
Caelo	Paraffin, liquid	18177001	79
Caelo	Paraffin, liquid	1205033-01	1
Caelo	Paraffin, liquid	16238808(1)	1
Caelo	Paraffin, liquid	16238808(2)	1
Caelo	Paraffin, liquid	16238808(3)	1
Caelo	Paraffin, liquid	16238808(4)	1
Caelo	Paraffin, liquid	15336704	18
Caelo	Paraffin, liquid	19120301P-200602-6	1
Caelo	Paraffin, liquid	13050102	20
Caelo	Paraffin, liquid	16149801,20161112Ma7	1
Caelo	Paraffin, liquid	18177004	50
Caelo	Paraffin, liquid	1811Q-02050	1
Caelo	Paraffin, liquid	15106104	12
Caelo	Paraffin, liquid	18177005	67
Caelo	Paraffin, liquid	15299201	1
Caelo	Paraffin, liquid	14202509	5
Caelo	Paraffin, liquid	13390602	1
Caelo	Paraffin, liquid	12102101	9
Caelo	Paraffin, liquid	13131704	1
Caelo	Paraffin, liquid	14202509	6
Caelo	Paraffin, liquid	14357203	1
Caelo	Paraffin, liquid	1960017	1
Caelo	Paraffin, liquid	17047610	2
Caelo	Paraffin, liquid	113544102	1
Caelo	Paraffin, liquid	1437205	1
Caelo	Paraffin, liquid	17062002	9
Caelo	Paraffin, liquid	1135412	1
Caelo	Paraffin, liquid	17321401	31
Caelo	Paraffin, liquid	191203003	1
Caelo	Paraffin, liquid	14141406	1
Caelo	Paraffin, liquid	14305904	7
Caelo	Paraffin, liquid	3613A-02050	1
Caelo	Paraffin, liquid	15429603	15
Caelo	Paraffin, liquid	1721503	1
Caelo	Paraffin, liquid	145(18000358)	1
Caelo	Paraffin, liquid	12H27-N01	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, liquid	1304010-01	4
Caelo	Paraffin, liquid	214U-02050	1
Caelo	Paraffin, liquid	13248007	8
Caelo	Paraffin, liquid	13390601	7
Caelo	Paraffin, liquid	1309022-02	2
Caelo	Paraffin, liquid	14134601	1
Caelo	Paraffin, liquid	14357204	4
Caelo	Paraffin, liquid	16/080/P	1
Caelo	Paraffin, liquid	15234505	2
Caelo	Paraffin, liquid	1607039-01	1
Caelo	Paraffin, liquid	16238812	3
Caelo	Paraffin, liquid	13321401	1
Caelo	Paraffin, liquid	17321506	55
Caelo	Paraffin, liquid	17360404	4
Caelo	Paraffin, liquid	1817004	1
Caelo	Paraffin, liquid	19271402	5
Caelo	Paraffin, liquid	1114U02050	1
Caelo	Paraffin, liquid	19010303	37
Caelo	Paraffin, liquid	17321503	46
Caelo	Paraffin, liquid	14357204	14
Caelo	Paraffin, liquid	150600501	3
Caelo	Paraffin, liquid	1322902	1
Caelo	Paraffin, liquid	14163804	9
Caelo	Paraffin, liquid	1307007-01	1
Caelo	Paraffin, liquid	14357201	1
Caelo	Paraffin, liquid	15293209	1
Caelo	Paraffin, liquid	12324307	1
Caelo	Paraffin, liquid	16082905	18
Caelo	Paraffin, liquid	16149806	2
Caelo	Paraffin, liquid	161001701	1
Caelo	Paraffin, liquid	16238809	1
Caelo	Paraffin, liquid	170105185	1
Caelo	Paraffin, liquid	17062009	1
Caelo	Paraffin, liquid	518Q-02050	1
Caelo	Paraffin, liquid	17062008	1
Caelo	Paraffin, liquid	16255101	1
Caelo	Paraffin, liquid	16238802	1
Caelo	Paraffin, liquid	16238806	57
Caelo	Paraffin, liquid	16238807	10
Caelo	Paraffin, liquid	1628806	1
Caelo	Paraffin, liquid	16238813	17
Caelo	Paraffin, liquid	1732506	1
Caelo	Paraffin, liquid	800308301	1
Caelo	Paraffin, liquid	19010307	17
Caelo	Paraffin, liquid	19120304	1
Caelo	Paraffin, liquid	271214A	1
Caelo	Paraffin, liquid	1435905	2
Caelo	Paraffin, liquid	14D24-B05-295022	10
Caelo	Paraffin, liquid	14357205	10
Caelo	Paraffin, liquid	14D24B05-295022	1
Caelo	Paraffin, liquid	16082907	21
Caelo	Paraffin, liquid	160820907	1
Caelo	Paraffin, liquid	CH:201LEK:5,31	1
Caelo	Paraffin, liquid	2316E-02050	1
Caelo	Paraffin, liquid	16228808	1
Caelo	Paraffin, liquid	16238860	1
Caelo	Paraffin, liquid	17321506	1
Caelo	Paraffin, liquid	18177002	27
Caelo	Paraffin, liquid	4817M-02050	1
Caelo	Paraffin, liquid	17360409	20

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Paraffin, liquid	19010303	1
Caelo	Paraffin, liquid	192559003	5
Caelo	Paraffin, liquid	13232901	15
Caelo	Paraffin, liquid	13131705	17
Caelo	Paraffin, liquid	12295601	1
Caelo	Paraffin, liquid	12324306	1
Caelo	Paraffin, liquid	13390602	20
Caelo	Paraffin, liquid	14044507	4
Caelo	Paraffin, liquid	13390604	1
Caelo	Paraffin, liquid	14202507	2
Caelo	Paraffin, liquid	14141408	2
Caelo	Paraffin, liquid	15106109	10
Caelo	Paraffin, liquid	180104101	1
Caelo	Paraffin, liquid	170476	1
Caelo	Paraffin, liquid	417A-02050	1
Caelo	Paraffin, liquid	192559012	1
Caelo	Paraffin, liquid	20002999003	1
Caelo	Paraffin, liquid	4112M-02048	1
Caelo	Paraffin, liquid	2213A-02050	1
Caesar & Loretz / All...	Paraffin, liquid	18048102	32
Caesar & Loretz GmbH	Paraffin, liquid	5425	1
Caesar & Loretz GmbH	Paraffin, liquid	19010301	1
Caesar & Loretz GmbH	Paraffin, liquid	19010304	28
Caesar & Loretz GmbH	Paraffin, liquid	17360414	16
Caesar & Loretz GmbH	Paraffin, liquid	19120301	5
Caesar & Loretz GmbH	Paraffin, liquid	191203010	1
Caesar & Loretz GmbH	Paraffin, liquid	20002999004	1
Caesar & Loretz GmbH	Paraffin, liquid	20004108007	1
Caesar & Loretz GmbH/...	Paraffin, liquid	17360415	3
Calo	Paraffin, liquid	15429603	1
Cealo	Paraffin, liquid	1300805	1
Devesa/ Phönix	Paraffin, liquid	14D24-B05-295022	1
Eigenherstellung	Paraffin, liquid	130712HML01	1
Eigenherstellung	Paraffin, liquid	291012HJK01	1
Eigenherstellung	Paraffin, liquid	150413HML01	1
Eigenherstellung	Paraffin, liquid	Hergest.am13.05.13	1
Eigenherstellung	Paraffin, liquid	261113HML01	1
Eigenherstellung	Paraffin, liquid	150114HML01	1
Eigenherstellung	Paraffin, liquid	60614HJK01	1
Eigenherstellung	Paraffin, liquid	210714H01	1
Eigenherstellung	Paraffin, liquid	11214HAS01	1
Eigenherstellung	Paraffin, liquid	260115ML01	1
Eigenherstellung	Paraffin, liquid	100615HJK01	1
Eigenherstellung	Paraffin, liquid	240715HML01	1
EuRho	Paraffin, liquid	1207022-01	4
EuRho	Paraffin, liquid	1803023-01	1
EuRho / Noweda	Paraffin, liquid	131102401	4
EuRho/Gehe	Paraffin, liquid	90901	1
EuRho/Now	Paraffin, liquid	1802016-01	25
Euro OTC	Paraffin, liquid	1108033-01	1
Euro OTC	Paraffin, liquid	1412010-01	4
Euro OTC	Paraffin, liquid	1509011-01	1
Euro OTC	Paraffin, liquid	1404010-01	3
Euro OTC	Paraffin, liquid	1311024/01	1
Euro OTC	Paraffin, liquid	1503046-01	13
Euro OTC	Paraffin, liquid	1102009-01	1
Euro OTC	Paraffin, liquid	1203042-01	4
Euro OTC	Paraffin, liquid	1211026-01	7
Euro OTC	Paraffin, liquid	1211027-01	12

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Paraffin, liquid	1303031-01	11
Euro OTC	Paraffin, liquid	120802101	1
Euro OTC	Paraffin, liquid	130303101	1
Euro OTC	Paraffin, liquid	2911028-01	1
Euro OTC	Paraffin, liquid	22101402	1
Euro OTC	Paraffin, liquid	1404009-01	5
Euro OTC	Paraffin, liquid	140900701	1
Euro OTC	Paraffin, liquid	1412010-01	8
Euro OTC	Paraffin, liquid	1602026-01	20
Euro OTC	Paraffin, liquid	1511300-01	1
Euro OTC	Paraffin, liquid	1607039-01	19
Euro OTC	Paraffin, liquid	1704023-01	7
Euro OTC	Paraffin, liquid	1704023-0108598729	1
Euro OTC	Paraffin, liquid	1704023	1
Euro OTC	Paraffin, liquid	143577	1
Euro OTC	Paraffin, liquid	18100201	1
Euro OTC	Paraffin, liquid	1264597	3
Euro OTC	Paraffin, liquid	18100001-01	1
Euro OTC	Paraffin, liquid	P-18021921/...25-01	1
Euro OTC	Paraffin, liquid	1909010-01	3
Euro OTC	Paraffin, liquid	190901001	1
Euro OTC	Paraffin, liquid	144484	1
Euro OTC	Paraffin, liquid	174023-01	1
Euro OTC	Paraffin, liquid	141180	1
Euro OTC	Paraffin, liquid	160202601	1
Euro OTC	Paraffin, liquid	1311024-01	13
Euro OTC	Paraffin, liquid	170608P/1610017-01	1
Euro OTC	Paraffin, liquid	1810002_01	1
Euro OTC	Paraffin, liquid	144404	1
Euro OTC	Paraffin, liquid	1506021-01	1
Euro OTC	Paraffin, liquid	17133-01	1
Euro OTC	Paraffin, liquid	1707002-01	20
Euro OTC	Paraffin, liquid	139845	2
Euro OTC	Paraffin, liquid	1110014-01	4
Euro OTC	Paraffin, liquid	121102701	1
Euro OTC	Paraffin, liquid	1404009-01	11
Euro OTC	Paraffin, liquid	1501016-01	5
Euro OTC	Paraffin, liquid	1604009-01	1
Euro OTC	Paraffin, liquid	160703901	1
Euro OTC	Paraffin, liquid	1701052-01	9
Euro OTC	Paraffin, liquid	150600502	1
Euro OTC	Paraffin, liquid	170900201	2
Euro OTC	Paraffin, liquid	1255801	1
Euro OTC	Paraffin, liquid	1511030-01	23
Euro OTC	Paraffin, liquid	1801041-01	29
Euro OTC	Paraffin, liquid	1904026-01	11
Euro OTC	Paraffin, liquid	130902201	1
Euro OTC	Paraffin, liquid	1608007-01	8
Euro OTC	Paraffin, liquid	1709002-01	12
Euro OTC	Paraffin, liquid	190404026-01	1
Euro OTC	Paraffin, liquid	1909016-01	1
Euro OTC	Paraffin, liquid	1902012-01	4
Euro OTC	Paraffin, liquid	171002501	1
Euro OTC	Paraffin, liquid	140400901	1
Euro OTC	Paraffin, liquid	1511029-01	9
Euro OTC	Paraffin, liquid	1304010-01	3
Euro OTC	Paraffin, liquid	170105201	2
Euro OTC	Paraffin, liquid	142430	3
Euro OTC	Paraffin, liquid	1309022-01	2
Euro OTC	Paraffin, liquid	133888	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Paraffin, liquid	137491	1
Euro OTC	Paraffin, liquid	18110002-01	1
Euro OTC	Paraffin, liquid	1901011-01	30
Euro OTC	Paraffin, liquid	196310	1
Euro OTC	Paraffin, liquid	1311024-01	1
Euro OTC	Paraffin, liquid	1706017-01	6
Euro OTC	Paraffin, liquid	1810002-02	1
Euro OTC	Paraffin, liquid	1810001-01	17
Euro OTC	Paraffin, liquid	1307007-01	14
Euro Pharma	Paraffin, liquid	150101601	2
Euro/ Sanacorp	Paraffin, liquid	1409007-01	1
Euro/Gehe	Paraffin, liquid	1604045-01	12
Euro OTC	Paraffin, liquid	1407042-01	9
Euro OTC	Paraffin, liquid	1106009-01	1
Euro OTC	Paraffin, liquid	16238802	35
Euro OTC	Paraffin, liquid	1606032-01	16
Euro OTC	Paraffin, liquid	1701033-01	28
Euro OTC	Paraffin, liquid	1802016-1	1
Euro OTC	Paraffin, liquid	1610017-01	19
Euro OTC	Paraffin, liquid	16020026-01	1
Euro OTC	Paraffin, liquid	17044023-01	1
Euro OTC	Paraffin, liquid	140401001	2
Fagron	Paraffin, liquid	14D24-B05	3
Fagron	Paraffin, liquid	1004C014	1
Fagron	Paraffin, liquid	11L19-N01	1
Fagron	Paraffin, liquid	12H27-N01	1
Fagron	Paraffin, liquid	13A30-N11	19
Fagron	Paraffin, liquid	11co8-no7	1
Fagron	Paraffin, liquid	13A3010	2
Fagron	Paraffin, liquid	959561	5
Fagron	Paraffin, liquid	13E28-N02	14
Fagron	Paraffin, liquid	13E28-N02	1
Fagron	Paraffin, liquid	13G24N12	1
Fagron	Paraffin, liquid	13H02-B02	1
Fagron	Paraffin, liquid	13L17-B01-289491	5
Fagron	Paraffin, liquid	13L17-B01-289493	2
Fagron	Paraffin, liquid	13G24N12	1
Fagron	Paraffin, liquid	13L17-B01-289492	2
Fagron	Paraffin, liquid	11L19-N01	1
Fagron	Paraffin, liquid	14D24-B05-295014	3
Fagron	Paraffin, liquid	12H27-N01	1
Fagron	Paraffin, liquid	12-23-n03	1
Fagron	Paraffin, liquid	1005070	1
Fagron	Paraffin, liquid	14d24-b05-295022	1
Fagron	Paraffin, liquid	13117-b01-289492	1
Fagron	Paraffin, liquid	13a30-n11	1
Fagron	Paraffin, liquid	110816-2	1
Fagron	Paraffin, liquid	16a27-b01-323777	1
Fagron	Paraffin, liquid	16A27B01323777	1
Fagron	Paraffin, liquid	16E30-B05	2
Fagron	Paraffin, liquid	17D28-B01	2
Fagron	Paraffin, liquid	17J02-B01-345372	4
Fagron	Paraffin, liquid	18B19-B06	1
Fagron	Paraffin, liquid	18B19-B09	1
Fagron	Paraffin, liquid	18B19B09351592	1
Fagron	Paraffin, liquid	12170	1
Fagron	Paraffin, liquid	29137	1
Fagron	Paraffin, liquid	13L17-B01-289491	3
Fagron	Paraffin, liquid	18B19-B09-351592	2
Fagron	Paraffin, liquid	13L17-B01	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Paraffin, liquid	1198738	2
Fagron	Paraffin, liquid	16K09-B06-332237	6
Fagron	Paraffin, liquid	B05-295022	1
Fagron	Paraffin, liquid	16E30-B05-324041	2
Fagron	Paraffin, liquid	14D24-B05-295023	15
Fagron	Paraffin, liquid	18I13-B01-355278	2
Fagron	Paraffin, liquid	13C19-N09	3
Fagron	Paraffin, liquid	123586	4
Fagron	Paraffin, liquid	14d24-b05-295023	2
Fagron	Paraffin, liquid	2415-02050	1
Fagron	Paraffin, liquid	14D24-B05	4
Fagron	Paraffin, liquid	941435	1
Fagron	Paraffin, liquid	14D24_B05_295023	1
Fagron	Paraffin, liquid	1153092	3
Fagron	Paraffin, liquid	1254062	3
Fagron	Paraffin, liquid	18/13-B01-355278	1
Fagron	Paraffin, liquid	4413M2050	1
Fagron	Paraffin, liquid	13L-B01-289491	1
Fagron	Paraffin, liquid	16E30-B05-327577	10
Fagron	Paraffin, liquid	1806004-01	24
Fagron	Paraffin, liquid	15B16-B03-304611	10
Fagron	Paraffin, liquid	15234502	16
Fagron	Paraffin, liquid	14D24-B05-295023	1
Fagron	Paraffin, liquid	16E30B05327577	2
Fagron	Paraffin, liquid	17J02B01-345372	1
Fagron	Paraffin, liquid	18B19-B06-347311	1
Fagron	Paraffin, liquid	18B19-B09-347311	1
Fagron	Paraffin, liquid	13G24-N12	7
Fagron	Paraffin, liquid	13l17-B01-289492	1
Fagron	Paraffin, liquid	14357205	1
Fagron	Paraffin, liquid	1179735	3
Fagron	Paraffin, liquid	13L17-B01-289493	2
fargon	Paraffin, liquid	196310	1
Fiebig	Paraffin, liquid	17010331	1
Fagron	Paraffin, liquid	196310-0004	1
Euro OTC	Paraffin, liquid	170402023-01	2
Euro OTC	Paraffin, liquid	1801041-01(143577	1
Euro OTC	Paraffin, liquid	1806004-01/145179	1
Fagron	Paraffin, liquid	1105054	2
Fagron	Paraffin, liquid	1126261	2
fragon	Paraffin, liquid		2
Gatt-Koller	Paraffin, liquid	1802936	1
Gatt-Koller	Paraffin, liquid	1802836	1
Gatt-Koller	Paraffin, liquid	1900504	1
Gatt-Koller	Paraffin, liquid	1900893	1
Gehe	Paraffin, liquid	12227601	1
Gehe	Paraffin, liquid	13103309	17
Gehe	Paraffin, liquid	14305905	9
Gehe	Paraffin, liquid	19271401	6
Caelo	Paraffin, liquid	1313705	2
Gehe-Henry	Paraffin, liquid	1000002995	11
Caelo	Paraffin, liquid	170620078	1
geprüft am 20.11.2013	Paraffin, liquid	2013-11-20	1
H.Lamotte/Sanacorp	Paraffin, liquid	10526938	1
Hänseler	Paraffin, liquid	2019040428	1
Hansen & Rosenthal/No...	Paraffin, liquid	16A27-B01	3
Henry Lamotte	Paraffin, liquid	123393	3
Henry Lamotte	Paraffin, liquid	5863401	9
Henry Lamotte	Paraffin, liquid	8003083001	26

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Henry Lamotte Gmbh, M...	Paraffin, liquid	79460	1
Henry Lamotte Oels GmbH	Paraffin, liquid	123393	4
Henry Lamotte oils GmbH	Paraffin, liquid	123743	30
Henry Lamotte Oils GmbH	Paraffin, liquid	5098101	1
Henry Lamotte Oils GmbH	Paraffin, liquid	5593601	19
Henry Lamotte Oils Gm...	Paraffin, liquid	13148606	1
Henry Lamotte Olis	Paraffin, liquid	2x5367601	1
Henry Lamotte Olis Gm...	Paraffin, liquid	5593601	22
Henry Lamotte/Sanacorp	Paraffin, liquid	1313703	1
Ichthyol-Gesellschaft...	Paraffin, liquid	1542903	1
Jenne	Paraffin, liquid	181000201	1
Euro OTC	Paraffin, liquid	261113PML01	1
Kögl	Paraffin, liquid	3862511164716	1
Kögl	Paraffin, liquid	26702170717	1
Kögl	Paraffin, liquid	88903171317	1
Kögl	Paraffin, liquid	175705172217	1
Kögl	Paraffin, liquid	1700810	1
Kögl	Paraffin, liquid	11701629	1
Kögl	Paraffin, liquid	1702112	2
Kögl	Paraffin, liquid	1800712	1
Kögl	Paraffin, liquid	1801030	1
Kögl	Paraffin, liquid	1801918	1
Kögl	Paraffin, liquid	1802726	2
Caelo	Paraffin, liquid	16282801	1
Caelo	Paraffin, liquid	1702007	1
Laborchemie Apolda/Je...	Paraffin, liquid	12345	1
Lamotte	Paraffin, liquid	123075	7
Lamotte/Phoenix	Paraffin, liquid	8003683001	1
Lamotte/Phoenix	Paraffin, liquid	1000010844	1
Merck	Paraffin, liquid	K15810032	1
Noweda	Paraffin, liquid	122875	5
Noweda	Paraffin, liquid	1208021-01	5
Noweda	Paraffin, liquid	1404009-09	1
Noweda	Paraffin, liquid	17D28-B01-353241	5
Caelo	Paraffin, liquid	17360410	1
Noweda/Bomnastus	Paraffin, liquid	303806	9
Caelo	Paraffin, liquid	17047603	19
Euro OTC	Paraffin, liquid	1407042-01	5
Fagron	Paraffin, liquid	1220239	1
Euro OTC	Paraffin, liquid	1506005-01	1
Euro OTC	Paraffin, liquid	1404010-01	2
Euro OTC	Paraffin, liquid	1511030-01	1
Euro OTC	Paraffin, liquid	18060004	1
Euro OTC	Paraffin, liquid	130401001	1
Ph.Eur.	Paraffin, liquid	6861849	2
Phoenix	Paraffin, liquid	12042202	17
Phoenix	Paraffin, liquid	16082906	16
Phoenix	Paraffin, liquid	3124	1
Phoenix	Paraffin, liquid	17j02-B01-343565	1
Phoenix	Paraffin, liquid	18002494	9
Phoenix	Paraffin, liquid	16K09-B06-331721	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phoenix	Paraffin, liquid	3414	1
Fagron	Paraffin, liquid	12J23-N03	4
Euro OTC	Paraffin, liquid	181002-01	3
Phonix	Paraffin, liquid	18B19-B19-347311	1
PHÖNIX	Paraffin, liquid	17062008	26
Fagron	Paraffin, liquid	959561	1
Caelo	Paraffin, liquid	17062001/2051017	1
Fagron	Paraffin, liquid	13L17-B01-289492	3
Phönix/Henry	Paraffin, liquid	5367601	36
Sanacorp	Paraffin, liquid	12324307	23
Sanacorp	Paraffin, liquid	59/AKD4	1
Caelo	Paraffin, liquid	13232901ok	1
Caelo	Paraffin, liquid	14305905	3
Caelo	Paraffin, liquid	15293201	1
Caelo	Paraffin, liquid	57/AD1	1
Caelo	Paraffin, liquid	58/AKD55	1
Caelo	Paraffin, liquid	59/AKD2	1
Fagron	Paraffin, liquid	16A27-B01-323777	14
Spinnrad	Paraffin, liquid	13103308	1
Euro OTC	Paraffin, liquid	1506005-01	13
Fagron	Paraffin, liquid	17/J02-B01-345372	1
Übungszwecke	Paraffin, liquid	180104101720	1
Euro OTC	Paraffin, liquid	125071	1
Caelo	Peanut oil, hydrated	10206801	2
Caelo	Peanut oil, hydrated	11266904	1
Caelo	Peanut oil, hydrated	11300302	1
Caelo	Peanut oil, hydrated	12298203	1
Caelo	Peanut oil, hydrated	12298204	2
Caelo	Peanut oil, hydrated	13172801	2
Caelo	Peanut oil, hydrated	12298206	4
Caelo	Peanut oil, hydrated	12298205	2
Caelo	Peanut oil, hydrated	13172803	4
Phönix Gotha	Peanut oil, hydrated	12230701	2
Maros	Peppermint leaf mother tincture	RU2432	2
Caelo	Peppermint spirit 80.2%	11185901	1
Caelo	Peppermint spirit 80.2%	11339501	1
Caelo	Peppermint spirit 80.2%	11185902	1
Caelo	Peppermint spirit 80.2%	12327202	2
Caesar&Loretz GmbH/An…	Peppermint spirit 80.2%	13252802	1
Caelo	Peppermint tincture (70%) 1:5	9089503	1
Caelo	Peppermint tincture (70%) 1:5	10106507	1
Caelo	Peppermint tincture (70%) 1:5	9089504	1
Caelo	Peppermint tincture (70%) 1:5	24091206	1
Caelo	Peppermint tincture (70%) 1:5	11207414	3
Caelo	Peppermint tincture (70%) 1:5	12293409	1
Maros	Peppermint tincture (70%) 1:5	RU2432	1
Caelo	Peru balsam, original	131966609	1
Caelo	Peru balsam, original	11150808	2
Caelo	Peru balsam, original	13196609	1
Caelo	Peru balsam, original	11025902	1
Caelo	Peru balsam, original	12020602	2
Caelo	Peru balsam, original	12302411	5
Caelo	Peru balsam, original	12302413	1
Caelo	Peru balsam, original	13196606	1
Caelo	Peru balsam, original	13196606	1
Caelo	Peru balsam, original	Retest	1
Caelo	Peru balsam, original	13196609	1
Fagron	Peru balsam, original	9G03-N09	1
Fagron	Peru balsam, original	12A20-N13	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Peru balsam, original	12K30-N02	2
Fagron	Peru balsam, original	12H29-N010432/549	1
Fagron	Peru balsam, original	13G11-N05	1
Fagron	Peru balsam, original	11G22-N06	2
Fagron	Peru balsam, original	3913E-01162	1
Fagron	Peru balsam, original	2215I-01162	1
Nachprüfung	Peru balsam, original	12020602	1
Phönix Gotha	Peru balsam, original	10C30-N07	1
s.Prüfprotokoll	Peru balsam, original	s.Prüfprotokoll	1
Caelo	Peru balsam, original	12020611	4
Caelo	Plantain herb liquid extract (...	11332621	1
Caelo	Plantain herb liquid extract (...	13008706	1
Caelo	Plantain herb liquid extract (...	13008703	2
Caesar & Loretz	Plantain herb liquid extract (...	13008704	1
Caesar & Loretz/ Noweda	Plantain herb liquid extract (...	11332620	1
Caesar & Loretz/ Noweda	Plantain herb liquid extract (...	11332613	2
Caesar & Loretz/ Noweda	Plantain herb liquid extract (...	11332616	1
Caesar & Loretz/ Noweda	Plantain herb liquid extract (...	11332611	1
Caesar & Loretz/ Noweda	Plantain herb liquid extract (...	13008708	2
apomix	Prednisolone 1% (non-ionic hyd...	3A160813	1
Caelo	Propolis liquid extract 10% (i...	14377411	1
Caelo	Propolis liquid extract 10% (i...	12086102	1
Caelo	Propolis liquid extract 10% (i...	12086105	1
Caelo	Propolis liquid extract 10% (i...	13347601	1
Caelo	Propolis liquid extract 10% (i...	13347613	1
Caelo	Propolis liquid extract 10% (i...	12086101	1
Caelo	Propolis liquid extract 10% (i...	12086115	1
Caelo	Propolis liquid extract 10% (i...	12086113	1
Caelo	Propolis liquid extract 10% (i...	14377408	1
Caelo	Propolis tincture (96%)	11269516	1
Caelo	Propolis tincture (96%)	11269511	1
Caelo	Propolis tincture (96%)	12206322	1
Caelo	Propolis tincture (96%)	11269521	1
Caelo	Propolis tincture (96%)	10305414	1
Caesar/Lorenz	Propolis tincture (96%)	12206319	1
müller	Propolis tincture (96%)	131206	1
Bomba/AHD	Propolis tincture 20%	280337	2

Supplier	Substance	Batch	Spectra
Caelo	Ratanhia tincture (70%) 1:5	11292802	3
Caelo	Ratanhia tincture (70%) 1:5	12255401	6
Caelo	Ratanhia tincture (70%) 1:5	12255403	2
Caelo	Ratanhia tincture (70%) 1:5	14101305	1
Caelo	Ratanhia tincture (70%) 1:5	13051205	1
Caelo	Ratanhia tincture (70%) 1:5	13051206	3
Caelo	Ratanhia tincture (70%) 1:5	CH:008/0913	1
Caelo	Ratanhia tincture (70%) 1:5	11204310	1
Caesar/Noweda	Ratanhia tincture (70%) 1:5	13051210	1
Noweda	Ratanhia tincture (70%) 1:5	12255406	1
Caelo	Rose water	12342405	1
Caelo	Rose water	12185405	3
Caelo	Rose water	12288903	7
Caelo	Rose water	12299801	2
Caelo	Rose water	1021301	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Rose water	12288902	2
Caelo	Rose water	12342407	2
Caelo	Rose water	13137302	2
Caelo	Rose water	12299803	1
Caelo	Rose water	12342406	2
Caelo	Rose water	13137303	1
Caelo	Rose water	31101305	1
Caelo	Rose water	13306603	6
Caelo	Rose water	13306604	8
Caelo	Rose water	13137307	1
Caelo	Rose water	15253701	1
Caelo	Rose water	13137305	6
Caelo	Rose water	1234201	1
Caelo	Rose water	1317302	1
Caelo	Rose water	12342404	1
Caelo	Rose water	12342402	1
Caelo	Rose water	13343604	2
Caelo	Rose water	12K26-N10	4
Caelo	Rose water	12C27-N05	1
Caelo	Rose water	11355401	1
Caelo	Rose water	12123203	1
Caelo	Rose water	12299802	6
Caelo	Rose water	13255902	4
Fagron	Rose water	12H20-N09	3
Fagron	Rose water	13B01-N01	3
Fagron	Rose water	12H-20-N09	1
Fagron	Rose water	737724	1
Caelo	Rose water	12342401	2
Otto Fischar GmbH	Rose water	5354081	1
Caelo	Rose water	11286005	1
Caelo	Rosemary leaf tincture (70%) 1:5	9135008	1
Caelo	Rosemary leaf tincture (70%) 1:5	140613	1
Caelo	Rosemary leaf tincture (70%) 1:5	9135005	1

Supplier	Substance	Batch	Spectra
Caelo	Sage leaf liquid extract (55%)...	11372206	1
Caelo	Sage leaf liquid extract (55%)...	11372217	1
Caelo	Sage tincture (70%) 1:10	9345011	1
Caelo	Sage tincture (70%) 1:10	12196602	6
Caelo	Sage tincture (70%) 1:10	4111M-02476	1
Caelo	Sage tincture (70%) 1:10	1120910	1
Caelo	Sage tincture (70%) 1:10	11220910	1
Caelo	Sage tincture (70%) 1:10	11220909	1
Caelo	Sage tincture (70%) 1:10	12196607	3
Caelo	Sage tincture (70%) 1:10	11220911	1
Caelo	Sage tincture (70%) 1:10	12196611	8
Caelo	Sage tincture (70%) 1:10	1219661	1
Caelo	Sage tincture (70%) 1:10	12196609	3
Caelo	Sage tincture (70%) 1:10	13125503	3
Caelo	Sage tincture (70%) 1:10	27111308	1
Caelo	Sage tincture (70%) 1:10	13125504	1
Caelo	Sage tincture (70%) 1:10	13125513	3
Caelo	Sage tincture (70%) 1:10	13125509	1
Caelo	Sage tincture (70%) 1:10	14078111	1
Caelo	Sage tincture (70%) 1:10	15081804	1
Caelo	Sage tincture (70%) 1:10	1120912	1
Caelo	Sage tincture (70%) 1:10	13125505	1
Caelo	Sage tincture (70%) 1:10	12196612	3
apomix	Searing paste SR	9B280613	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Searing paste SR	3B180213	1
apomix	Searing paste SR	14B240913	3
apomix	Searing paste SR	15B211013	1
apomix	Searing paste SR	12B150813	2
apomix	Searing paste SR	11B010813	1
apomix	Searing paste SR	5B110413	1
Taoasis	Siam benzoin	541389-111081	1
Caelo	Siam benzoin tincture (90%) 1:5	1228119	1
Phönix	Siam benzoin tincture (90%) 1:5	12228107	1
Hedinger / Sanacorp	Sodium hypochlorite solution 3%	46386	1
Hedinger/ Gehe	Sodium hypochlorite solution 3%	46375	1
Hedinger/ Phönix	Sodium hypochlorite solution 3%	46392	1
Caelo	Sodium lactate solution 60%	131000701	1
Euro OTC	Sodium lactate solution 60%	1310007-01	27
Euro OTC	Sodium lactate solution 60%	1212004-01	2
Caelo	Spearmint water	13184503	1
Bombastus	St. John's wort oil	272178	1
Bombastus	St. John's wort oil	275674	1
Bombastus	St. John's wort oil	279926	1
Bombastus	St. John's wort oil	282275	1
Bombastus	St. John's wort oil	283368	1
Bombastus	St. John's wort oil	293138	1
Caelo	St. John's wort oil	2061205	1
Caelo	St. John's wort oil	10380614	1
Caelo	St. John's wort oil	11205309	5
Caelo	St. John's wort oil	2071201	1
Caelo	St. John's wort oil	11372104	4
Caelo	St. John's wort oil	28091204	1
Caelo	St. John's wort oil	12293904	5
Caelo	St. John's wort oil	1501302	1
Caelo	St. John's wort oil	12293911	8
Caelo	St. John's wort oil	12293902	1
Caelo	St. John's wort oil	12293903	1
Caelo	St. John's wort oil	13155804	11
Caelo	St. John's wort oil	13155802	3
Caelo	St. John's wort oil	12292904	1
Caelo	St. John's wort oil	5346791	1
Caelo	St. John's wort oil	13252506	1
Caelo	St. John's wort oil	14130405	1
Caelo	St. John's wort oil	13389218	1
Caelo	St. John's wort oil	15358606	1
Caelo	St. John's wort oil	15358605	1
Caelo	St. John's wort oil	16037003	1
Caelo	St. John's wort oil	12076913	7
Caelo	St. John's wort oil	12193404	1
Caelo	St. John's wort oil	11372102	2
Caelo	St. John's wort oil	13065106	3
Caelo	St. John's wort oil	12076912	2
Caelo	St. John's wort oil	12076904	1
Caelo	St. John's wort oil	13155803	1
Caelo	St. John's wort oil	12293919	2
Caelo	St. John's wort oil	12293918	4
Fagron	St. John's wort oil	12L17-N15	1
Fagron	St. John's wort oil	5346701	4
Fagron	St. John's wort oil	12A30-N09	1
Fagron	St. John's wort oil	13A30-N09	1
henry	St. John's wort oil	5803902	1
Henry Lamotte	St. John's wort oil	5442802	1
HenryLamotte/Sanacorp	St. John's wort oil	5308402-3457312120	1
Lamotte	St. John's wort oil	5171601	6

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Lamotte	St. John's wort oil	5346702	11
Lamotte / Sanacorp	St. John's wort oil	517601	1
Lamotte Sanacorp	St. John's wort oil	5308402	5
Lamotte/Noweda	St. John's wort oil	4959702	5
Maros	St. John's wort oil	9758	1
Maros	St. John's wort oil	97583x	1
Caelo	St. John's wort oil	13065104	6
Caelo	St. John's wort oil	12076905	2
primavera	St. John's wort oil	12106131	1
Primavera	St. John's wort oil	25508131	1
Purren Apotheke	St. John's wort oil	11205311	1
Sanacorp	St. John's wort oil	13252505	6
Caelo	St. John's wort oil	12293917	4
Caelo	St. John's wort oil	13065105	9
Taoasis	St. John's wort oil	145646-103095	1
Taoasis	St. John's wort oil	12312-109683	1
Taoasis	St. John's wort oil	123212-110835	1
Taoasis	St. John's wort oil	123212-111876	1
Taoasis GmbH	St. John's wort oil	150822-107470	1
Caelo	St. John's wort tincture (70%)...	11195213	1
Caelo	St. John's wort tincture (70%)...	11195217	1
Caelo	St. John's wort tincture (70%)...	122377006	1
Caelo	St. John's wort tincture (70%)...	11091303	1
Caelo	St. John's wort tincture (70%)...	12237708	1
Caelo	St. John's wort tincture (70%)...	12237706	1
Caelo	St. John's wort tincture (70%)...	11195216	2
Caelo	St. John's wort tincture (70%)...	12237709	1
Caelo	Standardised cayenne pepper ex...	12053902	2
Nachprüfung	Standardised cayenne pepper ex...	2413M-03232	1
Maros/direkt/07.05.13	Strophanthus seed mother tinct...	4029013	1
Maros/direkt/15.01.14	Strophanthus seed mother tinct...	1031014	3
Maros/direkt/21.10.13	Strophanthus seed mother tinct...	10030413	2
Maros/direkt/28.02.14	Strophanthus seed mother tinct...	2031214	4
Maros/Maros	Strophanthus seed mother tinct...	6029813	2

Supplier	Substance	Batch	Spectra
Caelo	Texapon® CS paste	12292006	1
Caelo	Texapon® CS paste	12292007	1
Caelo	Texapon® CS paste	15177804	3
Caelo	Texapon® CS paste	15177806	1
Caelo	Texapon® CS paste	1577804	1
Caelo	Texapon® CS paste	16268904	1
Caelo	Texapon® CS paste	16268903	1
Caelo	Texapon® CS paste	16268907	2
Caelo	Texapon® CS paste	16268909	2
Caelo	Theriac	1121206	1
Caelo	Theriac	11121203	1
Caelo	Theriac	12067207	2
Caelo	Theriac	13187201	3
Caelo	Theriac	12067201	2
Caelo	Theriac	12067214	1
Caelo	Theriac	12067205	1
Fiebig 23.10.12 ek:6,...	Theriac	12067202	1
Phönix	Theriac	12067210	1
Caelo	Thyme liquid extract	11090508	1
Caelo	Thyme liquid extract	13036502	2
Caelo	Thyme liquid extract	100312	1
Caelo	Thyme liquid extract	12072102	2
Caelo	Thyme liquid extract	13036516	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Thyme liquid extract	1313M-01420	1
Caesar & Loretz	Thyme liquid extract	12197005	2
Maros	Thyme liquid extract	1156	1
Noweda	Thyme liquid extract	10198605	1
Caelo	Thyme tincture (70%) 1:5	10043113	1
Caelo	Thyme tincture (70%) 1:5	21031311	1
Caelo	Thyme tincture (70%) 1:5	18101304	1
Caelo	Tormentil tincture (70%) 1:5	13263004	1
Caelo	Tormentil tincture (70%) 1:5	13263007	1
Caelo	Tormentil tincture (70%) 1:5	11061207	1
Caelo	Tormentil tincture (70%) 1:5	3101212484	1
Caelo	Tormentil tincture (70%) 1:5	1910212484	1
Caelo	Tormentil tincture (70%) 1:5	4212E-02484	1
Caelo	Tormentil tincture (70%) 1:5	12255204	1
Caelo	Tormentil tincture (70%) 1:5	11278309	2
Caelo	Tormentil tincture (70%) 1:5	2103312484	1
Caelo	Tormentil tincture (70%) 1:5	13003018	3
Caelo	Tormentil tincture (70%) 1:5	13263003	1
Caelo	Tormentil tincture (70%) 1:5	13003003	1
Caelo	Tormentil tincture (70%) 1:5	11278310	1
Caelo	Tormentil tincture (70%) 1:5	13003010	2
Caelo	Tormentil tincture (70%) 1:5	13003012	5
Caelo	Tormentil tincture (70%) 1:5	13003009	3
Caelo	Tormentil tincture (70%) 1:5	3713Q2484	1
Caelo	Tormentil tincture (70%) 1:5	614M2484	1
Caelo	Tormentil tincture (70%) 1:5	13003002	2
Caelo	Tormentil tincture (70%) 1:5	13003008	1
Caelo	Tretinoin solution 3.33mg/ml	11K09-N-03	1
Fagron	Tretinoin solution 3.33mg/ml	12C08-N14	4
Fagron	Tretinoin solution 3.33mg/ml	19061306	1
Fagron	Tretinoin solution 3.33mg/ml	13C28-N01	10
Fagron	Tretinoin solution 3.33mg/ml	1308D002	1
Fagron	Tretinoin solution 3.33mg/ml	1501D004	1
Fagron	Tretinoin solution 3.33mg/ml	1108D001	1
Fagron	Tretinoin solution 3.33mg/ml	13C25-N01	1
Fagron	Tretinoin solution 3.33mg/ml	1204D004	1
Fagron	Tretinoin solution 3.33mg/ml	1308D00213/11-N04	1
Fagron	Tretinoin solution 3.33mg/ml	12G05-N15	6
Fagron	Tretinoin solution 3.33mg/ml	13/11-N04	2
Fagron	Tretinoin solution 3.33mg/ml	13I11-N04	6
apomix	Triamcinolone acetonide 1% (no...	9C111212	1
apomix	Triamcinolone acetonide 1% (no...	6A260813	2
apomix	Triamcinolone acetonide 1% (no...	5A290713	2
apomix	Triamcinolone acetonide 1% (no...	10A051213	1
apomix	Triamcinolone acetonide 1% (no...	8A190913	1
apomix	Triamcinolone acetonide 1% (no...	7A170913	2
apomix	Triamcinolone acetonide 1% (no...	3A110613	1
apomix	Triamcinolone acetonide 1% (no...	4A040713	1
Caelo	Triamcinolone acetonide concen...	12301201	2
Caelo	Triamcinolone acetonide concen...	1332501	1
Caelo	Triamcinolone acetonide concen...	13184701	6
Caelo	Triamcinolone acetonide concen...	13275801	4
Defektur	Triamcinolone acetonide concen...	3813Q	1
Defektur	Triamcinolone acetonide concen...	4213E	1
Defektur	Triamcinolone acetonide concen...	4713A	1
Defektur	Triamcinolone acetonide concen...	4913Q	1
Fagron	Triamcinolone acetonide concen...	214Q	1
Phönix	Triamcinolone acetonide concen...	13029801	2

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Supplier	Substance	Batch	Spectra
Caelo	Valerian tincture (70%) 1:5	16030101	1
Caelo	Valerian tincture (70%) 1:5	11254309	1
Caelo	Valerian tincture (70%) 1:5	11379201	3
Caelo	Valerian tincture (70%) 1:5	12113002	1
Caelo	Valerian tincture (70%) 1:5	12030902	2
Caelo	Valerian tincture (70%) 1:5	6099.99.99	1
Caelo	Valerian tincture (70%) 1:5	12113004	3
Caelo	Valerian tincture (70%) 1:5	12196203	1
Caelo	Valerian tincture (70%) 1:5	11011308	1
Caelo	Valerian tincture (70%) 1:5	11379204	1
Caelo	Valerian tincture (70%) 1:5	12030904	1
Caelo	Valerian tincture (70%) 1:5	12294002	3
Caelo	Valerian tincture (70%) 1:5	12294008	2
Caelo	Valerian tincture (70%) 1:5	13003206	6
Caelo	Valerian tincture (70%) 1:5	13003205	1
Caelo	Valerian tincture (70%) 1:5	13094503	2
Caelo	Valerian tincture (70%) 1:5	13094506	2
Caelo	Valerian tincture (70%) 1:5	13052601	1
Caelo	Valerian tincture (70%) 1:5	18101302	1
Caelo	Valerian tincture (70%) 1:5	8011423	1
Caelo	Valerian tincture (70%) 1:5	14353011	1
Caelo	Valerian tincture (70%) 1:5	13184905	4
Caelo	Valerian tincture (70%) 1:5	11187103	1
Caelo	Valerian tincture (70%) 1:5	12196204	4
Caelo	Valerian tincture (70%) 1:5	12294007	4
Caelo	Valerian tincture (70%) 1:5	1309505	1
Caelo	Valerian tincture (70%) 1:5	12030908	1
Caelo	Valerian tincture (70%) 1:5	12113005	1
Caelo	Valerian tincture (70%) 1:5	13094507	5
Caelo	Valerian tincture (70%) 1:5	13094505	7
Caelo	Valerian tincture (70%) 1:5	13094505-3380319003	1
Caelo	Valerian tincture (70%) 1:5	13349203	1
Cheplapharm Arzneimit...	Valerian tincture (70%) 1:5	70713	1
Euro OTC	Valerian tincture (70%) 1:5	1301003-01	2
Euro OTC	Valerian tincture (70%) 1:5	1304041-01	2
Noweda	Valerian tincture (70%) 1:5	F1300052	1
Noweda	Valerian tincture (70%) 1:5	F1300146	1
Caelo	Valerian tincture (70%) 1:5	11379203	1
Phönix Gotha	Valerian tincture (70%) 1:5	11254302	1
Caelo	Valerian tincture (70%) 1:5	12196210	2
Caelo	Vitamin A-palmitate (ca. 1 m I...	10316605	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	1117801	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	12132902	2
Caelo	Vitamin A-palmitate (ca. 1 m I...	11178109	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	12132904	3
Caelo	Vitamin A-palmitate (ca. 1 m I...	12132906	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	1013Q-02565	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	12132910	2
Caelo	Vitamin A-palmitate (ca. 1 m I...	13057002	4
Caelo	Vitamin A-palmitate (ca. 1 m I...	3815926	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	130577002	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	13296208	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	11178101	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	12132906	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	12132910	4
Caelo	Vitamin A-palmitate (ca. 1 m I...	120404301	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	13057003	1
Caelo	Vitamin A-palmitate (ca. 1 m I...	13296206	1
Caesar & Loretz GmbH	Vitamin A-palmitate (ca. 1 m I...	10316605	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Euro OTC	Vitamin A-palmitate (ca. 1 m I…	1204043-01	3
Euro OTC	Vitamin A-palmitate (ca. 1 m I…	1310030-01	1
EUro/AHD	Vitamin A-palmitate (ca. 1 m I…	1211032-01	3
Euro OTC	Vitamin A-palmitate (ca. 1 m I…	1305003-01	3
Fagron	Vitamin A-palmitate (ca. 1 m I…	UT12110078	1
Fagron	Vitamin A-palmitate (ca. 1 m I…	12J16-N03	1
Fagron	Vitamin A-palmitate (ca. 1 m I…	13F26-N08	5
Fagron	Vitamin A-palmitate (ca. 1 m I…	13C19-N12	5
Gehe	Vitamin A-palmitate (ca. 1 m I…	11178101	3
Gehe	Vitamin A-palmitate (ca. 1 m I…	1110018-01	1
Gehe	Vitamin A-palmitate (ca. 1 m I…	11178103	2
GEHE	Vitamin A-palmitate (ca. 1 m I…	12132902	4
gehe 28.11.2013	Vitamin A-palmitate (ca. 1 m I…	13057007	2
Caelo	Vitamin A-palmitate (ca. 1 m I…	13057002	1
Euro OTC	Vitamin A-palmitate (ca. 1 m I…	1305003-01-342631115	1
Phönix	Vitamin A-palmitate (ca. 1 m I…	12132904	3
Euro OTC	Vitamin A-palmitate (ca. 1 m I…	1211032-01	3
Audor Pharma	Vitamin F liposomes	AP207152FL	1
Audor Pharma	Vitamin F liposomes	AP302038FL	1
Eigenherstellung	Vitamin F liposomes	AP307176FL	1

Supplier	Substance	Batch	Spectra
Caelo	Witch hazel bark liquid extrac…	13044104	1
Caelo	Witch hazel bark liquid extrac…	11165602	1
Caelo	Witch hazel bark liquid extrac…	13044102	3
Caelo	Witch hazel bark liquid extrac…	11165605	1
Caelo	Witch hazel bark liquid extrac…	13044106	1
Caelo	Witch hazel bark water	12376901	3
Caelo	Witch hazel bark water	13324411	1
Caelo	Witch hazel bark water	11238904	1
Caelo	Witch hazel bark water	11238906	3
Caelo	Witch hazel bark water	12196906	4
Caelo	Witch hazel bark water	11062814	1
Caelo	Witch hazel bark water	12196905	4
Caelo	Witch hazel bark water	11238910	1
Caelo	Witch hazel bark water	1219608	1
Caelo	Witch hazel bark water	12196908	3
Caelo	Witch hazel bark water	12376907	9
Caelo	Witch hazel bark water	12376906	2
Caelo	Witch hazel bark water	12376905	2
Caelo	Witch hazel bark water	12376912	2
Caelo	Witch hazel bark water	12376918	3
Caelo	Witch hazel bark water	13324403	7
Caelo	Witch hazel bark water	12376912Caelo	1
Caelo	Witch hazel bark water	14093305	2
Caelo	Witch hazel bark water	14093309	2
Caelo	Witch hazel bark water	15430206	1
Caelo	Witch hazel bark water	13324401	1
Caelo	Witch hazel bark water	12376916	1
Caelo	Witch hazel bark water	12376909	3
Caelo	Witch hazel bark water	12359605	1
Fiebig ek:5.69EUR 10.08…	Witch hazel bark water	11238911	2
Hedinger	Witch hazel bark water	20153B	2
Spinnrad/Phoenix	Witch hazel bark water	413310062	1
Caelo	Witch hazel leaf liquid extrac…	27081302	1
Caelo	Witch hazel leaf liquid extrac…	11060505	1
Caelo	Witch hazel leaf liquid extrac…	12095402	1
Caelo	Witch hazel leaf liquid extrac…	12165010	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Witch hazel leaf liquid extrac...	31031404	1
Caelo	Witch hazel leaf liquid extrac...	16071401	1
Caelo	Witch hazel leaf liquid extrac...	14112302	1
Caelo	Witch hazel leaf liquid extrac...	12165007	1
Caelo	Witch hazel leaf liquid extrac...	15397406	1
Noweda	Witch hazel leaf liquid extrac...	12095405	1
Sanacorp	Witch hazel leaf liquid extrac...	13112003	1
12370401	Wool alcohol cream DAB/SR	12370401	11
Bombastus	Wool alcohol cream DAB/SR	1900019	1
Bombastus	Wool alcohol cream DAB/SR	1900024	1
18023501	Wool alcohol cream DAB/SR	18023501	31
A.H. 25.06.13 ek: 9,75EUR	Wool alcohol cream DAB/SR	13145501	7
apomix	Wool alcohol cream DAB/SR	35A260516	1
Caelo	Wool alcohol cream DAB/SR	18005985	3
AHD	Wool alcohol cream DAB/SR	14356301	1
AHD / Leyh	Wool alcohol cream DAB/SR	153711	1
Bombastus	Wool alcohol cream DAB/SR	3020333	1
Bombastus	Wool alcohol cream DAB/SR	288355	2
apomix	Wool alcohol cream DAB/SR	33A150415	1
apomix	Wool alcohol cream DAB/SR	41A020513	2
Euro OTC	Wool alcohol cream DAB/SR	39A150514	4
apomix	Wool alcohol cream DAB/SR	46A011116	5
apomix	Wool alcohol cream DAB/SR	5A220217	3
apomix	Wool alcohol cream DAB/SR	49A031116	3
Alliance Health 06.03...	Wool alcohol cream DAB/SR	14362102	6
Alliance Healthcare	Wool alcohol cream DAB/SR	275909	1
apomix	Wool alcohol cream DAB/SR	69A080814	1
Caelo	Wool alcohol cream DAB/SR	13172103	11
Caelo	Wool alcohol cream DAB/SR	20001085001	2
AMH Niemann/Sanacorp	Wool alcohol cream DAB/SR	5A040419	4
Anzag	Wool alcohol cream DAB/SR	11226402	1
Anzag	Wool alcohol cream DAB/SR	12122201	1
Anzag	Wool alcohol cream DAB/SR	13145801	11
Anzag	Wool alcohol cream DAB/SR	282749	2
Anzag	Wool alcohol cream DAB/SR	13145901	1
Anzag	Wool alcohol cream DAB/SR	151500002	1
Anzag 30.01.2019	Wool alcohol cream DAB/SR	18241501	23
Caelo	Wool alcohol cream DAB/SR	12308001	7
apomix	Wool alcohol cream DAB/SR	22A200213	1
apomix	Wool alcohol cream DAB/SR	27A180315	1
apomix	Wool alcohol cream DAB/SR	58A100615	1
apomix	Wool alcohol cream DAB/SR	96A111115	3
apomix	Wool alcohol cream DAB/SR	20A010316	2
apomix	Wool alcohol cream DAB/SR	3A270116	1
apomix	Wool alcohol cream DAB/SR	40A080816	5
apomix	Wool alcohol cream DAB/SR	14A280617	1
apomix	Wool alcohol cream DAB/SR	14A130618	3
apomix	Wool alcohol cream DAB/SR	27A211118	5
apomix	Wool alcohol cream DAB/SR	2A120219	4
apomix	Wool alcohol cream DAB/SR	7A210519	2
apomix	Wool alcohol cream DAB/SR	20A070212	1
apomix	Wool alcohol cream DAB/SR	21A070212	1
apomix	Wool alcohol cream DAB/SR	32A070312	1
apomix	Wool alcohol cream DAB/SR	33A070312	1
apomix	Wool alcohol cream DAB/SR	51A070512	1
apomix	Wool alcohol cream DAB/SR	69A100712	1
apomix	Wool alcohol cream DAB/SR	62A200612	1
apomix	Wool alcohol cream DAB/SR	96A161012	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Wool alcohol cream DAB/SR	104A291012	1
apomix	Wool alcohol cream DAB/SR	103A291012	4
apomix	Wool alcohol cream DAB/SR	101A291012	1
apomix	Wool alcohol cream DAB/SR	3A160113	2
apomix	Wool alcohol cream DAB/SR	90A021012	1
apomix	Wool alcohol cream DAB/SR	98A241012	1
apomix	Wool alcohol cream DAB/SR	20A120213	1
apomix	Wool alcohol cream DAB/SR	109A191112	1
apomix	Wool alcohol cream DAB/SR	39A180413	3
apomix	Wool alcohol cream DAB/SR	56A300713	1
apomix	Wool alcohol cream DAB/SR	19A120213	1
apomix	Wool alcohol cream DAB/SR	33A080413	1
apomix	Wool alcohol cream DAB/SR	72A270913	1
apomix	Wool alcohol cream DAB/SR	56A270613	1
apomix	Wool alcohol cream DAB/SR	101A191213	2
apomix	Wool alcohol cream DAB/SR	1A020114	1
apomix	Wool alcohol cream DAB/SR	41A150514	1
apomix	Wool alcohol cream DAB/SR	41A150515	1
apomix	Wool alcohol cream DAB/SR	61A080714	2
apomix	Wool alcohol cream DAB/SR	83A290914	2
apomix	Wool alcohol cream DAB/SR	96A181114	4
apomix	Wool alcohol cream DAB/SR	92A281014	1
apomix	Wool alcohol cream DAB/SR	100A021214	1
apomix	Wool alcohol cream DAB/SR	108A301214	1
apomix	Wool alcohol cream DAB/SR	13A050215	2
apomix	Wool alcohol cream DAB/SR	64A250715	1
apomix	Wool alcohol cream DAB/SR	74A130815	2
apomix	Wool alcohol cream DAB/SR	32A120416	3
apomix	Wool alcohol cream DAB/SR	5A280116	1
apomix	Wool alcohol cream DAB/SR	37A040716	1
apomix	Wool alcohol cream DAB/SR	19A010316	1
apomix	Wool alcohol cream DAB/SR	50A011216	4
apomix	Wool alcohol cream DAB/SR	6A230217	1
apomix	Wool alcohol cream DAB/SR	15A280617	4
apomix	Wool alcohol cream DAB/SR	18A070817	8
apomix	Wool alcohol cream DAB/SR	25A231117	4
apomix	Wool alcohol cream DAB/SR	3A110118	2
apomix	Wool alcohol cream DAB/SR	11A050418	7
apomix	Wool alcohol cream DAB/SR	12A070518	6
apomix	Wool alcohol cream DAB/SR	20A240718	6
apomix	Wool alcohol cream DAB/SR	22A200818	5
apomix	Wool alcohol cream DAB/SR	1A150119	1
apomix	Wool alcohol cream DAB/SR	88A231013	1
apomix	Wool alcohol cream DAB/SR	57A300614	1
apomix	Wool alcohol cream DAB/SR	6A220115	1
apomix	Wool alcohol cream DAB/SR	72-A190814	1
apomix	Wool alcohol cream DAB/SR	41A230415	1
apomix	Wool alcohol cream DAB/SR	46A27515	1
apomix	Wool alcohol cream DAB/SR	69A120815	1
apomix	Wool alcohol cream DAB/SR	100A191213	1
apomix	Wool alcohol cream DAB/SR	64A300714	1
apomix	Wool alcohol cream DAB/SR	4A220115	1
apomix	Wool alcohol cream DAB/SR	42A290816	1
apomix	Wool alcohol cream DAB/SR	81A100915	1
apomix	Wool alcohol cream DAB/SR	23A200818	3
apomix	Wool alcohol cream DAB/SR	11A040719	3
apomix	Wool alcohol cream DAB/SR	13A070518	7
apomix	Wool alcohol cream DAB/SR	8A030418	1
apomix	Wool alcohol cream DAB/SR	17A230718	2
apomix	Wool alcohol cream DAB/SR	24A091018	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Wool alcohol cream DAB/SR	21A200818	1
apomix	Wool alcohol cream DAB/SR	25A101018	2
apomix	Wool alcohol cream DAB/SR	21A280214	2
apomix	Wool alcohol cream DAB/SR	33A010414	1
apomix	Wool alcohol cream DAB/SR	48A110614	2
apomix	Wool alcohol cream DAB/SR	85A300914	2
apomix	Wool alcohol cream DAB/SR	13A180214	1
apomix	Wool alcohol cream DAB/SR	25a170316	1
apomix	Wool alcohol cream DAB/SR	6a230217	1
apomix	Wool alcohol cream DAB/SR	65A060715	1
apomix	Wool alcohol cream DAB/SR	15A160216	3
apomix	Wool alcohol cream DAB/SR	36A250516	2
apomix	Wool alcohol cream DAB/SR	39A050716	9
apomix	Wool alcohol cream DAB/SR	48A021116	3
apomix	Wool alcohol cream DAB/SR	45A041016	2
apomix	Wool alcohol cream DAB/SR	8A060317	3
apomix	Wool alcohol cream DAB/SR	9A260417	3
apomix	Wool alcohol cream DAB/SR	4A110118	2
apomix	Wool alcohol cream DAB/SR	7A130218	3
apomix	Wool alcohol cream DAB/SR	10A040418	14
apomix	Wool alcohol cream DAB/SR	15A130618	7
apomix	Wool alcohol cream DAB/SR	18A230718	6
apomix	Wool alcohol cream DAB/SR	6A210519	5
apomix	Wool alcohol cream DAB/SR	69A080814	1
apomix	Wool alcohol cream DAB/SR	9A050215	1
apomix	Wool alcohol cream DAB/SR	41A150514	1
apomix	Wool alcohol cream DAB/SR	13A010617	6
apomix	Wool alcohol cream DAB/SR	28A191218	5
apomix	Wool alcohol cream DAB/SR	13A150216	2
apomix	Wool alcohol cream DAB/SR	10A030719	2
apomix	Wool alcohol cream DAB/SR	92A111115	2
apomix	Wool alcohol cream DAB/SR	1A120117	1
apomix	Wool alcohol cream DAB/SR	3A010217	1
apomix	Wool alcohol cream DAB/SR	22A300817	4
apomix	Wool alcohol cream DAB/SR	15A30618	1
apomix	Wool alcohol cream DAB/SR	15A136018	1
apomix	Wool alcohol cream DAB/SR	4A060319	2
apomix	Wool alcohol cream DAB/SR	102A091215	1
apomix	Wool alcohol cream DAB/SR	16A130618	4
apomix	Wool alcohol cream DAB/SR	66A060715	2
apomix	Wool alcohol cream DAB/SR	89A041113	1
apomix	Wool alcohol cream DAB/SR	4546233	1
apomix	Wool alcohol cream DAB/SR	104A111214	1
apomix	Wool alcohol cream DAB/SR	50A110614	1
apomix	Wool alcohol cream DAB/SR	15A230215	1
apomix	Wool alcohol cream DAB/SR	37A220415	2
apomix	Wool alcohol cream DAB/SR	87A061015	1
apomix	Wool alcohol cream DAB/SR	104A091215	1
apomix	Wool alcohol cream DAB/SR	10A270417	1
apomix	Wool alcohol cream DAB/SR	16A290617	1
apomix	Wool alcohol cream DAB/SR	16A070817	2
apomix	Wool alcohol cream DAB/SR	27a211118	1
apomix	Wool alcohol cream DAB/SR	6A120218	3
apomix	Wool alcohol cream DAB/SR	108A191112	1
apomix	Wool alcohol cream DAB/SR	5A200114	1
apomix	Wool alcohol cream DAB/SR	78A160913	1
apomix	Wool alcohol cream DAB/SR	93A111115	1
apomix	Wool alcohol cream DAB/SR	34A250516	7
apomix	Wool alcohol cream DAB/SR	11A270417	1
apomix	Wool alcohol cream DAB/SR	90A221014	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
apomix	Wool alcohol cream DAB/SR	75A130815	1
apomix	Wool alcohol cream DAB/SR	42a290816	1
apomix	Wool alcohol cream DAB/SR	81A260913	1
apomix	Wool alcohol cream DAB/SR	20A270214	1
apomix	Wool alcohol cream DAB/SR	12A040214	1
apomix	Wool alcohol cream DAB/SR	81A290914	1
apomix	Wool alcohol cream DAB/SR	105A301214	1
apomix	Wool alcohol cream DAB/SR	17A230215	1
apomix	Wool alcohol cream DAB/SR	62A250615	1
apomix	Wool alcohol cream DAB/SR	77A260815	1
apomix	Wool alcohol cream DAB/SR	301311	2
apomix	Wool alcohol cream DAB/SR	38A050716	1
apomix	Wool alcohol cream DAB/SR	44A041016	1
apomix	Wool alcohol cream DAB/SR	2A120117	6
apomix	Wool alcohol cream DAB/SR	20A070817	1
apomix	Wool alcohol cream DAB/SR	3A1101118	1
apomix	Wool alcohol cream DAB/SR	6A21019	1
apomix	Wool alcohol cream DAB/SR	43A200515	1
apomix	Wool alcohol cream DAB/SR	47A040613	3
apomix	Wool alcohol cream DAB/SR	5A220115	1
apomix	Wool alcohol cream DAB/SR	14A180215	4
apomix	Wool alcohol cream DAB/SR	89A291015	3
apomix	Wool alcohol cream DAB/SR	90A291015	1
apomix	Wool alcohol cream DAB/SR	87A141014	1
apomix	Wool alcohol cream DAB/SR	99A021214	1
apomix	Wool alcohol cream DAB/SR	36A220415	2
apomix	Wool alcohol cream DAB/SR	64A250615	2
apomix	Wool alcohol cream DAB/SR	31A110416	2
apomix	Wool alcohol cream DAB/SR	24A221117	4
apomix	Wool alcohol cream DAB/SR	1A070116	1
apomix	Wool alcohol cream DAB/SR	3A130219	8
Apotheke zum Zirkel	Wool alcohol cream DAB/SR	519E-01371	3
Beiersdorf/Alliance	Wool alcohol cream DAB/SR	51630108WA	1
Spangropharm	Wool alcohol cream DAB/SR	83730208WA	1
Bombast/spangro	Wool alcohol cream DAB/SR	18000770	9
Bombastus	Wool alcohol cream DAB/SR	291432	1
Bombastus	Wool alcohol cream DAB/SR	288354	2
Bombastus	Wool alcohol cream DAB/SR	291479	1
Bombastus	Wool alcohol cream DAB/SR	291477	1
Bombastus	Wool alcohol cream DAB/SR	291478	1
Bombastus	Wool alcohol cream DAB/SR	296133	3
Bombastus	Wool alcohol cream DAB/SR	311459	3
Bombastus	Wool alcohol cream DAB/SR	267043	1
Bombastus	Wool alcohol cream DAB/SR	265304	1
Bombastus	Wool alcohol cream DAB/SR	267046	1
Bombastus	Wool alcohol cream DAB/SR	269832	1
Bombastus	Wool alcohol cream DAB/SR	270038	1
Bombastus	Wool alcohol cream DAB/SR	270033	1
Bombastus	Wool alcohol cream DAB/SR	270033	1
Bombastus	Wool alcohol cream DAB/SR	273631	2
Bombastus	Wool alcohol cream DAB/SR	271811	1
Bombastus	Wool alcohol cream DAB/SR	272263	1
Bombastus	Wool alcohol cream DAB/SR	275987	1
Bombastus	Wool alcohol cream DAB/SR	274628	1
Bombastus	Wool alcohol cream DAB/SR	274348	1
Bombastus	Wool alcohol cream DAB/SR	274630	1
Bombastus	Wool alcohol cream DAB/SR	274347	1
Bombastus	Wool alcohol cream DAB/SR	276219	2
Bombastus	Wool alcohol cream DAB/SR	275917	2
Bombastus	Wool alcohol cream DAB/SR	275911	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	274634	1
Bombastus	Wool alcohol cream DAB/SR	275990	1
Bombastus	Wool alcohol cream DAB/SR	276214	1
Bombastus	Wool alcohol cream DAB/SR	275991	1
Bombastus	Wool alcohol cream DAB/SR	275918	1
Bombastus	Wool alcohol cream DAB/SR	277096	1
Bombastus	Wool alcohol cream DAB/SR	278742	1
Bombastus	Wool alcohol cream DAB/SR	277206	1
Bombastus	Wool alcohol cream DAB/SR	278745	2
Bombastus	Wool alcohol cream DAB/SR	277855	2
Bombastus	Wool alcohol cream DAB/SR	277771	1
Bombastus	Wool alcohol cream DAB/SR	276212	1
Bombastus	Wool alcohol cream DAB/SR	277097	1
Bombastus	Wool alcohol cream DAB/SR	27771	1
Bombastus	Wool alcohol cream DAB/SR	277204	1
Bombastus	Wool alcohol cream DAB/SR	278827	1
Bombastus	Wool alcohol cream DAB/SR	278831	2
Bombastus	Wool alcohol cream DAB/SR	277208	1
Bombastus	Wool alcohol cream DAB/SR	278744	2
Bombastus	Wool alcohol cream DAB/SR	279875	2
Bombastus	Wool alcohol cream DAB/SR	280390	2
Bombastus	Wool alcohol cream DAB/SR	282239	2
Bombastus	Wool alcohol cream DAB/SR	280386	1
Bombastus	Wool alcohol cream DAB/SR	282685	1
Bombastus	Wool alcohol cream DAB/SR	282684	1
Bombastus	Wool alcohol cream DAB/SR	282750	1
Bombastus	Wool alcohol cream DAB/SR	282246	1
Bombastus	Wool alcohol cream DAB/SR	284447	1
Bombastus	Wool alcohol cream DAB/SR	283575	2
Bombastus	Wool alcohol cream DAB/SR	282748	2
Bombastus	Wool alcohol cream DAB/SR	284577	1
Bombastus	Wool alcohol cream DAB/SR	284951	4
Bombastus	Wool alcohol cream DAB/SR	284582	1
Bombastus	Wool alcohol cream DAB/SR	285872	1
Bombastus	Wool alcohol cream DAB/SR	285874	2
Bombastus	Wool alcohol cream DAB/SR	287093	4
Bombastus	Wool alcohol cream DAB/SR	285875	1
Bombastus	Wool alcohol cream DAB/SR	286235	1
Bombastus	Wool alcohol cream DAB/SR	287087	2
Bombastus	Wool alcohol cream DAB/SR	2846336	1
Bombastus	Wool alcohol cream DAB/SR	288446	5
Bombastus	Wool alcohol cream DAB/SR	287176	1
Bombastus	Wool alcohol cream DAB/SR	289384	1
Bombastus	Wool alcohol cream DAB/SR	288443	2
Bombastus	Wool alcohol cream DAB/SR	289623	3
Bombastus	Wool alcohol cream DAB/SR	289622	1
Bombastus	Wool alcohol cream DAB/SR	289622	1
Bombastus	Wool alcohol cream DAB/SR	291272	1
Bombastus	Wool alcohol cream DAB/SR	291265	1
Bombastus	Wool alcohol cream DAB/SR	291479	1
Bombastus	Wool alcohol cream DAB/SR	291350	1
Bombastus	Wool alcohol cream DAB/SR	291476	4
Bombastus	Wool alcohol cream DAB/SR	291352	2
Bombastus	Wool alcohol cream DAB/SR	291264	1
Bombastus	Wool alcohol cream DAB/SR	291349	1
Bombastus	Wool alcohol cream DAB/SR	285872	1
Bombastus	Wool alcohol cream DAB/SR	289391	1
Bombastus	Wool alcohol cream DAB/SR	293067	1
Bombastus	Wool alcohol cream DAB/SR	294270	4
Bombastus	Wool alcohol cream DAB/SR	Test1234	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	293064	1
Bombastus	Wool alcohol cream DAB/SR	293066	1
Bombastus	Wool alcohol cream DAB/SR	289491	1
Bombastus	Wool alcohol cream DAB/SR	294333	2
Bombastus	Wool alcohol cream DAB/SR	296127	2
Bombastus	Wool alcohol cream DAB/SR	296134	2
Bombastus	Wool alcohol cream DAB/SR	296131	3
Bombastus	Wool alcohol cream DAB/SR	296130	1
Bombastus	Wool alcohol cream DAB/SR	296132	2
Bombastus	Wool alcohol cream DAB/SR	297413	4
Bombastus	Wool alcohol cream DAB/SR	297527	3
Bombastus	Wool alcohol cream DAB/SR	288260	1
Bombastus	Wool alcohol cream DAB/SR	297412	1
Bombastus	Wool alcohol cream DAB/SR	295464	1
Bombastus	Wool alcohol cream DAB/SR	298813	1
Bombastus	Wool alcohol cream DAB/SR	295465	1
Bombastus	Wool alcohol cream DAB/SR	297411	1
Bombastus	Wool alcohol cream DAB/SR	299784	5
Bombastus	Wool alcohol cream DAB/SR	299783	2
Bombastus	Wool alcohol cream DAB/SR	299226	2
Bombastus	Wool alcohol cream DAB/SR	299786	2
Bombastus	Wool alcohol cream DAB/SR	297523	1
Bombastus	Wool alcohol cream DAB/SR	300835	2
Bombastus	Wool alcohol cream DAB/SR	301312	4
Bombastus	Wool alcohol cream DAB/SR	298672	1
Bombastus	Wool alcohol cream DAB/SR	299229	1
Bombastus	Wool alcohol cream DAB/SR	300836	1
Bombastus	Wool alcohol cream DAB/SR	302030	4
Bombastus	Wool alcohol cream DAB/SR	299785	2
Bombastus	Wool alcohol cream DAB/SR	301309	4
Bombastus	Wool alcohol cream DAB/SR	300576	1
Bombastus	Wool alcohol cream DAB/SR	301883	4
Bombastus	Wool alcohol cream DAB/SR	303010	1
Bombastus	Wool alcohol cream DAB/SR	299235	1
Bombastus	Wool alcohol cream DAB/SR	301890	4
Bombastus	Wool alcohol cream DAB/SR	295532	1
Bombastus	Wool alcohol cream DAB/SR	302029	5
Bombastus	Wool alcohol cream DAB/SR	301880	1
Bombastus	Wool alcohol cream DAB/SR	303528	4
Bombastus	Wool alcohol cream DAB/SR	301887	5
Bombastus	Wool alcohol cream DAB/SR	301888	1
Bombastus	Wool alcohol cream DAB/SR	3029972	1
Bombastus	Wool alcohol cream DAB/SR	30297	1
Bombastus	Wool alcohol cream DAB/SR	301306	1
Bombastus	Wool alcohol cream DAB/SR	303525	2
Bombastus	Wool alcohol cream DAB/SR	6862317	1
Bombastus	Wool alcohol cream DAB/SR	302967	2
Bombastus	Wool alcohol cream DAB/SR	304432	5
Bombastus	Wool alcohol cream DAB/SR	303526	1
Bombastus	Wool alcohol cream DAB/SR	303527	1
Bombastus	Wool alcohol cream DAB/SR	306211	5
Bombastus	Wool alcohol cream DAB/SR	304433	2
Bombastus	Wool alcohol cream DAB/SR	306082	2
Bombastus	Wool alcohol cream DAB/SR	304431	5
Bombastus	Wool alcohol cream DAB/SR	60089704	1
Bombastus	Wool alcohol cream DAB/SR	306090	8
Bombastus	Wool alcohol cream DAB/SR	306214	3
Bombastus	Wool alcohol cream DAB/SR	306088	3
Bombastus	Wool alcohol cream DAB/SR	306213	1
Bombastus	Wool alcohol cream DAB/SR	307613	3

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	3068180	2
Bombastus	Wool alcohol cream DAB/SR	306816	5
Bombastus	Wool alcohol cream DAB/SR	307284	7
Bombastus	Wool alcohol cream DAB/SR	307621	6
Bombastus	Wool alcohol cream DAB/SR	308303	4
Bombastus	Wool alcohol cream DAB/SR	307623	4
Bombastus	Wool alcohol cream DAB/SR	307622	4
Bombastus	Wool alcohol cream DAB/SR	308304	1
Bombastus	Wool alcohol cream DAB/SR	308306	7
Bombastus	Wool alcohol cream DAB/SR	60080303	1
Bombastus	Wool alcohol cream DAB/SR	307289	1
Bombastus	Wool alcohol cream DAB/SR	308316	3
Bombastus	Wool alcohol cream DAB/SR	310579	2
Bombastus	Wool alcohol cream DAB/SR	308313	3
Bombastus	Wool alcohol cream DAB/SR	308683	3
Bombastus	Wool alcohol cream DAB/SR	310582	5
Bombastus	Wool alcohol cream DAB/SR	307283	2
Bombastus	Wool alcohol cream DAB/SR	308685	2
Bombastus	Wool alcohol cream DAB/SR	308309	3
Bombastus	Wool alcohol cream DAB/SR	308321	1
Bombastus	Wool alcohol cream DAB/SR	308312	7
Bombastus	Wool alcohol cream DAB/SR	310585	1
Bombastus	Wool alcohol cream DAB/SR	308315	2
Bombastus	Wool alcohol cream DAB/SR	311449	3
Bombastus	Wool alcohol cream DAB/SR	308311	2
Bombastus	Wool alcohol cream DAB/SR	307281	3
Bombastus	Wool alcohol cream DAB/SR	310584	4
Bombastus	Wool alcohol cream DAB/SR	311529	10
Bombastus	Wool alcohol cream DAB/SR	311456	1
Bombastus	Wool alcohol cream DAB/SR	311451	5
Bombastus	Wool alcohol cream DAB/SR	309641	1
Bombastus	Wool alcohol cream DAB/SR	309639	5
Bombastus	Wool alcohol cream DAB/SR	311523	7
Bombastus	Wool alcohol cream DAB/SR	17002210	11
Bombastus	Wool alcohol cream DAB/SR	311527	2
Bombastus	Wool alcohol cream DAB/SR	311457	2
Bombastus	Wool alcohol cream DAB/SR	17002209	5
Bombastus	Wool alcohol cream DAB/SR	18000764	5
Bombastus	Wool alcohol cream DAB/SR	17002205	1
Bombastus	Wool alcohol cream DAB/SR	17005148	1
Bombastus	Wool alcohol cream DAB/SR	18001373	6
Bombastus	Wool alcohol cream DAB/SR	18002542	4
Bombastus	Wool alcohol cream DAB/SR	17002204	1
Bombastus	Wool alcohol cream DAB/SR	18001380	6
Bombastus	Wool alcohol cream DAB/SR	18001378	6
Bombastus	Wool alcohol cream DAB/SR	18001376	5
Bombastus	Wool alcohol cream DAB/SR	230718A	1
Bombastus	Wool alcohol cream DAB/SR	250718A	1
Bombastus	Wool alcohol cream DAB/SR	18002412	9
Bombastus	Wool alcohol cream DAB/SR	18003998	4
Bombastus	Wool alcohol cream DAB/SR	18004058	8
Bombastus	Wool alcohol cream DAB/SR	18002408	2
Bombastus	Wool alcohol cream DAB/SR	18004015	2
Bombastus	Wool alcohol cream DAB/SR	18004059	2
Bombastus	Wool alcohol cream DAB/SR	18004062	3
Bombastus	Wool alcohol cream DAB/SR	18006134	4
Bombastus	Wool alcohol cream DAB/SR	19000027	2
Bombastus	Wool alcohol cream DAB/SR	18006647	5
Bombastus	Wool alcohol cream DAB/SR	18006845	4
Bombastus	Wool alcohol cream DAB/SR	19000026	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	19000021	3
Bombastus	Wool alcohol cream DAB/SR	6862292	1
Bombastus	Wool alcohol cream DAB/SR	1900020	3
Bombastus	Wool alcohol cream DAB/SR	19001825	1
Bombastus	Wool alcohol cream DAB/SR	19001838	1
Bombastus	Wool alcohol cream DAB/SR	18002535	1
Bombastus	Wool alcohol cream DAB/SR	19002147	2
Bombastus	Wool alcohol cream DAB/SR	19003091	2
Bombastus	Wool alcohol cream DAB/SR	19004081	1
Bombastus	Wool alcohol cream DAB/SR	20001948	1
Bombastus	Wool alcohol cream DAB/SR	289390	1
Bombastus	Wool alcohol cream DAB/SR	18000762	3
Bombastus	Wool alcohol cream DAB/SR	18004060	2
Bombastus	Wool alcohol cream DAB/SR	18006646	5
Bombastus	Wool alcohol cream DAB/SR	270723	1
Bombastus	Wool alcohol cream DAB/SR	272127	2
Bombastus	Wool alcohol cream DAB/SR	267154	2
Bombastus	Wool alcohol cream DAB/SR	292695	2
Bombastus	Wool alcohol cream DAB/SR	299227	1
Bombastus	Wool alcohol cream DAB/SR	278828	2
Bombastus	Wool alcohol cream DAB/SR	282242	3
Bombastus	Wool alcohol cream DAB/SR	284580	1
Bombastus	Wool alcohol cream DAB/SR	287179	2
Bombastus	Wool alcohol cream DAB/SR	288442	3
Bombastus	Wool alcohol cream DAB/SR	291348	2
Bombastus	Wool alcohol cream DAB/SR	295460	2
Bombastus	Wool alcohol cream DAB/SR	297528	3
Bombastus	Wool alcohol cream DAB/SR	285867	1
Bombastus	Wool alcohol cream DAB/SR	284450	1
Bombastus	Wool alcohol cream DAB/SR	295462	3
Bombastus	Wool alcohol cream DAB/SR	304429	3
Bombastus	Wool alcohol cream DAB/SR	18000750	1
Bombastus	Wool alcohol cream DAB/SR	18006642	6
Bombastus	Wool alcohol cream DAB/SR	18004717	1
Bombastus	Wool alcohol cream DAB/SR	19001830	1
Bombastus	Wool alcohol cream DAB/SR	308302	5
Bombastus	Wool alcohol cream DAB/SR	307285	1
Bombastus	Wool alcohol cream DAB/SR	18001377	5
Bombastus	Wool alcohol cream DAB/SR	294273	1
Bombastus	Wool alcohol cream DAB/SR	299780	1
Bombastus	Wool alcohol cream DAB/SR	18004719	7
Bombastus	Wool alcohol cream DAB/SR	306087	2
Bombastus	Wool alcohol cream DAB/SR	18002549	3
Bombastus	Wool alcohol cream DAB/SR	19001832	4
Bombastus	Wool alcohol cream DAB/SR	311452	4
Bombastus	Wool alcohol cream DAB/SR	311453	3
Bombastus	Wool alcohol cream DAB/SR	18002546	7
Bombastus	Wool alcohol cream DAB/SR	18002545	4
Bombastus	Wool alcohol cream DAB/SR	311524	6
Bombastus	Wool alcohol cream DAB/SR	18004002	5
Bombastus	Wool alcohol cream DAB/SR	289393	1
Bombastus	Wool alcohol cream DAB/SR	310578	3
Bombastus	Wool alcohol cream DAB/SR	18006839	5
Bombastus	Wool alcohol cream DAB/SR	18004056	1
Bombastus	Wool alcohol cream DAB/SR	289395	1
Bombastus	Wool alcohol cream DAB/SR	305256	1
Bombastus	Wool alcohol cream DAB/SR	306212	2
Bombastus	Wool alcohol cream DAB/SR	18002537	2
Bombastus	Wool alcohol cream DAB/SR	295528	1
Bombastus	Wool alcohol cream DAB/SR	295534	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	298815	2
Bombastus	Wool alcohol cream DAB/SR	300833	3
Bombastus	Wool alcohol cream DAB/SR	19000168	5
Bombastus	Wool alcohol cream DAB/SR	279020	1
Bombastus	Wool alcohol cream DAB/SR	281506	1
Bombastus	Wool alcohol cream DAB/SR	288261	1
Bombastus	Wool alcohol cream DAB/SR	294527	2
Bombastus	Wool alcohol cream DAB/SR	298679	5
Bombastus	Wool alcohol cream DAB/SR	299234	8
Bombastus	Wool alcohol cream DAB/SR	304435	11
Bombastus	Wool alcohol cream DAB/SR	294272	3
Bombastus	Wool alcohol cream DAB/SR	18000768	3
Bombastus	Wool alcohol cream DAB/SR	294330	2
Bombastus	Wool alcohol cream DAB/SR	18002543	4
Bombastus	Wool alcohol cream DAB/SR	310573	2
Bombastus	Wool alcohol cream DAB/SR	18002540	1
Bombastus	Wool alcohol cream DAB/SR	301889	2
Bombastus	Wool alcohol cream DAB/SR	18006838	3
Bombastus	Wool alcohol cream DAB/SR	270730	1
Bombastus	Wool alcohol cream DAB/SR	274849	1
Bombastus	Wool alcohol cream DAB/SR	284947	3
Bombastus	Wool alcohol cream DAB/SR	284948	2
Bombastus	Wool alcohol cream DAB/SR	289632	1
Bombastus	Wool alcohol cream DAB/SR	273634	2
Bombastus	Wool alcohol cream DAB/SR	279877	2
Bombastus	Wool alcohol cream DAB/SR	302964	1
Bombastus	Wool alcohol cream DAB/SR	304421	1
Bombastus	Wool alcohol cream DAB/SR	300831	1
Bombastus	Wool alcohol cream DAB/SR	284451	3
Bombastus	Wool alcohol cream DAB/SR	285868	2
Bombastus	Wool alcohol cream DAB/SR	289394	1
Bombastus	Wool alcohol cream DAB/SR	289395	1
Bombastus	Wool alcohol cream DAB/SR	289088	1
Bombastus	Wool alcohol cream DAB/SR	289489	2
Bombastus	Wool alcohol cream DAB/SR	295529	6
Bombastus	Wool alcohol cream DAB/SR	18002550	3
Bombastus	Wool alcohol cream DAB/SR	19000163	7
Bombastus	Wool alcohol cream DAB/SR	286237	2
Bombastus	Wool alcohol cream DAB/SR	40/14	1
Bombastus	Wool alcohol cream DAB/SR	18002552	6
Bombastus	Wool alcohol cream DAB/SR	19000022	6
Bombastus	Wool alcohol cream DAB/SR	19001833	1
Bombastus	Wool alcohol cream DAB/SR	284445	1
Bombastus	Wool alcohol cream DAB/SR	287085	1
Bombastus	Wool alcohol cream DAB/SR	292769	1
Bombastus	Wool alcohol cream DAB/SR	298678	2
Bombastus	Wool alcohol cream DAB/SR	19003088	2
Bombastus	Wool alcohol cream DAB/SR	60080302	3
Bombastus	Wool alcohol cream DAB/SR	294529	1
Bombastus	Wool alcohol cream DAB/SR	300581	4
Bombastus	Wool alcohol cream DAB/SR	293069	4
Bombastus	Wool alcohol cream DAB/SR	291352	1
Bombastus	Wool alcohol cream DAB/SR	289487	2
Bombastus	Wool alcohol cream DAB/SR	294271	2
Bombastus	Wool alcohol cream DAB/SR	302970	5
Bombastus	Wool alcohol cream DAB/SR	19001839	3
Bombastus	Wool alcohol cream DAB/SR	19002149	1
Bombastus	Wool alcohol cream DAB/SR	19002152	2
Bombastus	Wool alcohol cream DAB/SR	302969	3
Bombastus	Wool alcohol cream DAB/SR	19001836	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	269924	1
Bombastus	Wool alcohol cream DAB/SR	272259	2
Bombastus	Wool alcohol cream DAB/SR	274629	1
Bombastus	Wool alcohol cream DAB/SR	278749	1
Bombastus	Wool alcohol cream DAB/SR	284446	1
Bombastus	Wool alcohol cream DAB/SR	285817	1
Bombastus	Wool alcohol cream DAB/SR	288441	1
Bombastus	Wool alcohol cream DAB/SR	17002202	1
Bombastus	Wool alcohol cream DAB/SR	18000758	1
Bombastus	Wool alcohol cream DAB/SR	18000760	1
Bombastus	Wool alcohol cream DAB/SR	19000015	1
Bombastus	Wool alcohol cream DAB/SR	19001826	1
Bombastus	Wool alcohol cream DAB/SR	18004061	1
Bombastus	Wool alcohol cream DAB/SR	18002547	2
Bombastus	Wool alcohol cream DAB/SR	18004057	6
Bombastus	Wool alcohol cream DAB/SR	306219	3
Bombastus	Wool alcohol cream DAB/SR	306822	6
Bombastus	Wool alcohol cream DAB/SR	17002147	5
Bombastus	Wool alcohol cream DAB/SR	279019	2
Bombastus	Wool alcohol cream DAB/SR	288259	2
Bombastus	Wool alcohol cream DAB/SR	288260	1
Bombastus	Wool alcohol cream DAB/SR	289088	1
Bombastus	Wool alcohol cream DAB/SR	280988	1
Bombastus	Wool alcohol cream DAB/SR	289620	1
Bombastus	Wool alcohol cream DAB/SR	306089	2
Bombastus	Wool alcohol cream DAB/SR	18002553	4
Bombastus	Wool alcohol cream DAB/SR	18004720	6
Bombastus	Wool alcohol cream DAB/SR	19002141	4
Bombastus	Wool alcohol cream DAB/SR	298817	3
Bombastus	Wool alcohol cream DAB/SR	298677	3
Bombastus	Wool alcohol cream DAB/SR	305261	1
Bombastus	Wool alcohol cream DAB/SR	311455	4
Bombastus	Wool alcohol cream DAB/SR	17002207	3
Bombastus	Wool alcohol cream DAB/SR	283574	1
Bombastus	Wool alcohol cream DAB/SR	277097	1
Bombastus	Wool alcohol cream DAB/SR	282754	6
Bombastus	Wool alcohol cream DAB/SR	278832	1
Bombastus	Wool alcohol cream DAB/SR	284579	4
Bombastus	Wool alcohol cream DAB/SR	293063	1
Bombastus	Wool alcohol cream DAB/SR	300583	6
Bombastus	Wool alcohol cream DAB/SR	301891	5
Bombastus	Wool alcohol cream DAB/SR	17002149	4
Bombastus	Wool alcohol cream DAB/SR	19002145	3
Bombastus	Wool alcohol cream DAB/SR	276216	1
Bombastus	Wool alcohol cream DAB/SR	277769	3
Bombastus	Wool alcohol cream DAB/SR	306818	2
Bombastus	Wool alcohol cream DAB/SR	19003089	1
Bombastus	Wool alcohol cream DAB/SR	302031	9
Bombastus	Wool alcohol cream DAB/SR	302966	7
Bombastus	Wool alcohol cream DAB/SR	19002142	6
Bombastus	Wool alcohol cream DAB/SR	20000661	1
Bombastus	Wool alcohol cream DAB/SR	278824	2
Bombastus	Wool alcohol cream DAB/SR	281504	2
Bombastus	Wool alcohol cream DAB/SR	279870	2
Bombastus	Wool alcohol cream DAB/SR	47/14	1
Bombastus	Wool alcohol cream DAB/SR	298674	2
Bombastus	Wool alcohol cream DAB/SR	295537	1
Bombastus	Wool alcohol cream DAB/SR	306820	2
Bombastus	Wool alcohol cream DAB/SR	307626	3
Bombastus	Wool alcohol cream DAB/SR	309636	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	307616	1
Bombastus	Wool alcohol cream DAB/SR	418M-03938	1
Bombastus	Wool alcohol cream DAB/SR	311454	4
Bombastus	Wool alcohol cream DAB/SR	311447	3
Bombastus	Wool alcohol cream DAB/SR	18000757	2
Bombastus	Wool alcohol cream DAB/SR	18002416	5
Bombastus	Wool alcohol cream DAB/SR	18004000	1
Bombastus	Wool alcohol cream DAB/SR	17002203	1
Bombastus	Wool alcohol cream DAB/SR	18004722	8
Bombastus	Wool alcohol cream DAB/SR	18006645	6
Bombastus	Wool alcohol cream DAB/SR	19000166	1
Bombastus	Wool alcohol cream DAB/SR	60089702	1
Bombastus	Wool alcohol cream DAB/SR	19002148	4
Bombastus	Wool alcohol cream DAB/SR	19002146	1
Bombastus	Wool alcohol cream DAB/SR	18001375	3
Bombastus	Wool alcohol cream DAB/SR	18002538	2
Bombastus	Wool alcohol cream DAB/SR	310580	4
Bombastus	Wool alcohol cream DAB/SR	18000769	5
Bombastus	Wool alcohol cream DAB/SR	295536	11
Bombastus	Wool alcohol cream DAB/SR	305257	6
Bombastus	Wool alcohol cream DAB/SR	18004013	10
Bombastus	Wool alcohol cream DAB/SR	19001827	1
Bombastus	Wool alcohol cream DAB/SR	297530	2
Bombastus	Wool alcohol cream DAB/SR	306083	2
Bombastus	Wool alcohol cream DAB/SR	3083301	1
Bombastus	Wool alcohol cream DAB/SR	310581	3
Bombastus	Wool alcohol cream DAB/SR	17002208	5
Bombastus	Wool alcohol cream DAB/SR	19001834	3
Bombastus	Wool alcohol cream DAB/SR	307624	5
Bombastus	Wool alcohol cream DAB/SR	306215	7
Bombastus	Wool alcohol cream DAB/SR	308684	4
Bombastus	Wool alcohol cream DAB/SR	18006644	3
Bombastus	Wool alcohol cream DAB/SR	18006842	7
Bombastus	Wool alcohol cream DAB/SR	269927	1
Bombastus	Wool alcohol cream DAB/SR	272257	2
Bombastus	Wool alcohol cream DAB/SR	273633	1
Bombastus	Wool alcohol cream DAB/SR	274631	1
Bombastus	Wool alcohol cream DAB/SR	275913	1
Bombastus	Wool alcohol cream DAB/SR	277770	2
Bombastus	Wool alcohol cream DAB/SR	285869	1
Bombastus	Wool alcohol cream DAB/SR	28/7175	1
Bombastus	Wool alcohol cream DAB/SR	300577	7
Bombastus	Wool alcohol cream DAB/SR	298814	1
Bombastus	Wool alcohol cream DAB/SR	301885	3
Bombastus	Wool alcohol cream DAB/SR	301305	1
Bombastus	Wool alcohol cream DAB/SR	306080	1
Bombastus	Wool alcohol cream DAB/SR	18000765	5
Bombastus	Wool alcohol cream DAB/SR	18001374	3
Bombastus	Wool alcohol cream DAB/SR	18002539	2
Bombastus	Wool alcohol cream DAB/SR	18002541	2
Bombastus	Wool alcohol cream DAB/SR	18002536	1
Bombastus	Wool alcohol cream DAB/SR	18004055	5
Bombastus	Wool alcohol cream DAB/SR	18004715	1
Bombastus	Wool alcohol cream DAB/SR	18006648	5
Bombastus	Wool alcohol cream DAB/SR	18004714	1
Bombastus	Wool alcohol cream DAB/SR	19000020	1
Bombastus	Wool alcohol cream DAB/SR	19001828	1
Bombastus	Wool alcohol cream DAB/SR	19000167	2
Bombastus	Wool alcohol cream DAB/SR	19001831	1
Bombastus	Wool alcohol cream DAB/SR	19003084	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	19002150	1
Bombastus	Wool alcohol cream DAB/SR	19003085	1
Bombastus	Wool alcohol cream DAB/SR	19004267	1
Bombastus	Wool alcohol cream DAB/SR	19005760	1
Bombastus	Wool alcohol cream DAB/SR	19005503	1
Bombastus	Wool alcohol cream DAB/SR	4a110118	1
Bombastus	Wool alcohol cream DAB/SR	284636	3
Bombastus	Wool alcohol cream DAB/SR	19000019	4
Bombastus	Wool alcohol cream DAB/SR	19000024	4
Bombastus	Wool alcohol cream DAB/SR	19000165	3
Bombastus	Wool alcohol cream DAB/SR	299231	4
Bombastus	Wool alcohol cream DAB/SR	299230	6
Bombastus	Wool alcohol cream DAB/SR	298668	1
Bombastus	Wool alcohol cream DAB/SR	19000170	2
Bombastus	Wool alcohol cream DAB/SR	19003122	1
Bombastus	Wool alcohol cream DAB/SR	279021	1
Bombastus	Wool alcohol cream DAB/SR	286234	2
Bombastus	Wool alcohol cream DAB/SR	288350	1
Bombastus	Wool alcohol cream DAB/SR	289091	2
Bombastus	Wool alcohol cream DAB/SR	291347	1
Bombastus	Wool alcohol cream DAB/SR	292693	2
Bombastus	Wool alcohol cream DAB/SR	294532	2
Bombastus	Wool alcohol cream DAB/SR	294332	1
Bombastus	Wool alcohol cream DAB/SR	300578	4
Bombastus	Wool alcohol cream DAB/SR	306085	1
Bombastus	Wool alcohol cream DAB/SR	305254	1
Bombastus	Wool alcohol cream DAB/SR	307617	5
Bombastus	Wool alcohol cream DAB/SR	307618	4
Bombastus	Wool alcohol cream DAB/SR	308686	5
Bombastus	Wool alcohol cream DAB/SR	308310	8
Bombastus	Wool alcohol cream DAB/SR	311448	5
Bombastus	Wool alcohol cream DAB/SR	311528	8
Bombastus	Wool alcohol cream DAB/SR	307620	1
Bombastus	Wool alcohol cream DAB/SR	18002411	3
Bombastus	Wool alcohol cream DAB/SR	18002415	4
Bombastus	Wool alcohol cream DAB/SR	18003997	3
Bombastus	Wool alcohol cream DAB/SR	19002144	1
Bombastus	Wool alcohol cream DAB/SR	19004261	1
Bombastus	Wool alcohol cream DAB/SR	298816	4
Bombastus	Wool alcohol cream DAB/SR	298812	3
Bombastus	Wool alcohol cream DAB/SR	299782	8
Bombastus	Wool alcohol cream DAB/SR	300837	2
Bombastus	Wool alcohol cream DAB/SR	300834	3
Bombastus	Wool alcohol cream DAB/SR	305260	6
Bombastus	Wool alcohol cream DAB/SR	306084	3
Bombastus	Wool alcohol cream DAB/SR	307286	3
Bombastus	Wool alcohol cream DAB/SR	306817	1
Bombastus	Wool alcohol cream DAB/SR	17002146	2
Bombastus	Wool alcohol cream DAB/SR	17002212	2
Bombastus	Wool alcohol cream DAB/SR	18003999	6
Bombastus	Wool alcohol cream DAB/SR	18002406	1
Bombastus	Wool alcohol cream DAB/SR	191230111	1
Bombastus	Wool alcohol cream DAB/SR	305255	6
Bombastus	Wool alcohol cream DAB/SR	307282	4
Bombastus	Wool alcohol cream DAB/SR	274683	2
Bombastus	Wool alcohol cream DAB/SR	278829	2
Bombastus	Wool alcohol cream DAB/SR	281503	2
Bombastus	Wool alcohol cream DAB/SR	286238	1
Bombastus	Wool alcohol cream DAB/SR	280391	1
Bombastus	Wool alcohol cream DAB/SR	289087	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	288259	2
Bombastus	Wool alcohol cream DAB/SR	289396	1
Bombastus	Wool alcohol cream DAB/SR	291433	1
Bombastus	Wool alcohol cream DAB/SR	291479	1
Bombastus	Wool alcohol cream DAB/SR	292694	1
Bombastus	Wool alcohol cream DAB/SR	295463	4
Bombastus	Wool alcohol cream DAB/SR	295218	1
Bombastus	Wool alcohol cream DAB/SR	297526	2
Bombastus	Wool alcohol cream DAB/SR	299787	1
Bombastus	Wool alcohol cream DAB/SR	303529	1
Bombastus	Wool alcohol cream DAB/SR	303524	3
Bombastus	Wool alcohol cream DAB/SR	311450	1
Bombastus	Wool alcohol cream DAB/SR	18000767	2
Bombastus	Wool alcohol cream DAB/SR	18004063	2
Bombastus	Wool alcohol cream DAB/SR	108002412	1
Bombastus	Wool alcohol cream DAB/SR	1800762	1
Bombastus	Wool alcohol cream DAB/SR	19000169	4
Bombastus	Wool alcohol cream DAB/SR	19000018	1
Bombastus	Wool alcohol cream DAB/SR	19003092	1
Bombastus	Wool alcohol cream DAB/SR	190991109	1
Bombastus	Wool alcohol cream DAB/SR	289091	2
Bombastus	Wool alcohol cream DAB/SR	308689	2
Bombastus	Wool alcohol cream DAB/SR	310577	2
Bombastus	Wool alcohol cream DAB/SR	18002413	7
Bombastus	Wool alcohol cream DAB/SR	18006843	6
Bombastus	Wool alcohol cream DAB/SR	19000025	7
Bombastus	Wool alcohol cream DAB/SR	277854	1
Bombastus	Wool alcohol cream DAB/SR	292697	1
Bombastus	Wool alcohol cream DAB/SR	301892	1
Bombastus	Wool alcohol cream DAB/SR	17197320	1
Bombastus	Wool alcohol cream DAB/SR	19001835	2
Bombastus	Wool alcohol cream DAB/SR	17002150	6
Bombastus	Wool alcohol cream DAB/SR	265303	2
Bombastus	Wool alcohol cream DAB/SR	267799	1
Bombastus	Wool alcohol cream DAB/SR	270035	2
Bombastus	Wool alcohol cream DAB/SR	270037	2
Bombastus	Wool alcohol cream DAB/SR	273637	1
Bombastus	Wool alcohol cream DAB/SR	273636	1
Bombastus	Wool alcohol cream DAB/SR	277093	1
Bombastus	Wool alcohol cream DAB/SR	278833	1
Bombastus	Wool alcohol cream DAB/SR	297531	6
Bombastus	Wool alcohol cream DAB/SR	297529	4
Bombastus	Wool alcohol cream DAB/SR	297533	1
Bombastus	Wool alcohol cream DAB/SR	299233	3
Bombastus	Wool alcohol cream DAB/SR	299232	2
Bombastus	Wool alcohol cream DAB/SR	300579	2
Bombastus	Wool alcohol cream DAB/SR	302033	6
Bombastus	Wool alcohol cream DAB/SR	304437	3
Bombastus	Wool alcohol cream DAB/SR	304436	12
Bombastus	Wool alcohol cream DAB/SR	306217	6
Bombastus	Wool alcohol cream DAB/SR	305259	3
Bombastus	Wool alcohol cream DAB/SR	308301	8
Bombastus	Wool alcohol cream DAB/SR	308688	8
Bombastus	Wool alcohol cream DAB/SR	308687	6
Bombastus	Wool alcohol cream DAB/SR	308314	7
Bombastus	Wool alcohol cream DAB/SR	310585	4
Bombastus	Wool alcohol cream DAB/SR	311458	6
Bombastus	Wool alcohol cream DAB/SR	17002211	4
Bombastus	Wool alcohol cream DAB/SR	18002544	5
Bombastus	Wool alcohol cream DAB/SR	18002548	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	18004014	4
Bombastus	Wool alcohol cream DAB/SR	18002551	4
Bombastus	Wool alcohol cream DAB/SR	18004724	9
Bombastus	Wool alcohol cream DAB/SR	18006840	5
Bombastus	Wool alcohol cream DAB/SR	19000161	11
Bombastus	Wool alcohol cream DAB/SR	19001841	8
Bombastus	Wool alcohol cream DAB/SR	19005758	1
Bombastus	Wool alcohol cream DAB/SR	20003760	1
Bombastus	Wool alcohol cream DAB/SR	291267	1
Bombastus	Wool alcohol cream DAB/SR	277856	3
Bombastus	Wool alcohol cream DAB/SR	308307	8
Bombastus	Wool alcohol cream DAB/SR	311525	6
Bombastus	Wool alcohol cream DAB/SR	18004718	6
Bombastus	Wool alcohol cream DAB/SR	18004725	4
Bombastus	Wool alcohol cream DAB/SR	17002148	1
Bombastus	Wool alcohol cream DAB/SR	18000763	5
Bombastus	Wool alcohol cream DAB/SR	298676	1
Bombastus	Wool alcohol cream DAB/SR	299228	2
Bombastus	Wool alcohol cream DAB/SR	307619	1
Bombastus	Wool alcohol cream DAB/SR	18000766	2
Bombastus	Wool alcohol cream DAB/SR	18004716	4
Bombastus	Wool alcohol cream DAB/SR	284943	1
Bombastus	Wool alcohol cream DAB/SR	301308	2
Bombatus	Wool alcohol cream DAB/SR	18006641	2
Bombstus	Wool alcohol cream DAB/SR	302032	4
Bumbastus	Wool alcohol cream DAB/SR	302972	8
Caelo	Wool alcohol cream DAB/SR	12240502	1
Caelo	Wool alcohol cream DAB/SR	13061501	14
Caelo	Wool alcohol cream DAB/SR	1306804	1
Caelo	Wool alcohol cream DAB/SR	13279502	4
Caelo	Wool alcohol cream DAB/SR	14046501	4
Caelo	Wool alcohol cream DAB/SR	14170801	1
Caelo	Wool alcohol cream DAB/SR	14246201	1
Caelo	Wool alcohol cream DAB/SR	20161102-2	1
Caelo	Wool alcohol cream DAB/SR	15361601	1
Caelo	Wool alcohol cream DAB/SR	16313002	12
Caelo	Wool alcohol cream DAB/SR	17156102	7
Caelo	Wool alcohol cream DAB/SR	18104401	23
Caelo	Wool alcohol cream DAB/SR	18241401	54
Caelo	Wool alcohol cream DAB/SR	18262501	23
Caelo	Wool alcohol cream DAB/SR	11228001	2
Caelo	Wool alcohol cream DAB/SR	11356201	1
Caelo	Wool alcohol cream DAB/SR	11356501	1
Caelo	Wool alcohol cream DAB/SR	12001301	1
Caelo	Wool alcohol cream DAB/SR	12106001	1
Caelo	Wool alcohol cream DAB/SR	12030601	2
Caelo	Wool alcohol cream DAB/SR	1117601	1
Caelo	Wool alcohol cream DAB/SR	12056401	2
Caelo	Wool alcohol cream DAB/SR	11226401	1
Caelo	Wool alcohol cream DAB/SR	12106401	3
Caelo	Wool alcohol cream DAB/SR	11226301	1
Caelo	Wool alcohol cream DAB/SR	12036501	7
Caelo	Wool alcohol cream DAB/SR	12122002	3
Caelo	Wool alcohol cream DAB/SR	12122101	4
Caelo	Wool alcohol cream DAB/SR	12106701	2
Caelo	Wool alcohol cream DAB/SR	12000301	1
Caelo	Wool alcohol cream DAB/SR	11356001	1
Caelo	Wool alcohol cream DAB/SR	25091204	1
Caelo	Wool alcohol cream DAB/SR	1212202	1
Caelo	Wool alcohol cream DAB/SR	12205701	4

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	12269201	5
Caelo	Wool alcohol cream DAB/SR	1226901	1
Caelo	Wool alcohol cream DAB/SR	12205801	3
Caelo	Wool alcohol cream DAB/SR	12036402	2
Caelo	Wool alcohol cream DAB/SR	11171501	1
Caelo	Wool alcohol cream DAB/SR	12036601	6
Caelo	Wool alcohol cream DAB/SR	12101602	1
Caelo	Wool alcohol cream DAB/SR	12205402	4
Caelo	Wool alcohol cream DAB/SR	12205501	1
Caelo	Wool alcohol cream DAB/SR	12123501	7
Caelo	Wool alcohol cream DAB/SR	12307401	8
Caelo	Wool alcohol cream DAB/SR	2112217035	1
Caelo	Wool alcohol cream DAB/SR	20101112-1	1
Caelo	Wool alcohol cream DAB/SR	12259701	3
Caelo	Wool alcohol cream DAB/SR	12307103	4
Caelo	Wool alcohol cream DAB/SR	12307601	6
Caelo	Wool alcohol cream DAB/SR	12122001	4
Caelo	Wool alcohol cream DAB/SR	23021303	1
Caelo	Wool alcohol cream DAB/SR	12351901	5
Caelo	Wool alcohol cream DAB/SR	13029503	7
Caelo	Wool alcohol cream DAB/SR	12036301	2
Caelo	Wool alcohol cream DAB/SR	12307102	1
Caelo	Wool alcohol cream DAB/SR	13068503	3
Caelo	Wool alcohol cream DAB/SR	13068601	8
Caelo	Wool alcohol cream DAB/SR	12259802	2
Caelo	Wool alcohol cream DAB/SR	115A171212	1
Caelo	Wool alcohol cream DAB/SR	13061601	5
Caelo	Wool alcohol cream DAB/SR	1913Q-01371	1
Caelo	Wool alcohol cream DAB/SR	13062201	4
Caelo	Wool alcohol cream DAB/SR	E-090413-3	1
Caelo	Wool alcohol cream DAB/SR	13145202	7
Caelo	Wool alcohol cream DAB/SR	13068701	9
Caelo	Wool alcohol cream DAB/SR	13145701	4
Caelo	Wool alcohol cream DAB/SR	12370401	1
Caelo	Wool alcohol cream DAB/SR	9071301	1
Caelo	Wool alcohol cream DAB/SR	13172001	8
Caelo	Wool alcohol cream DAB/SR	13029502	1
Caelo	Wool alcohol cream DAB/SR	13061401	2
Caelo	Wool alcohol cream DAB/SR	13081303	1
Caelo	Wool alcohol cream DAB/SR	13261801	12
Caelo	Wool alcohol cream DAB/SR	12101304	1
Caelo	Wool alcohol cream DAB/SR	269213261801	1
Caelo	Wool alcohol cream DAB/SR	1327901	1
Caelo	Wool alcohol cream DAB/SR	13279101	5
Caelo	Wool alcohol cream DAB/SR	13172105	2
Caelo	Wool alcohol cream DAB/SR	13369601	12
Caelo	Wool alcohol cream DAB/SR	13289403	10
Caelo	Wool alcohol cream DAB/SR	13369401	5
Caelo	Wool alcohol cream DAB/SR	13280801	2
Caelo	Wool alcohol cream DAB/SR	1118962	1
Caelo	Wool alcohol cream DAB/SR	9011407	1
Caelo	Wool alcohol cream DAB/SR	13394103	1
Caelo	Wool alcohol cream DAB/SR	13369601	1
Caelo	Wool alcohol cream DAB/SR	14362201	7
Caelo	Wool alcohol cream DAB/SR	13394102	21
Caelo	Wool alcohol cream DAB/SR	14033202	7
Caelo	Wool alcohol cream DAB/SR	13394201	9
Caelo	Wool alcohol cream DAB/SR	13172102	1
Caelo	Wool alcohol cream DAB/SR	9041402	1
Caelo	Wool alcohol cream DAB/SR	14092601	10

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	14092502	9
Caelo	Wool alcohol cream DAB/SR	14045801	13
Caelo	Wool alcohol cream DAB/SR	14046201	8
Caelo	Wool alcohol cream DAB/SR	284638	1
Caelo	Wool alcohol cream DAB/SR	1373801	1
Caelo	Wool alcohol cream DAB/SR	14092501	7
Caelo	Wool alcohol cream DAB/SR	14166901	4
Caelo	Wool alcohol cream DAB/SR	14164201	14
Caelo	Wool alcohol cream DAB/SR	14046381	1
Caelo	Wool alcohol cream DAB/SR	14162503	4
Caelo	Wool alcohol cream DAB/SR	14162502	7
Caelo	Wool alcohol cream DAB/SR	14164201	5
Caelo	Wool alcohol cream DAB/SR	14246501	3
Caelo	Wool alcohol cream DAB/SR	14169101	4
Caelo	Wool alcohol cream DAB/SR	14126801	3
Caelo	Wool alcohol cream DAB/SR	14170801	2
Caelo	Wool alcohol cream DAB/SR	14216601	4
Caelo	Wool alcohol cream DAB/SR	14092501	9
Caelo	Wool alcohol cream DAB/SR	14246401	6
Caelo	Wool alcohol cream DAB/SR	14169101	10
Caelo	Wool alcohol cream DAB/SR	13369401	1
Caelo	Wool alcohol cream DAB/SR	289089	1
Caelo	Wool alcohol cream DAB/SR	23101405	1
Caelo	Wool alcohol cream DAB/SR	14246101	3
Caelo	Wool alcohol cream DAB/SR	14246301	5
Caelo	Wool alcohol cream DAB/SR	14216902	4
Caelo	Wool alcohol cream DAB/SR	14259402	1
Caelo	Wool alcohol cream DAB/SR	14259601	1
Caelo	Wool alcohol cream DAB/SR	14246201	2
Caelo	Wool alcohol cream DAB/SR	14259401	3
Caelo	Wool alcohol cream DAB/SR	14164201	1
Caelo	Wool alcohol cream DAB/SR	14246501	6
Caelo	Wool alcohol cream DAB/SR	14246101	2
Caelo	Wool alcohol cream DAB/SR	14259801	2
Caelo	Wool alcohol cream DAB/SR	14092601	1
Caelo	Wool alcohol cream DAB/SR	14216902	13
Caelo	Wool alcohol cream DAB/SR	1426401	1
Caelo	Wool alcohol cream DAB/SR	15011504	1
Caelo	Wool alcohol cream DAB/SR	14295402	1
Caelo	Wool alcohol cream DAB/SR	21105102	1
Caelo	Wool alcohol cream DAB/SR	14295901	4
Caelo	Wool alcohol cream DAB/SR	14296001	1
Caelo	Wool alcohol cream DAB/SR	14259801	4
Caelo	Wool alcohol cream DAB/SR	1424501	1
Caelo	Wool alcohol cream DAB/SR	14362301	5
Caelo	Wool alcohol cream DAB/SR	14295401	1
Caelo	Wool alcohol cream DAB/SR	14295401	4
Caelo	Wool alcohol cream DAB/SR	14295601	3
Caelo	Wool alcohol cream DAB/SR	14356303	1
Caelo	Wool alcohol cream DAB/SR	14295601	1
Caelo	Wool alcohol cream DAB/SR	15017501	1
Caelo	Wool alcohol cream DAB/SR	142960001	1
Caelo	Wool alcohol cream DAB/SR	13394101	1
Caelo	Wool alcohol cream DAB/SR	14356501	2
Caelo	Wool alcohol cream DAB/SR	15017601	21
Caelo	Wool alcohol cream DAB/SR	14170901	1
Caelo	Wool alcohol cream DAB/SR	1429501	1
Caelo	Wool alcohol cream DAB/SR	14356501	1
Caelo	Wool alcohol cream DAB/SR	1435601	1
Caelo	Wool alcohol cream DAB/SR	15017601	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	14296001	2
Caelo	Wool alcohol cream DAB/SR	1456302	1
Caelo	Wool alcohol cream DAB/SR	14295801	2
Caelo	Wool alcohol cream DAB/SR	15132101	10
Caelo	Wool alcohol cream DAB/SR	15073601	19
Caelo	Wool alcohol cream DAB/SR	15017601	2
Caelo	Wool alcohol cream DAB/SR	15149801	13
Caelo	Wool alcohol cream DAB/SR	1071503	1
Caelo	Wool alcohol cream DAB/SR	14259701	1
Caelo	Wool alcohol cream DAB/SR	15017901	1
Caelo	Wool alcohol cream DAB/SR	15174201	8
Caelo	Wool alcohol cream DAB/SR	1515101	1
Caelo	Wool alcohol cream DAB/SR	15073801	5
Caelo	Wool alcohol cream DAB/SR	15149802	1
Caelo	Wool alcohol cream DAB/SR	15149802	1
Caelo	Wool alcohol cream DAB/SR	15226301	1
Caelo	Wool alcohol cream DAB/SR	15266001	6
Caelo	Wool alcohol cream DAB/SR	15174302	8
Caelo	Wool alcohol cream DAB/SR	15266201	14
Caelo	Wool alcohol cream DAB/SR	15259701	2
Caelo	Wool alcohol cream DAB/SR	15174105	1
Caelo	Wool alcohol cream DAB/SR	15150101	2
Caelo	Wool alcohol cream DAB/SR	15260102	1
Caelo	Wool alcohol cream DAB/SR	alt:0415I-01371	1
Caelo	Wool alcohol cream DAB/SR	15259901	2
Caelo	Wool alcohol cream DAB/SR	15266101	1
Caelo	Wool alcohol cream DAB/SR	15259801	5
Caelo	Wool alcohol cream DAB/SR	15259801	1
Caelo	Wool alcohol cream DAB/SR	15360901	16
Caelo	Wool alcohol cream DAB/SR	15361001	5
Caelo	Wool alcohol cream DAB/SR	15268501	9
Caelo	Wool alcohol cream DAB/SR	15360901	1
Caelo	Wool alcohol cream DAB/SR	15361101	5
Caelo	Wool alcohol cream DAB/SR	15268302	38
Caelo	Wool alcohol cream DAB/SR	15268601	16
Caelo	Wool alcohol cream DAB/SR	2767	1
Caelo	Wool alcohol cream DAB/SR	16008103	1
Caelo	Wool alcohol cream DAB/SR	15361501	18
Caelo	Wool alcohol cream DAB/SR	16024501	11
Caelo	Wool alcohol cream DAB/SR	16008103	3
Caelo	Wool alcohol cream DAB/SR	16008001	4
Caelo	Wool alcohol cream DAB/SR	15361301	1
Caelo	Wool alcohol cream DAB/SR	16007802	4
Caelo	Wool alcohol cream DAB/SR	160245	1
Caelo	Wool alcohol cream DAB/SR	16024601	11
Caelo	Wool alcohol cream DAB/SR	15361201	1
Caelo	Wool alcohol cream DAB/SR	16008201	1
Caelo	Wool alcohol cream DAB/SR	16024403	13
Caelo	Wool alcohol cream DAB/SR	16024502	1
Caelo	Wool alcohol cream DAB/SR	152683021	1
Caelo	Wool alcohol cream DAB/SR	16090501	2
Caelo	Wool alcohol cream DAB/SR	80616-10	1
Caelo	Wool alcohol cream DAB/SR	16089902	9
Caelo	Wool alcohol cream DAB/SR	2808	1
Caelo	Wool alcohol cream DAB/SR	16090401	13
Caelo	Wool alcohol cream DAB/SR	16157901	27
Caelo	Wool alcohol cream DAB/SR	16008401	6
Caelo	Wool alcohol cream DAB/SR	16090601	1
Caelo	Wool alcohol cream DAB/SR	16024401	9
Caelo	Wool alcohol cream DAB/SR	16090101	10

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	16177701	13
Caelo	Wool alcohol cream DAB/SR	201310	1
Caelo	Wool alcohol cream DAB/SR	16157901	1
Caelo	Wool alcohol cream DAB/SR	1608992	1
Caelo	Wool alcohol cream DAB/SR	16158102	4
Caelo	Wool alcohol cream DAB/SR	16340902	5
Caelo	Wool alcohol cream DAB/SR	16090001	1
Caelo	Wool alcohol cream DAB/SR	1609041	1
Caelo	Wool alcohol cream DAB/SR	161177701	1
Caelo	Wool alcohol cream DAB/SR	1600841	1
Caelo	Wool alcohol cream DAB/SR	16157802	7
Caelo	Wool alcohol cream DAB/SR	303530	2
Caelo	Wool alcohol cream DAB/SR	16177401	17
Caelo	Wool alcohol cream DAB/SR	16157801	13
Caelo	Wool alcohol cream DAB/SR	16112201	11
Caelo	Wool alcohol cream DAB/SR	160912ECA	1
Caelo	Wool alcohol cream DAB/SR	16158001	1
Caelo	Wool alcohol cream DAB/SR	16157501	1
Caelo	Wool alcohol cream DAB/SR	16007701	1
Caelo	Wool alcohol cream DAB/SR	16199101	13
Caelo	Wool alcohol cream DAB/SR	16282301	39
Caelo	Wool alcohol cream DAB/SR	16199301	9
Caelo	Wool alcohol cream DAB/SR	116282301	1
Caelo	Wool alcohol cream DAB/SR	16090601	1
Caelo	Wool alcohol cream DAB/SR	2890	1
Caelo	Wool alcohol cream DAB/SR	161776	1
Caelo	Wool alcohol cream DAB/SR	16278201	8
Caelo	Wool alcohol cream DAB/SR	16198401	1
Caelo	Wool alcohol cream DAB/SR	16312901	1
Caelo	Wool alcohol cream DAB/SR	16249003	3
Caelo	Wool alcohol cream DAB/SR	16340701	7
Caelo	Wool alcohol cream DAB/SR	16312902	14
Caelo	Wool alcohol cream DAB/SR	16198901	4
Caelo	Wool alcohol cream DAB/SR	16344301	23
Caelo	Wool alcohol cream DAB/SR	16341001	21
Caelo	Wool alcohol cream DAB/SR	16282301	1
Caelo	Wool alcohol cream DAB/SR	1634080101098277	1
Caelo	Wool alcohol cream DAB/SR	1709202	1
Caelo	Wool alcohol cream DAB/SR	306819	2
Caelo	Wool alcohol cream DAB/SR	17039201	20
Caelo	Wool alcohol cream DAB/SR	17039601	10
Caelo	Wool alcohol cream DAB/SR	16344101	20
Caelo	Wool alcohol cream DAB/SR	170390301	1
Caelo	Wool alcohol cream DAB/SR	17039202	6
Caelo	Wool alcohol cream DAB/SR	16177801	1
Caelo	Wool alcohol cream DAB/SR	17040001	16
Caelo	Wool alcohol cream DAB/SR	1703991	1
Caelo	Wool alcohol cream DAB/SR	170394015292	1
Caelo	Wool alcohol cream DAB/SR	17039501	2
Caelo	Wool alcohol cream DAB/SR	17104702	6
Caelo	Wool alcohol cream DAB/SR	17102602	7
Caelo	Wool alcohol cream DAB/SR	5081702	1
Caelo	Wool alcohol cream DAB/SR	163441	1
Caelo	Wool alcohol cream DAB/SR	171202701	1
Caelo	Wool alcohol cream DAB/SR	17102901	11
Caelo	Wool alcohol cream DAB/SR	17148701	21
Caelo	Wool alcohol cream DAB/SR	17104703	5
Caelo	Wool alcohol cream DAB/SR	17155901	31
Caelo	Wool alcohol cream DAB/SR	Chargeergänzen!!	1
Caelo	Wool alcohol cream DAB/SR	17128502	10

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	17094001	19
Caelo	Wool alcohol cream DAB/SR	17102801	5
Caelo	Wool alcohol cream DAB/SR	17178301	26
Caelo	Wool alcohol cream DAB/SR	171559015364	1
Caelo	Wool alcohol cream DAB/SR	310583	2
Caelo	Wool alcohol cream DAB/SR	17197303	4
Caelo	Wool alcohol cream DAB/SR	17149101	7
Caelo	Wool alcohol cream DAB/SR	17228702	5
Caelo	Wool alcohol cream DAB/SR	17187601	15
Caelo	Wool alcohol cream DAB/SR	171973202	1
Caelo	Wool alcohol cream DAB/SR	308305	1
Caelo	Wool alcohol cream DAB/SR	17187902	6
Caelo	Wool alcohol cream DAB/SR	17179301	1
Caelo	Wool alcohol cream DAB/SR	17187901	1
Caelo	Wool alcohol cream DAB/SR	17016001	1
Caelo	Wool alcohol cream DAB/SR	17284701	12
Caelo	Wool alcohol cream DAB/SR	17284802	7
Caelo	Wool alcohol cream DAB/SR	18012201	43
Caelo	Wool alcohol cream DAB/SR	171877015454	1
Caelo	Wool alcohol cream DAB/SR	17848022x	1
Caelo	Wool alcohol cream DAB/SR	18012303	10
Caelo	Wool alcohol cream DAB/SR	17264801	1
Caelo	Wool alcohol cream DAB/SR	18012401	19
Caelo	Wool alcohol cream DAB/SR	17284401	2
Caelo	Wool alcohol cream DAB/SR	17352401	2
Caelo	Wool alcohol cream DAB/SR	1724802	1
Caelo	Wool alcohol cream DAB/SR	1728402	1
Caelo	Wool alcohol cream DAB/SR	17264301	1
Caelo	Wool alcohol cream DAB/SR	18069601	29
Caelo	Wool alcohol cream DAB/SR	3051810	1
Caelo	Wool alcohol cream DAB/SR	181541	9
Caelo	Wool alcohol cream DAB/SR	18012701	17
Caelo	Wool alcohol cream DAB/SR	17149001	1
Caelo	Wool alcohol cream DAB/SR	18098201	19
Caelo	Wool alcohol cream DAB/SR	18086902	4
Caelo	Wool alcohol cream DAB/SR	18104101	23
Caelo	Wool alcohol cream DAB/SR	1806502	1
Caelo	Wool alcohol cream DAB/SR	18189602	4
Caelo	Wool alcohol cream DAB/SR	18104302	1
Caelo	Wool alcohol cream DAB/SR	18104001	1
Caelo	Wool alcohol cream DAB/SR	18192303	17
Caelo	Wool alcohol cream DAB/SR	18262404	10
Caelo	Wool alcohol cream DAB/SR	18241201	1
Caelo	Wool alcohol cream DAB/SR	18262601	22
Caelo	Wool alcohol cream DAB/SR	18262301	52
Caelo	Wool alcohol cream DAB/SR	18262403	20
Caelo	Wool alcohol cream DAB/SR	18006042	1
Caelo	Wool alcohol cream DAB/SR	18311102	23
Caelo	Wool alcohol cream DAB/SR	18331901	12
Caelo	Wool alcohol cream DAB/SR	18262801	20
Caelo	Wool alcohol cream DAB/SR	19011001	3
Caelo	Wool alcohol cream DAB/SR	19058004	20
Caelo	Wool alcohol cream DAB/SR	19040701	22
Caelo	Wool alcohol cream DAB/SR	19058001	1
Caelo	Wool alcohol cream DAB/SR	19115501	6
Caelo	Wool alcohol cream DAB/SR	190408001	1
Caelo	Wool alcohol cream DAB/SR	19115701	3
Caelo	Wool alcohol cream DAB/SR	90408011	1
Caelo	Wool alcohol cream DAB/SR	491780011	1
Caelo	Wool alcohol cream DAB/SR	19178101	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	19226101	1
Caelo	Wool alcohol cream DAB/SR	19226202	2
Caelo	Wool alcohol cream DAB/SR	19000767001	4
Caelo	Wool alcohol cream DAB/SR	19000768001	3
Caelo	Wool alcohol cream DAB/SR	19267401	1
Caelo	Wool alcohol cream DAB/SR	20001069001	2
Caelo	Wool alcohol cream DAB/SR	20001467001	2
Caelo	Wool alcohol cream DAB/SR	20001066001	3
Caelo	Wool alcohol cream DAB/SR	20001086002	1
Caelo	Wool alcohol cream DAB/SR	20001086001	1
Caelo	Wool alcohol cream DAB/SR	20001084001	1
Caelo	Wool alcohol cream DAB/SR	20001461001	1
Caelo	Wool alcohol cream DAB/SR	12001201	1
Caelo	Wool alcohol cream DAB/SR	17227401	29
Caelo	Wool alcohol cream DAB/SR	19177801	3
Caelo	Wool alcohol cream DAB/SR	CH-B:18104302	1
Caelo	Wool alcohol cream DAB/SR	11356301	1
Caelo	Wool alcohol cream DAB/SR	120307010	1
Caelo	Wool alcohol cream DAB/SR	13369801	6
Caelo	Wool alcohol cream DAB/SR	15260001	17
Caelo	Wool alcohol cream DAB/SR	298675	2
Caelo	Wool alcohol cream DAB/SR	15361301	9
Caelo	Wool alcohol cream DAB/SR	15150002	3
Caelo	Wool alcohol cream DAB/SR	13145601	15
Caelo	Wool alcohol cream DAB/SR	19115601	3
Caelo	Wool alcohol cream DAB/SR	13289301	12
Caelo	Wool alcohol cream DAB/SR	14113201	1
Caelo	Wool alcohol cream DAB/SR	16007702	4
Caelo	Wool alcohol cream DAB/SR	16090301	12
Caelo	Wool alcohol cream DAB/SR	16090002	3
Caelo	Wool alcohol cream DAB/SR	4718E-01371	1
Caelo	Wool alcohol cream DAB/SR	14046002	1
Caelo	Wool alcohol cream DAB/SR	17284501	1
Caelo	Wool alcohol cream DAB/SR	12307901	3
Caelo	Wool alcohol cream DAB/SR	14126801	14
Caelo	Wool alcohol cream DAB/SR	14167101	2
Caelo	Wool alcohol cream DAB/SR	14259701	1
Caelo	Wool alcohol cream DAB/SR	1416903	1
Caelo	Wool alcohol cream DAB/SR	14362401	5
Caelo	Wool alcohol cream DAB/SR	15259802	2
Caelo	Wool alcohol cream DAB/SR	16340801	48
Caelo	Wool alcohol cream DAB/SR	1940601	1
Caelo	Wool alcohol cream DAB/SR	15360802	7
Caelo	Wool alcohol cream DAB/SR	16340703	5
Caelo	Wool alcohol cream DAB/SR	18104002	16
Caelo	Wool alcohol cream DAB/SR	20001067001	4
Caelo	Wool alcohol cream DAB/SR	20001466001	1
Caelo	Wool alcohol cream DAB/SR	19005762	1
Caelo	Wool alcohol cream DAB/SR	15150001	8
Caelo	Wool alcohol cream DAB/SR	163123101	1
Caelo	Wool alcohol cream DAB/SR	20170419ECA/16312902	1
Caelo	Wool alcohol cream DAB/SR	17039701	10
Caelo	Wool alcohol cream DAB/SR	19118801	5
Caelo	Wool alcohol cream DAB/SR	14045901	4
Caelo	Wool alcohol cream DAB/SR	14259501	1
Caelo	Wool alcohol cream DAB/SR	15174103	12
Caelo	Wool alcohol cream DAB/SR	16014302	6
Caelo	Wool alcohol cream DAB/SR	18170303	24
Caelo	Wool alcohol cream DAB/SR	275988	1
Caelo	Wool alcohol cream DAB/SR	296128	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	19259503	2
Caelo	Wool alcohol cream DAB/SR	12056402	1
Caelo	Wool alcohol cream DAB/SR	13280601	1
Caelo	Wool alcohol cream DAB/SR	14295701	4
Caelo	Wool alcohol cream DAB/SR	15268402	5
Caelo	Wool alcohol cream DAB/SR	29/AKD12	1
Caelo	Wool alcohol cream DAB/SR	16278301	6
Caelo	Wool alcohol cream DAB/SR	17149201	20
Caelo	Wool alcohol cream DAB/SR	17197302	75
Caelo	Wool alcohol cream DAB/SR	18069603	3
Caelo	Wool alcohol cream DAB/SR	15174105	2
Caelo	Wool alcohol cream DAB/SR	14164001	2
Caelo	Wool alcohol cream DAB/SR	13190203	1
Caelo	Wool alcohol cream DAB/SR	18086901	1
Caelo	Wool alcohol cream DAB/SR	273635	1
Caelo	Wool alcohol cream DAB/SR	274635	1
Caelo	Wool alcohol cream DAB/SR	14216601	2
Caelo	Wool alcohol cream DAB/SR	12106102	2
Caelo	Wool alcohol cream DAB/SR	12351801	1
Caelo	Wool alcohol cream DAB/SR	17094102	7
Caelo	Wool alcohol cream DAB/SR	1900076701	1
Caelo	Wool alcohol cream DAB/SR	13068601	1
Caelo	Wool alcohol cream DAB/SR	1118956	1
Caelo	Wool alcohol cream DAB/SR	12259702	3
Caelo	Wool alcohol cream DAB/SR	12307301	1
Caelo	Wool alcohol cream DAB/SR	13061701	3
Caelo	Wool alcohol cream DAB/SR	13062301	6
Caelo	Wool alcohol cream DAB/SR	13145301	7
Caelo	Wool alcohol cream DAB/SR	1526601	2
Caelo	Wool alcohol cream DAB/SR	15266501	10
Caelo	Wool alcohol cream DAB/SR	12307701	6
Caelo	Wool alcohol cream DAB/SR	13369701	6
Caelo	Wool alcohol cream DAB/SR	14167101	3
Caelo	Wool alcohol cream DAB/SR	14295502	8
Caelo	Wool alcohol cream DAB/SR	19226301	3
Caelo	Wool alcohol cream DAB/SR	19259601	1
Caelo	Wool alcohol cream DAB/SR	12260101	4
Caelo	Wool alcohol cream DAB/SR	12307501	4
Caelo	Wool alcohol cream DAB/SR	15132101	1
Caelo	Wool alcohol cream DAB/SR	15132301	1
Caelo	Wool alcohol cream DAB/SR	15149902	1
Caelo	Wool alcohol cream DAB/SR	18023403	18
Caelo	Wool alcohol cream DAB/SR	13061901	7
Caelo	Wool alcohol cream DAB/SR	14295801	3
Caelo	Wool alcohol cream DAB/SR	14046401	8
Caelo	Wool alcohol cream DAB/SR	21(19115401)	1
Caelo	Wool alcohol cream DAB/SR	13279201	3
Caelo	Wool alcohol cream DAB/SR	14092401	2
Caelo	Wool alcohol cream DAB/SR	15268303	2
Caelo	Wool alcohol cream DAB/SR	15268401	3
Caelo	Wool alcohol cream DAB/SR	14046101	1
Caelo	Wool alcohol cream DAB/SR	15150101	7
Caelo	Wool alcohol cream DAB/SR	12260401	1
Caelo	Wool alcohol cream DAB/SR	13373701	9
Caelo	Wool alcohol cream DAB/SR	13066501	1
Caelo	Wool alcohol cream DAB/SR	13068501	1
Caelo	Wool alcohol cream DAB/SR	14216901	1
Caelo	Wool alcohol cream DAB/SR	13394103	1
Caelo	Wool alcohol cream DAB/SR	16177601	17
Caelo	Wool alcohol cream DAB/SR	13373601	6

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	14167001	4
Caelo	Wool alcohol cream DAB/SR	14259601	5
Caelo	Wool alcohol cream DAB/SR	13145201	3
Caelo	Wool alcohol cream DAB/SR	16120801	2
Caelo	Wool alcohol cream DAB/SR	16345801	5
Caelo	Wool alcohol cream DAB/SR	17149002	9
Caelo	Wool alcohol cream DAB/SR	171128ECA/17149002	1
Caelo	Wool alcohol cream DAB/SR	13172104	1
Caelo	Wool alcohol cream DAB/SR	14356402	6
Caelo	Wool alcohol cream DAB/SR	17178402	3
Caelo	Wool alcohol cream DAB/SR	1211901	1
Caelo	Wool alcohol cream DAB/SR	1703401	1
Caelo	Wool alcohol cream DAB/SR	18023401	2
Caelo	Wool alcohol cream DAB/SR	3284	1
Caelo	Wool alcohol cream DAB/SR	18311101	1
Caelo	Wool alcohol cream DAB/SR	16353902	2
Caelo	Wool alcohol cream DAB/SR	16344102	13
Caelo	Wool alcohol cream DAB/SR	PE113	1
Caelo	Wool alcohol cream DAB/SR	14107602	1
Caelo	Wool alcohol cream DAB/SR	417A-01371	1
Caelo	Wool alcohol cream DAB/SR	19199004	1
Caelo	Wool alcohol cream DAB/SR	18104301	1
Caelo	Wool alcohol cream DAB/SR	14169101	1
Caelo	Wool alcohol cream DAB/SR	14295502	2
Caelo	Wool alcohol cream DAB/SR	1718A-01371	1
Caelo	Wool alcohol cream DAB/SR	1098277	1
Caelo	Wool alcohol cream DAB/SR	13029504	3
Caelo	Wool alcohol cream DAB/SR	1314570	1
Caelo	Wool alcohol cream DAB/SR	13261701	13
Caelo	Wool alcohol cream DAB/SR	13322801	22
Caelo	Wool alcohol cream DAB/SR	13369402	3
Caelo	Wool alcohol cream DAB/SR	13373903	3
Caelo	Wool alcohol cream DAB/SR	306086	3
Caelo	Wool alcohol cream DAB/SR	17094201	26
Caelo	Wool alcohol cream DAB/SR	1718701	1
Caelo	Wool alcohol cream DAB/SR	17197301/5580	1
Caelo	Wool alcohol cream DAB/SR	18086301	10
Caelo	Wool alcohol cream DAB/SR	18086401	37
Caelo	Wool alcohol cream DAB/SR	18170501	41
Caelo	Wool alcohol cream DAB/SR	19212101	2
Caelo	Wool alcohol cream DAB/SR	18192302	37
Caelo	Wool alcohol cream DAB/SR	19068902	1
Caelo	Wool alcohol cream DAB/SR	14164101	3
Caelo	Wool alcohol cream DAB/SR	1339401	1
Caelo	Wool alcohol cream DAB/SR	14045602	1
Caelo	Wool alcohol cream DAB/SR	13373501	3
Caelo	Wool alcohol cream DAB/SR	14169201	2
Caelo	Wool alcohol cream DAB/SR	14259402	1
Caelo	Wool alcohol cream DAB/SR	14356302	22
Caelo	Wool alcohol cream DAB/SR	14356601	6
Caelo	Wool alcohol cream DAB/SR	15260102	26
Caelo	Wool alcohol cream DAB/SR	15360902	5
Caelo	Wool alcohol cream DAB/SR	2716Q-01371	1
Caelo	Wool alcohol cream DAB/SR	4917I-01371	1
Caelo	Wool alcohol cream DAB/SR	18002414	8
Caelo	Wool alcohol cream DAB/SR	18005983	6
Caelo	Wool alcohol cream DAB/SR	1814002	1
Caelo	Wool alcohol cream DAB/SR	18241202	9
Caelo	Wool alcohol cream DAB/SR	19118803	2
Caelo	Wool alcohol cream DAB/SR	11356601	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	18241603	14
Caelo	Wool alcohol cream DAB/SR	18262701	17
Caelo	Wool alcohol cream DAB/SR	19057902	4
Caelo	Wool alcohol cream DAB/SR	19118901	13
Caelo	Wool alcohol cream DAB/SR	13061402	3
Caelo	Wool alcohol cream DAB/SR	14246201	2
Caelo	Wool alcohol cream DAB/SR	9115701	1
Caelo	Wool alcohol cream DAB/SR	13369501	2
Caelo	Wool alcohol cream DAB/SR	15361201	12
Caelo	Wool alcohol cream DAB/SR	12209001	1
Caelo	Wool alcohol cream DAB/SR	11226201	1
Caelo	Wool alcohol cream DAB/SR	13062101	17
Caelo	Wool alcohol cream DAB/SR	13029502	2
Caelo	Wool alcohol cream DAB/SR	13061801	3
Caelo	Wool alcohol cream DAB/SR	13145201	3
Caelo	Wool alcohol cream DAB/SR	13171901	7
Caelo	Wool alcohol cream DAB/SR	13394101	9
Caelo	Wool alcohol cream DAB/SR	13373801	9
Caelo	Wool alcohol cream DAB/SR	14113201	6
Caelo	Wool alcohol cream DAB/SR	37A090414	1
Caelo	Wool alcohol cream DAB/SR	14246501	4
Caelo	Wool alcohol cream DAB/SR	14163901	1
Caelo	Wool alcohol cream DAB/SR	14295901	2
Caelo	Wool alcohol cream DAB/SR	14362301	2
Caelo	Wool alcohol cream DAB/SR	14356301	8
Caelo	Wool alcohol cream DAB/SR	14216601	1
Caelo	Wool alcohol cream DAB/SR	14356402	2
Caelo	Wool alcohol cream DAB/SR	15022201	5
Caelo	Wool alcohol cream DAB/SR	14356401	2
Caelo	Wool alcohol cream DAB/SR	15132301	1
Caelo	Wool alcohol cream DAB/SR	15073701	6
Caelo	Wool alcohol cream DAB/SR	15259901	9
Caelo	Wool alcohol cream DAB/SR	16312901	9
Caelo	Wool alcohol cream DAB/SR	1640801	1
Caelo	Wool alcohol cream DAB/SR	19A070817	2
Caelo	Wool alcohol cream DAB/SR	17198302	2
Caelo	Wool alcohol cream DAB/SR	17188001	18
Caelo	Wool alcohol cream DAB/SR	17156601	1
Caelo	Wool alcohol cream DAB/SR	1728701	1
Caelo	Wool alcohol cream DAB/SR	173524002	1
Caelo	Wool alcohol cream DAB/SR	18104302	56
Caelo	Wool alcohol cream DAB/SR	18241402	7
Caelo	Wool alcohol cream DAB/SR	1824202	1
Caelo	Wool alcohol cream DAB/SR	1826301	1
Caelo	Wool alcohol cream DAB/SR	19212101	5
Caelo	Wool alcohol cream DAB/SR	12260002	7
Caelo	Wool alcohol cream DAB/SR	12307201	8
Caelo	Wool alcohol cream DAB/SR	614E1371	1
Caelo	Wool alcohol cream DAB/SR	18001379	2
Caelo	Wool alcohol cream DAB/SR	13279001	5
Caelo	Wool alcohol cream DAB/SR	17284301	51
Caelo	Wool alcohol cream DAB/SR	17197301	23
Caelo	Wool alcohol cream DAB/SR	1787701	1
Caelo	Wool alcohol cream DAB/SR	12208902	7
Caelo	Wool alcohol cream DAB/SR	20(17156102)	1
Caelo	Wool alcohol cream DAB/SR	19212201	2
Caelo	Wool alcohol cream DAB/SR	14046501	1
Caelo	Wool alcohol cream DAB/SR	19000612003	1
Caelo	Wool alcohol cream DAB/SR	19000023	2
Caelo	Wool alcohol cream DAB/SR	19058002	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	18094502	2
Caelo	Wool alcohol cream DAB/SR	18104201	14
Caelo	Wool alcohol cream DAB/SR	19267302	2
Caelo	Wool alcohol cream DAB/SR	19177701	1
Caelo	Wool alcohol cream DAB/SR	1912101	1
Caelo	Wool alcohol cream DAB/SR	1336901	1
Caelo	Wool alcohol cream DAB/SR	13013201	1
Caelo	Wool alcohol cream DAB/SR	288265	1
Caelo	Wool alcohol cream DAB/SR	14216901	1
Caelo	Wool alcohol cream DAB/SR	14296001	13
Caelo	Wool alcohol cream DAB/SR	14092401	1
Caelo	Wool alcohol cream DAB/SR	15073502	4
Caelo	Wool alcohol cream DAB/SR	15132301	4
Caelo	Wool alcohol cream DAB/SR	15226301	12
Caelo	Wool alcohol cream DAB/SR	15259701	29
Caelo	Wool alcohol cream DAB/SR		4
Caelo	Wool alcohol cream DAB/SR	16007901	30
Caelo	Wool alcohol cream DAB/SR	16024301	2
Caelo	Wool alcohol cream DAB/SR	16120802	3
Caelo	Wool alcohol cream DAB/SR	17039401	40
Caelo	Wool alcohol cream DAB/SR	17102701	52
Caelo	Wool alcohol cream DAB/SR	17187801	69
Caelo	Wool alcohol cream DAB/SR	18012302	22
Caelo	Wool alcohol cream DAB/SR	17228703	5
Caelo	Wool alcohol cream DAB/SR	18096001	1
Caelo	Wool alcohol cream DAB/SR	18098301	52
Caelo	Wool alcohol cream DAB/SR	18147502	1
Caelo	Wool alcohol cream DAB/SR	18258202	3
Caelo	Wool alcohol cream DAB/SR	1804301	1
Caelo	Wool alcohol cream DAB/SR	18241401	2
Caelo	Wool alcohol cream DAB/SR	18331903	7
Caelo	Wool alcohol cream DAB/SR	1826701	1
Caelo	Wool alcohol cream DAB/SR	1904061	1
Caelo	Wool alcohol cream DAB/SR	191115402	1
Caelo	Wool alcohol cream DAB/SR	19040601	34
Caelo	Wool alcohol cream DAB/SR	9040701	1
Caelo	Wool alcohol cream DAB/SR	15360801	7
Caelo	Wool alcohol cream DAB/SR	12056202	1
Caelo	Wool alcohol cream DAB/SR	13279401	3
Caelo	Wool alcohol cream DAB/SR	14045702	5
Caelo	Wool alcohol cream DAB/SR	14170801	3
Caelo	Wool alcohol cream DAB/SR	14362201	1
Caelo	Wool alcohol cream DAB/SR	15073301	1
Caelo	Wool alcohol cream DAB/SR	15150001	2
Caelo	Wool alcohol cream DAB/SR	14017601	1
Caelo	Wool alcohol cream DAB/SR	16014303	1
Caelo	Wool alcohol cream DAB/SR	16177401	1
Caelo	Wool alcohol cream DAB/SR	16158101	1
Caelo	Wool alcohol cream DAB/SR	16345802	5
Caelo	Wool alcohol cream DAB/SR	17039801	13
Caelo	Wool alcohol cream DAB/SR	17039301	1
Caelo	Wool alcohol cream DAB/SR	17352402	3
Caelo	Wool alcohol cream DAB/SR	17352403	4
Caelo	Wool alcohol cream DAB/SR	18098101	17
Caelo	Wool alcohol cream DAB/SR	18086903	6
Caelo	Wool alcohol cream DAB/SR	18189603	5
Caelo	Wool alcohol cream DAB/SR	18258203	8
Caelo	Wool alcohol cream DAB/SR	18241601	3
Caelo	Wool alcohol cream DAB/SR	18295604	4
Caelo	Wool alcohol cream DAB/SR	19068903	5

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	309640	6
Caelo	Wool alcohol cream DAB/SR	16177603	10
Caelo	Wool alcohol cream DAB/SR	15017901	8
Caelo	Wool alcohol cream DAB/SR	1015E-01371	1
Caelo	Wool alcohol cream DAB/SR	12205401	1
Caelo	Wool alcohol cream DAB/SR	12259901	3
Caelo	Wool alcohol cream DAB/SR	13013202	9
Caelo	Wool alcohol cream DAB/SR	13145401	4
Caelo	Wool alcohol cream DAB/SR	13190202	1
Caelo	Wool alcohol cream DAB/SR	13279601	2
Caelo	Wool alcohol cream DAB/SR	2x13279201	1
Caelo	Wool alcohol cream DAB/SR	13169401	1
Caelo	Wool alcohol cream DAB/SR	13280701	4
Caelo	Wool alcohol cream DAB/SR	13279701	2
Caelo	Wool alcohol cream DAB/SR	13190201	1
Caelo	Wool alcohol cream DAB/SR	14046001	1
Caelo	Wool alcohol cream DAB/SR	14169201	2
Caelo	Wool alcohol cream DAB/SR	14164101	1
Caelo	Wool alcohol cream DAB/SR	114163901	1
Caelo	Wool alcohol cream DAB/SR	14246102	1
Caelo	Wool alcohol cream DAB/SR	415A-01371	1
Caelo	Wool alcohol cream DAB/SR	14295301	2
Caelo	Wool alcohol cream DAB/SR	15022201	1
Caelo	Wool alcohol cream DAB/SR	15017502	11
Caelo	Wool alcohol cream DAB/SR	15017701	2
Caelo	Wool alcohol cream DAB/SR	15174301	5
Caelo	Wool alcohol cream DAB/SR	15361402	23
Caelo	Wool alcohol cream DAB/SR	15361601	8
Caelo	Wool alcohol cream DAB/SR	15361701	1
Caelo	Wool alcohol cream DAB/SR	15360901	1
Caelo	Wool alcohol cream DAB/SR	1608001	1
Caelo	Wool alcohol cream DAB/SR	16007801	1
Caelo	Wool alcohol cream DAB/SR	16024501	1
Caelo	Wool alcohol cream DAB/SR	16199004	25
Caelo	Wool alcohol cream DAB/SR	16199201	10
Caelo	Wool alcohol cream DAB/SR	16199401	9
Caelo	Wool alcohol cream DAB/SR	17039301	28
Caelo	Wool alcohol cream DAB/SR	17148901	12
Caelo	Wool alcohol cream DAB/SR	17187701	47
Caelo	Wool alcohol cream DAB/SR	17156101	2
Caelo	Wool alcohol cream DAB/SR	2417Q-01371	1
Caelo	Wool alcohol cream DAB/SR	18012301	17
Caelo	Wool alcohol cream DAB/SR	180235-01	1
Caelo	Wool alcohol cream DAB/SR	18003802	4
Caelo	Wool alcohol cream DAB/SR	18098001	25
Caelo	Wool alcohol cream DAB/SR	18144001	17
Caelo	Wool alcohol cream DAB/SR	171797302	1
Caelo	Wool alcohol cream DAB/SR	1719730	1
Caelo	Wool alcohol cream DAB/SR	18144003	23
Caelo	Wool alcohol cream DAB/SR	18094402	4
Caelo	Wool alcohol cream DAB/SR	18192401	27
Caelo	Wool alcohol cream DAB/SR	18241302	18
Caelo	Wool alcohol cream DAB/SR	19011002	12
Caelo	Wool alcohol cream DAB/SR	18104901	1
Caelo	Wool alcohol cream DAB/SR	18241301	1
Caelo	Wool alcohol cream DAB/SR	19058003	7
Caelo	Wool alcohol cream DAB/SR	1915301	1
Caelo	Wool alcohol cream DAB/SR	19040801	13
Caelo	Wool alcohol cream DAB/SR	19115301	31
Caelo	Wool alcohol cream DAB/SR	19177802	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wool alcohol cream DAB/SR	14259701	1
Caelo	Wool alcohol cream DAB/SR	14362501	11
Caelo	Wool alcohol cream DAB/SR	17284801	20
Caelo	Wool alcohol cream DAB/SR	14216701	1
Caelo	Wool alcohol cream DAB/SR	180696015657	2
Caelo	Wool alcohol cream DAB/SR	180983015714	1
Caelo	Wool alcohol cream DAB/SR	13279201-3433311180	1
Caelo	Wool alcohol cream DAB/SR	13281003	4
Caelo	Wool alcohol cream DAB/SR	14166901ok	1
Caelo	Wool alcohol cream DAB/SR	14162502	5
Caelo	Wool alcohol cream DAB/SR	14170901	3
Caelo	Wool alcohol cream DAB/SR	14166901	1
Caelo	Wool alcohol cream DAB/SR	1416901	1
Caelo	Wool alcohol cream DAB/SR	14216701	4
Caelo	Wool alcohol cream DAB/SR	14246301	3
Caelo	Wool alcohol cream DAB/SR	14259801	5
Caelo	Wool alcohol cream DAB/SR	14216701	1
Caelo	Wool alcohol cream DAB/SR	14295601	4
Caelo	Wool alcohol cream DAB/SR	14092501	2
Caelo	Wool alcohol cream DAB/SR	14295701	1
Caelo	Wool alcohol cream DAB/SR	1456601	1
Caelo	Wool alcohol cream DAB/SR	15017501	3
Caelo	Wool alcohol cream DAB/SR	15073502	1
Caelo	Wool alcohol cream DAB/SR	15174104	21
Caelo	Wool alcohol cream DAB/SR	1529701	1
Caelo	Wool alcohol cream DAB/SR	15268/601	1
Caelo	Wool alcohol cream DAB/SR	16007701	16
Caelo	Wool alcohol cream DAB/SR	16090702	25
Caelo	Wool alcohol cream DAB/SR	16090201	6
Caelo	Wool alcohol cream DAB/SR	165158001	1
Caelo	Wool alcohol cream DAB/SR	16177502	15
Caelo	Wool alcohol cream DAB/SR	16278101	4
Caelo	Wool alcohol cream DAB/SR	17102603	14
Caelo	Wool alcohol cream DAB/SR	17197903	2
Caelo	Wool alcohol cream DAB/SR	171560014	1
Caelo	Wool alcohol cream DAB/SR	17284402	6
Caelo	Wool alcohol cream DAB/SR	18069602	11
Caelo	Wool alcohol cream DAB/SR	18094301	61
Caelo	Wool alcohol cream DAB/SR	18083603	1
Caelo	Wool alcohol cream DAB/SR	18144101	16
Caelo	Wool alcohol cream DAB/SR	18241301	21
Caelo	Wool alcohol cream DAB/SR	19011005	20
Caelo	Wool alcohol cream DAB/SR	19040602	15
Caelo	Wool alcohol cream DAB/SR	13394101	1
Caelo	Wool alcohol cream DAB/SR	16344202	4
Caelo	Wool alcohol cream DAB/SR	5017A-07003	1
Caelo	Wool alcohol cream DAB/SR	1806303	1
Caelo	Wool alcohol cream DAB/SR	1904601	1
Caelo	Wool alcohol cream DAB/SR	29131-01371	1
Caelo	Wool alcohol cream DAB/SR	1113E-01371	1
Caelo	Wool alcohol cream DAB/SR	16177602	28
Caelo	Wool alcohol cream DAB/SR	15260102	1
Caesar & Lorenz GmbH	Wool alcohol cream DAB/SR	1631301	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	12209101	2
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	14295901	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	15017801	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	15073701	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	15266501	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	18262402	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	182331902	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	19115402	15
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	19118802	10
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	18298201	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	19115401	15
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	19147201	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	19178001	2
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	19177901	3
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	19212302	2
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	19258601	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	20001068001	1
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	20001065001	2
Caesar & Loretz GmbH	Wool alcohol cream DAB/SR	20001462001	1
Caesar & Loretz GmbH ...	Wool alcohol cream DAB/SR	16249002	1
Caesar & Loretz GmbH ...	Wool alcohol cream DAB/SR	17104701	2
Caesar & Loretz GmbH ...	Wool alcohol cream DAB/SR	13373701	1
Caesar & Loretz GmbH,...	Wool alcohol cream DAB/SR	11276102	5
Caesar & Loretz GmbH,...	Wool alcohol cream DAB/SR	12000201	2
Caesar & Loretz GmbH/...	Wool alcohol cream DAB/SR	18295602	3
Caesar & Loretz GmbH/...	Wool alcohol cream DAB/SR	19177601	3
Caesar&Loretz	Wool alcohol cream DAB/SR	17040101	2
Caesar&loretz,Phoenix	Wool alcohol cream DAB/SR	13068504	17
Caesar&Loretz/Caesar&...	Wool alcohol cream DAB/SR	15266301	6
Caeser und Loretz GmbH	Wool alcohol cream DAB/SR	19177701	14
Cealo	Wool alcohol cream DAB/SR	17148702	6
Celo	Wool alcohol cream DAB/SR	16008301	1
Defektur	Wool alcohol cream DAB/SR	3817I-01371	1
Devesa	Wool alcohol cream DAB/SR	12106601	1
Euro OTC	Wool alcohol cream DAB/SR	221014	1
Euro OTC	Wool alcohol cream DAB/SR	17284502	14
Euro OTC	Wool alcohol cream DAB/SR	43A041016	2
Euro OTC	Wool alcohol cream DAB/SR	17156002	9
Euro OTC	Wool alcohol cream DAB/SR	279873	1
Euro OTC	Wool alcohol cream DAB/SR	17284601	22
Fagron	Wool alcohol cream DAB/SR	16199003	2
Fagron	Wool alcohol cream DAB/SR	18012501	30
Fagron	Wool alcohol cream DAB/SR	18012601	25
Fagron	Wool alcohol cream DAB/SR	18002409	5
Fagron	Wool alcohol cream DAB/SR	311526	2
Fagron	Wool alcohol cream DAB/SR	12370202	3
Fagron	Wool alcohol cream DAB/SR	111114a	1
Fiebig	Wool alcohol cream DAB/SR	16008201	10
Fiebig	Wool alcohol cream DAB/SR	18094502	66
Caelo	Wool alcohol cream DAB/SR	163443/1	1
Gehe	Wool alcohol cream DAB/SR	267155	2
Gehe	Wool alcohol cream DAB/SR	270032	1
Gehe	Wool alcohol cream DAB/SR	270037	1
Gehe	Wool alcohol cream DAB/SR	80A010812	1
Gehe	Wool alcohol cream DAB/SR	269933	2
Gehe	Wool alcohol cream DAB/SR	272254	2
Gehe	Wool alcohol cream DAB/SR	272253	1
Gehe	Wool alcohol cream DAB/SR	95A161012	1
Gehe	Wool alcohol cream DAB/SR	274686	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Gehe	Wool alcohol cream DAB/SR	277207	1
Gehe	Wool alcohol cream DAB/SR	32A080413	1
Gehe	Wool alcohol cream DAB/SR	274684	1
Gehe	Wool alcohol cream DAB/SR	279876	3
Gehe	Wool alcohol cream DAB/SR	13279002	5
Gehe	Wool alcohol cream DAB/SR	72A270813	1
Gehe	Wool alcohol cream DAB/SR	282240	1
Gehe	Wool alcohol cream DAB/SR	282245	1
Gehe	Wool alcohol cream DAB/SR	280493	1
Gehe	Wool alcohol cream DAB/SR	47a040613	1
Gehe	Wool alcohol cream DAB/SR	15266101	7
Gehe	Wool alcohol cream DAB/SR	16008103	24
Gehe	Wool alcohol cream DAB/SR	16313101	42
Gehe	Wool alcohol cream DAB/SR	1719302	1
Gehe	Wool alcohol cream DAB/SR	18094302	2
Gehe	Wool alcohol cream DAB/SR	18086501	1
Gehe	Wool alcohol cream DAB/SR	182414101	1
GEHE	Wool alcohol cream DAB/SR	305253	6
GEHE	Wool alcohol cream DAB/SR	303523	3
GEHE	Wool alcohol cream DAB/SR	308308	2
GEHE	Wool alcohol cream DAB/SR	18170401	35
Caelo	Wool alcohol cream DAB/SR	14162502	1
Bombastus	Wool alcohol cream DAB/SR	289490	1
Gehe 21.08.14	Wool alcohol cream DAB/SR	287175	1
GEHE 24.02.2014	Wool alcohol cream DAB/SR	13373801	1
Bombastus	Wool alcohol cream DAB/SR	302968	1
Caelo	Wool alcohol cream DAB/SR	181439001	1
Caelo	Wool alcohol cream DAB/SR	14216801	5
Bombastus	Wool alcohol cream DAB/SR	288443	3
apomix	Wool alcohol cream DAB/SR	8A290114	1
apomix	Wool alcohol cream DAB/SR	19A270214	1
apomix	Wool alcohol cream DAB/SR	4A020217	3
apomix	Wool alcohol cream DAB/SR	2A100118	5
apomix	Wool alcohol cream DAB/SR	87A141014	1
apomix	Wool alcohol cream DAB/SR	62A090714	2
apomix	Wool alcohol cream DAB/SR	28A210313	2
apomix	Wool alcohol cream DAB/SR	82A260913	1
GEHE/B0mbastus/04.14	Wool alcohol cream DAB/SR	285870	3
Bombastus	Wool alcohol cream DAB/SR	288351	1
Bombastus	Wool alcohol cream DAB/SR	301310	3
Bombastus	Wool alcohol cream DAB/SR	304428	5
Bombastus	Wool alcohol cream DAB/SR	18006643	5
Bombastus	Wool alcohol cream DAB/SR	19001840	3
Bombastus	Wool alcohol cream DAB/SR	19003086	1
Caelo	Wool alcohol cream DAB/SR	12370601	9
Caelo	Wool alcohol cream DAB/SR	12370203	1
Caelo	Wool alcohol cream DAB/SR	14046101	2
Caelo	Wool alcohol cream DAB/SR	16157801/1041016	1
Caelo	Wool alcohol cream DAB/SR	1230317	1
Caelo	Wool alcohol cream DAB/SR	17039901	7
Caelo	Wool alcohol cream DAB/SR	1241017/17155901	1
Caelo	Wool alcohol cream DAB/SR	18170302	1
Caelo	Wool alcohol cream DAB/SR	18004062||091/19	1
Caelo	Wool alcohol cream DAB/SR	19000768002	1
GH: ...	Wool alcohol cream DAB/SR		1
Heidinger/ Noweda	Wool alcohol cream DAB/SR	1804401	1
ichthyol	Wool alcohol cream DAB/SR	297414	1
Ichthyol Gesellschaft...	Wool alcohol cream DAB/SR	14362501	1
Ichthyol-Gesellschaft	Wool alcohol cream DAB/SR	11288302	1
Caelo	Wool alcohol cream DAB/SR	19000501	15

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Kehr	Wool alcohol cream DAB/SR	18000771	1
Caelo	Wool alcohol cream DAB/SR	17094002	18
Caelo	Wool alcohol cream DAB/SR	170400001	1
Leyh	Wool alcohol cream DAB/SR	182851,183641	1
Leyh /Sanacorp	Wool alcohol cream DAB/SR	154421	1
Leyh /Sanacorp	Wool alcohol cream DAB/SR	162631	3
Leyh /Sanacorp	Wool alcohol cream DAB/SR	170231	1
leyh Pharma	Wool alcohol cream DAB/SR	172411	6
Leyh Pharma	Wool alcohol cream DAB/SR	170651	2
Leyh Pharma	Wool alcohol cream DAB/SR	164441	1
Leyh Pharma	Wool alcohol cream DAB/SR	171851	2
Leyh Pharma	Wool alcohol cream DAB/SR	172821	1
Leyh Pharma	Wool alcohol cream DAB/SR	173821	3
Leyh Pharma	Wool alcohol cream DAB/SR	180231	6
Leyh Pharma	Wool alcohol cream DAB/SR	181741	2
Leyh Pharma	Wool alcohol cream DAB/SR	190921	3
Leyh Pharma / Allianc...	Wool alcohol cream DAB/SR	181011	3
Leyh Pharma / Allianc...	Wool alcohol cream DAB/SR	182851	3
Leyh Pharma / Allianc...	Wool alcohol cream DAB/SR	182241	3
Leyh Pharma / Allianc...	Wool alcohol cream DAB/SR	183641	3
Leyh Pharma / Allianc...	Wool alcohol cream DAB/SR	8004134002	1
Leyh Pharma GmbH	Wool alcohol cream DAB/SR	151831	3
Leyh Pharma GmbH	Wool alcohol cream DAB/SR	163741	1
Leyh Pharma GmbH	Wool alcohol cream DAB/SR	171311	2
Leyh Pharma GmbH	Wool alcohol cream DAB/SR	194021	1
Leyh Pharma GmbH, 15....	Wool alcohol cream DAB/SR	162411	2
Leyh Pharma/Noweda	Wool alcohol cream DAB/SR	160551	2
Leyh Pharma/Noweda	Wool alcohol cream DAB/SR	161211	1
Leyh Pharma/Noweda	Wool alcohol cream DAB/SR	161531	1
Leyh Pharma/Noweda	Wool alcohol cream DAB/SR	192841	1
Leyh Pharma/Phoenix	Wool alcohol cream DAB/SR	191931	2
Leyh Pharma/Sanacorp	Wool alcohol cream DAB/SR	142031	1
Leyh Pharma/Sanacorp	Wool alcohol cream DAB/SR	144951	1
Leyh Pharma/Sanacorp	Wool alcohol cream DAB/SR	150411	1
Leyh/Noweda	Wool alcohol cream DAB/SR	152321	2
Leytt Pharma / Allian...	Wool alcohol cream DAB/SR	174511	4
Midas	Wool alcohol cream DAB/SR	16322301	1
Noweda	Wool alcohol cream DAB/SR	282241	1
Noweda	Wool alcohol cream DAB/SR	282244	1
Noweda	Wool alcohol cream DAB/SR	14295402	2
Noweda	Wool alcohol cream DAB/SR	291431	1
Noweda	Wool alcohol cream DAB/SR	291478	1
Noweda	Wool alcohol cream DAB/SR	294529	1
Noweda	Wool alcohol cream DAB/SR	295530	1
Noweda	Wool alcohol cream DAB/SR	294333	1
Noweda	Wool alcohol cream DAB/SR	295530	1
Noweda	Wool alcohol cream DAB/SR	298673	1
Noweda	Wool alcohol cream DAB/SR	17156001	32
Noweda	Wool alcohol cream DAB/SR	19000401	56
Caelo	Wool alcohol cream DAB/SR	13008202	1
Bombastus	Wool alcohol cream DAB/SR	271812	1
Bombastus	Wool alcohol cream DAB/SR	289620	1
apomix	Wool alcohol cream DAB/SR	5A290113	2

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Wool alcohol cream DAB/SR	286236	2
Caelo	Wool alcohol cream DAB/SR	12260402	13
Caelo	Wool alcohol cream DAB/SR	13272601	1
Caelo	Wool alcohol cream DAB/SR	14259401	2
Caelo	Wool alcohol cream DAB/SR	14259601	7
Caelo	Wool alcohol cream DAB/SR	14200702	2
Caelo	Wool alcohol cream DAB/SR	1429501	1
Caelo	Wool alcohol cream DAB/SR	15329403	1
Caelo	Wool alcohol cream DAB/SR	16090501	34
Caelo	Wool alcohol cream DAB/SR	16158001	34
Caelo	Wool alcohol cream DAB/SR	16158101	16
Caelo	Wool alcohol cream DAB/SR	18143091	1
Euro OTC	Wool alcohol cream DAB/SR	2507217035	1
Otto Fischar GmbH & C...	Wool alcohol cream DAB/SR	294533	10
P.W.Beyvers Gmbh,Phönix	Wool alcohol cream DAB/SR	15A230215	1
Pharmachem	Wool alcohol cream DAB/SR	190816	13
Pharmachem	Wool alcohol cream DAB/SR	190417	8
Pharmachem	Wool alcohol cream DAB/SR	291217	15
Pharmachem / Alliance...	Wool alcohol cream DAB/SR	290818	6
Pharmachem Anzag	Wool alcohol cream DAB/SR	260413	3
Pharmachem GmbH	Wool alcohol cream DAB/SR	110913	2
pharmachem gmbh co kg...	Wool alcohol cream DAB/SR	31215	8
Pharmachem/Noweda	Wool alcohol cream DAB/SR	260419	1
Pharmachem/Phoenix	Wool alcohol cream DAB/SR	184511	3
Pharmachem/Phönix	Wool alcohol cream DAB/SR	110614	1
Phoenix	Wool alcohol cream DAB/SR	14A180214	1
Phoenix	Wool alcohol cream DAB/SR	3025	1
Phoenix	Wool alcohol cream DAB/SR	3085	1
Phoenix (Pharmachem P...	Wool alcohol cream DAB/SR	260712	3
Phoenix Goettin	Wool alcohol cream DAB/SR	15017801	4
Caelo	Wool alcohol cream DAB/SR	14216903	2
Caelo	Wool alcohol cream DAB/SR	18012201/2110418	1
Caelo	Wool alcohol cream DAB/SR	13145901	5
Phönix	Wool alcohol cream DAB/SR	13279301	7
Phönix	Wool alcohol cream DAB/SR	14295502	1
Phönix	Wool alcohol cream DAB/SR	1098283	1
Phönix	Wool alcohol cream DAB/SR	307288	1
Phönix	Wool alcohol cream DAB/SR	17002145	5
Phönix	Wool alcohol cream DAB/SR	18023402	35
Phönix	Wool alcohol cream DAB/SR	3137	1
Phönix	Wool alcohol cream DAB/SR	3157	1
Phönix	Wool alcohol cream DAB/SR	6861192	1
Phönix	Wool alcohol cream DAB/SR	18086502	19
Phönix	Wool alcohol cream DAB/SR	18241602	45
Phönix	Wool alcohol cream DAB/SR	18004726	3
Phönix	Wool alcohol cream DAB/SR	18006844	6
Phönix	Wool alcohol cream DAB/SR	1900168	1
PHÖNIX	Wool alcohol cream DAB/SR	17178201	22
Bombastus	Wool alcohol cream DAB/SR	17002206	8
Bombastus	Wool alcohol cream DAB/SR	18002410	4
Bombastus	Wool alcohol cream DAB/SR	19000162	3
Phönix Gotha	Wool alcohol cream DAB/SR	12036403	2
Phönix Gotha	Wool alcohol cream DAB/SR	12352001	4
Phönix Gotha	Wool alcohol cream DAB/SR	311522	1
Phönix Gotha	Wool alcohol cream DAB/SR	18001371	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Phönix Gotha	Wool alcohol cream DAB/SR	18002407	1
Phönix Gotha	Wool alcohol cream DAB/SR	18006837	1
Phönix Gotha	Wool alcohol cream DAB/SR	19000158	2
Caelo	Wool alcohol cream DAB/SR	17148201	1
Bombastus	Wool alcohol cream DAB/SR	18004001	7
Bombastus	Wool alcohol cream DAB/SR	19000160	9
Caelo	Wool alcohol cream DAB/SR	13272601	3
Caelo	Wool alcohol cream DAB/SR	153671601	1
Caelo	Wool alcohol cream DAB/SR	16008301	12
Caelo	Wool alcohol cream DAB/SR	16277902	10
Caelo	Wool alcohol cream DAB/SR	16344201	43
Caelo	Wool alcohol cream DAB/SR	2120817/17039401	1
PKH GmbH, Ph 21.02.19	Wool alcohol cream DAB/SR	1A160119	7
PKH GmbH,Phönix	Wool alcohol cream DAB/SR	57A100615	1
PKH Halle	Wool alcohol cream DAB/SR	19A240718	7
PKH Halle/AHD	Wool alcohol cream DAB/SR	23A181017	2
PKH Halle/Noweda	Wool alcohol cream DAB/SR	21A290817	6
Raben-Apotheke Mildenau	Wool alcohol cream DAB/SR	38A150514	1
Raben-Apotheke Mildenau	Wool alcohol cream DAB/SR	45A260514	3
Sanacorp	Wool alcohol cream DAB/SR	12307801	6
Sanacorp	Wool alcohol cream DAB/SR	14002801	13
Sanacorp	Wool alcohol cream DAB/SR	22/AKD2	1
Sanacorp	Wool alcohol cream DAB/SR	287183	1
Sanacorp	Wool alcohol cream DAB/SR	288264	1
Sanacorp	Wool alcohol cream DAB/SR	25/AKD3	1
Sanacorp	Wool alcohol cream DAB/SR	13172102	1
Sanacorp	Wool alcohol cream DAB/SR	27/AKD4	1
Sanacorp	Wool alcohol cream DAB/SR	ch.-B28/AKD10	1
Sanacorp	Wool alcohol cream DAB/SR	1529802	1
Sanacorp	Wool alcohol cream DAB/SR	16090703	2
Sanacorp	Wool alcohol cream DAB/SR	18086302	33
Caelo	Wool alcohol cream DAB/SR	13146001	6
Caelo	Wool alcohol cream DAB/SR	14046502	4
Caelo	Wool alcohol cream DAB/SR	14246301	1
Caelo	Wool alcohol cream DAB/SR	15149902	1
Caelo	Wool alcohol cream DAB/SR	15266001	1
Caelo	Wool alcohol cream DAB/SR	15149801	2
Caelo	Wool alcohol cream DAB/SR	15260001	1
Caelo	Wool alcohol cream DAB/SR	16277903	12
Caelo	Wool alcohol cream DAB/SR	18086303	14
Bombastus	Wool alcohol cream DAB/SR	268902	1
Bombastus	Wool alcohol cream DAB/SR	270725	2
Bombastus	Wool alcohol cream DAB/SR	282751	4
Bombastus	Wool alcohol cream DAB/SR	282753	2
Caelo	Wool alcohol cream DAB/SR	14362201	15
Caelo	Wool alcohol cream DAB/SR	12056301	1
Caelo	Wool alcohol cream DAB/SR	22/AKD52	1
Caelo	Wool alcohol cream DAB/SR	18143901	57
Caelo	Wool alcohol cream DAB/SR	15266401	6
Bombastus	Wool alcohol cream DAB/SR	306218	5
Taoasis	Wool alcohol cream DAB/SR	81/12	1
VDL 28.04;Preis:4,34	Wool alcohol cream DAB/SR	14033202;15R05	1
Caelo	Wormwood tincture (70%) 1:5	92780419	1
Caelo	Wormwood tincture (70%) 1:5	10260210	2
Caelo	Wormwood tincture (70%) 1:5	11145005	1
Caelo	Wormwood tincture (70%) 1:5	12237901	1
Caelo	Wormwood tincture (70%) 1:5	12237902	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Wormwood tincture (70%) 1:5	12237907	1
Caelo	Wormwood tincture (70%) 1:5	12237905	4
Phönix Gotha	Wormwood tincture (70%) 1:5	10010909	1

Supplier	Substance	Batch	Spectra
Caelo	Ylang-ylang oil	23011502	1
Caelo	Ylang-ylang oil	14192905	1
Caelo	Ylang-ylang oil	15101104	1

Supplier	Substance	Batch	Spectra
Caelo	Zinc ointment DAB	11271001	1
Bombastus	Zinc ointment DAB	30071602	1
Bombastus	Zinc ointment DAB	275313	4
Bombastus	Zinc ointment DAB	282182	1
Bombastus	Zinc ointment DAB	277335	2
Bombastus	Zinc ointment DAB	274127	1
Caelo	Zinc ointment DAB	16101202	1
Caelo	Zinc ointment DAB	12042503	3
Caelo	Zinc ointment DAB	20270912-5	1
Caelo	Zinc ointment DAB	12343602	9
Caelo	Zinc ointment DAB	7031303	1
Caelo	Zinc ointment DAB	12098402	4
Caelo	Zinc ointment DAB	12101302	1
Caelo	Zinc ointment DAB	13072702	1
Caelo	Zinc ointment DAB	13257003	1
Caelo	Zinc ointment DAB	13393903	1
Caelo	Zinc ointment DAB	13257001	11
Caelo	Zinc ointment DAB	11367501	3
Caelo	Zinc ointment DAB	1234602	1
Caelo	Zinc ointment DAB	12042502	1
apomix	Zinc oxide cream 25% SR (NRF 1...	7B270513	1
apomix	Zinc oxide cream 25% SR (NRF 1...	13B230813	1
apomix	Zinc oxide cream 25% SR (NRF 1...	4A100413	1
apomix	Zinc oxide cream 25% SR (NRF 1...	15B230913	1
Bombastus	Zinc oxide cream 25% SR (NRF 1...	272491	1
Bombastus	Zinc oxide cream 25% SR (NRF 1...	276966	3
Bombastus	Zinc oxide cream 25% SR (NRF 1...	281755	3
Bombastus	Zinc oxide cream 25% SR (NRF 1...	272490	1
Bombastus	Zinc oxide cream 25% SR (NRF 1...	279248	1
Caelo	Zinc oxide cream 25% SR (NRF 1...	13A040912	3
Caelo	Zinc oxide cream 25% SR (NRF 1...	279250	2
Caelo	Zinc oxide cream 25% SR (NRF 1...	2795250	1
Pharmachem	Zinc oxide cream 25% SR (NRF 1...	110112	1
PharmaChem	Zinc oxide cream 25% SR (NRF 1...	150513	1
Phönix Gotha	Zinc oxide cream 25% SR (NRF 1...	276963	1
PKH GmbH	Zinc oxide cream 25% SR (NRF 1...	2B080113	1
Anzag	Zinc oxide lotion, aqueous DAC	12309601	6
Anzag 08.03.2013	Zinc oxide lotion, aqueous DAC	13018401	16
Bombastus	Zinc oxide lotion, aqueous DAC	274933	1
Bombastus	Zinc oxide lotion, aqueous DAC	281537	1
Bombastus	Zinc oxide lotion, aqueous DAC	284632	1
Caelo	Zinc oxide lotion, aqueous DAC	10082601	1
Caelo	Zinc oxide lotion, aqueous DAC	3101217039	1
Caelo	Zinc oxide lotion, aqueous DAC	12065203	1
Caelo	Zinc oxide lotion, aqueous DAC	12065401	1
Caelo	Zinc oxide lotion, aqueous DAC	12211501	8
Caelo	Zinc oxide lotion, aqueous DAC	711217039	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Zinc oxide lotion, aqueous DAC	4121204	1
Caelo	Zinc oxide lotion, aqueous DAC	12197103	1
Caelo	Zinc oxide lotion, aqueous DAC	12211802	4
Caelo	Zinc oxide lotion, aqueous DAC	28121204	1
Caelo	Zinc oxide lotion, aqueous DAC	20310812-3	1
Caelo	Zinc oxide lotion, aqueous DAC	12307902	1
Caelo	Zinc oxide lotion, aqueous DAC	12309802	11
Caelo	Zinc oxide lotion, aqueous DAC	12309702	6
Caelo	Zinc oxide lotion, aqueous DAC	1230951	1
Caelo	Zinc oxide lotion, aqueous DAC	1013I-01815	1
Caelo	Zinc oxide lotion, aqueous DAC	19041309	1
Caelo	Zinc oxide lotion, aqueous DAC	6061301	1
Caelo	Zinc oxide lotion, aqueous DAC	2713M1815	1
Caelo	Zinc oxide lotion, aqueous DAC	11281301	1
Caelo	Zinc oxide lotion, aqueous DAC	11071303	1
Caelo	Zinc oxide lotion, aqueous DAC	13087701	19
Caelo	Zinc oxide lotion, aqueous DAC	13139402	12
Caelo	Zinc oxide lotion, aqueous DAC	24101311	1
Caelo	Zinc oxide lotion, aqueous DAC	13283101	10
Caelo	Zinc oxide lotion, aqueous DAC	12111306	1
Caelo	Zinc oxide lotion, aqueous DAC	13282901	16
Caelo	Zinc oxide lotion, aqueous DAC	20122013F	1
Caelo	Zinc oxide lotion, aqueous DAC	24122013A	1
Caelo	Zinc oxide lotion, aqueous DAC	13283103	1
Caelo	Zinc oxide lotion, aqueous DAC	15061201	1
Caelo	Zinc oxide lotion, aqueous DAC	14010502	1
Caelo	Zinc oxide lotion, aqueous DAC	14116701	1
Caelo	Zinc oxide lotion, aqueous DAC	14010602	1
Caelo	Zinc oxide lotion, aqueous DAC	13282701	1
Caelo	Zinc oxide lotion, aqueous DAC	14275002	1
Caelo	Zinc oxide lotion, aqueous DAC	15003201	1
Caelo	Zinc oxide lotion, aqueous DAC	15154301	1
Caelo	Zinc oxide lotion, aqueous DAC	15273502	2
Caelo	Zinc oxide lotion, aqueous DAC	16003202	1
Caelo	Zinc oxide lotion, aqueous DAC	16003302	1
Caelo	Zinc oxide lotion, aqueous DAC	14010501	3
Caelo	Zinc oxide lotion, aqueous DAC	12309701	4
Caelo	Zinc oxide lotion, aqueous DAC	13087501	12
Caelo	Zinc oxide lotion, aqueous DAC	13139301	16
Caelo	Zinc oxide lotion, aqueous DAC	13018801	7
Caelo	Zinc oxide lotion, aqueous DAC	13282801	5
Caelo	Zinc oxide lotion, aqueous DAC	132801	1
Caelo	Zinc oxide lotion, aqueous DAC	11329903	2
Caelo	Zinc oxide lotion, aqueous DAC	12211701	15
Caelo	Zinc oxide lotion, aqueous DAC	12211401	6
Caelo	Zinc oxide lotion, aqueous DAC	13018803	5
Caelo	Zinc oxide lotion, aqueous DAC	12065301	8
Caelo	Zinc oxide lotion, aqueous DAC	13087601	23
Caelo	Zinc oxide lotion, aqueous DAC	11184601	1
Caelo	Zinc oxide lotion, aqueous DAC	11281401	1
Caelo	Zinc oxide lotion, aqueous DAC	1109779	1
Caelo	Zinc oxide lotion, aqueous DAC	13283002	7
Caelo	Zinc oxide lotion, aqueous DAC	1319601	2
Caelo	Zinc oxide lotion, aqueous DAC	13024401	5
Caelo	Zinc oxide lotion, aqueous DAC	13139302	5
Caelo	Zinc oxide lotion, aqueous DAC	112814101	1
Caelo	Zinc oxide lotion, aqueous DAC	38112A-01815	1
Caesar & Loretz GmbH	Zinc oxide lotion, aqueous DAC	12309501	32
Caesar & Loretz GmbH	Zinc oxide lotion, aqueous DAC	13405901	4
Calo	Zinc oxide lotion, aqueous DAC	14211601	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Zinc oxide lotion, aqueous DAC	4213Q-01815	1
Fagron	Zinc oxide lotion, aqueous DAC	13K19-T02-014523	1
Fagron	Zinc oxide lotion, aqueous DAC	10H19-T01-000747	1
Finze	Zinc oxide lotion, aqueous DAC	12065501	5
Gehe	Zinc oxide lotion, aqueous DAC	12211402	8
Caelo	Zinc oxide lotion, aqueous DAC	13139601	23
Henry Lamotte	Zinc oxide lotion, aqueous DAC	60480	1
Henry Lamotte GmbH/Ho...	Zinc oxide lotion, aqueous DAC	5289300	3
henry lamotte oils gmbh	Zinc oxide lotion, aqueous DAC	6000083002	1
henry lamotte oils gmbh	Zinc oxide lotion, aqueous DAC	90616-1	1
Henry Lamotte Oils Gmbh	Zinc oxide lotion, aqueous DAC	600320602	1
Henry Lamotte Oils, A...	Zinc oxide lotion, aqueous DAC	5375600	12
Henry Lamotte/ 24.04....	Zinc oxide lotion, aqueous DAC	1221401	1
Caelo	Zinc oxide lotion, aqueous DAC	11329902	1
lamotte	Zinc oxide lotion, aqueous DAC	6003206002	2
Lamotte	Zinc oxide lotion, aqueous DAC	5163600	2
Lamotte	Zinc oxide lotion, aqueous DAC	5099300	1
Lamotte	Zinc oxide lotion, aqueous DAC	5216200	1
Lamotte	Zinc oxide lotion, aqueous DAC	60460	1
Lamotte	Zinc oxide lotion, aqueous DAC	5651500	1
Lamotte	Zinc oxide lotion, aqueous DAC	5735500	3
Lamotte / Gehe	Zinc oxide lotion, aqueous DAC	5321300	10
Lamotte / Gehe	Zinc oxide lotion, aqueous DAC	5517400	12
Lamotte/ Finze	Zinc oxide lotion, aqueous DAC	5563300	2
Noweda	Zinc oxide lotion, aqueous DAC	1211701	1
Caelo	Zinc oxide lotion, aqueous DAC	13283001	3
Noweda/Lamotte	Zinc oxide lotion, aqueous DAC	5447800	9
Phoenix	Zinc oxide lotion, aqueous DAC	4010501	1
Phönix	Zinc oxide lotion, aqueous DAC	11329801	2
Sanacorp	Zinc oxide lotion, aqueous DAC	AKD33	1
apomix	Zinc oxide oil DAC	26C190911	1
Bombastus	Zinc oxide oil DAC	260696	1
Bombastus	Zinc oxide oil DAC	269651	1
Bombastus	Zinc oxide oil DAC	273970	1
Bombastus	Zinc oxide oil DAC	273972	1
Bombastus	Zinc oxide oil DAC	269765	1
Bombastus	Zinc oxide oil DAC	278159	6
Bombastus	Zinc oxide oil DAC	282083	1
Bombastus	Zinc oxide oil DAC	286041	2
Bombastus	Zinc oxide oil DAC	301565	1
Bombastus	Zinc oxide oil DAC	274182	1
Bombastus	Zinc oxide oil DAC	273971	1
Bombastus	Zinc oxide oil DAC	269650	1
Bombastus	Zinc oxide oil DAC	263248	1
Bombastus	Zinc oxide oil DAC	279564	1
Caelo	Zinc oxide oil DAC	2612M-02026	1
Caelo	Zinc oxide oil DAC	12160101	1
Caelo	Zinc oxide oil DAC	12004701	2
Caelo	Zinc oxide oil DAC	12289801	1
Caelo	Zinc oxide oil DAC	13307202	1
Caelo	Zinc oxide oil DAC	14032701	2
Caelo	Zinc oxide oil DAC	15170902	1
Caelo	Zinc oxide oil DAC	15173002	1
Caelo	Zinc oxide oil DAC	16093002	1
Caelo	Zinc oxide oil DAC	12289802	3
Caelo	Zinc oxide oil DAC	12004601	2

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Zinc oxide oil DAC	12160002	1
Caelo	Zinc oxide oil DAC	13069701	13
Caelo	Zinc oxide oil DAC	13196501	2
Gehe	Zinc oxide oil DAC	275086	2
Gehe	Zinc oxide oil DAC	279563	3
Gehe	Zinc oxide oil DAC	275085	1
Gehe	Zinc oxide oil DAC	282085	1
Gehe	Zinc oxide oil DAC	289826	1
lamotte/Gehe	Zinc oxide oil DAC	13196401	4
pharmachem	Zinc oxide oil DAC	90512	1
Phönix	Zinc oxide oil DAC	1C010212	1
Phönix	Zinc oxide oil DAC	286040	1
apomix	Zinc oxide oil DAC	26B190911	1
Caelo	Zinc oxide oil DAC	12128602	2
vdl	Zinc oxide oil DAC	12351702	5
Anzag	Zinc oxide oil SR 90	15B100912	1
apomix	Zinc oxide oil SR 90	6B150413	1
Bombastus	Zinc oxide oil SR 90	6858379	1
Bombastus	Zinc oxide oil SR 90	273973	6
Bombastus	Zinc oxide oil SR 90	277647	1
Pharmachem	Zinc oxide oil SR 90	20712	1
Pharmachem	Zinc oxide oil SR 90	260412	1
Pharmachem	Zinc oxide oil SR 90	150413	1
Pharmachem	Zinc oxide oil SR 90	30712	1
Pharmachem	Zinc oxide oil SR 90	160413	1
Pharmachem Anzag	Zinc oxide oil SR 90	140513	1
Pharmachem GmbH	Zinc oxide oil SR 90	61112	1
pharmachen	Zinc oxide oil SR 90	30045100	1
Pharmachern/AHD	Zinc oxide oil SR 90	160122	1
Bombastus	Zinc oxide paste SR90	273833	1
Bombastus	Zinc oxide paste SR90	266450	1
Bombastus	Zinc oxide paste SR90	279384	1
Bombastus	Zinc oxide paste SR90	279387	1
Bombastus	Zinc oxide paste SR90	276198	1
Bombastus	Zinc oxide paste SR90	276200	3
Bombastus	Zinc oxide paste SR90	256014	1
Caelo	Zinc oxide paste SR90	244154	1
Caelo	Zinc oxide paste SR90	Test2	1
Gehe	Zinc oxide paste SR90	264198	1
Gehe	Zinc oxide paste SR90	266451	1
Gehe	Zinc oxide paste SR90	268240	1
Gehe	Zinc oxide paste SR90	270919	1
Gehe	Zinc oxide paste SR90	276199	2
Gehe	Zinc oxide paste SR90	279386	1
Caelo	Zinc oxide paste SR90	271195	1
AMH Niemann GmbH & Co...	Zinc oxide paste, soft SR90	25A310712	2
AMH Niemann GmbH&Co.KG	Zinc oxide paste, soft SR90	21B210612	1
AMH/ Sanacorp	Zinc oxide paste, soft SR90	43B150811	1
Anzag	Zinc oxide paste, soft SR90	12121501	1
apomix	Zinc oxide paste, soft SR90	34A231012	1
apomix	Zinc oxide paste, soft SR90	3A090113	1
apomix	Zinc oxide paste, soft SR90	4A090113	3
apomix	Zinc oxide paste, soft SR90	12B140313	1
apomix	Zinc oxide paste, soft SR90	6A110213	2
Bombastus	Zinc oxide paste, soft SR90	265452	1
Bombastus	Zinc oxide paste, soft SR90	273330	2
Bombastus	Zinc oxide paste, soft SR90	271192	2
Bombastus	Zinc oxide paste, soft SR90	273328	3

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Zinc oxide paste, soft SR90	275031	2
Bombastus	Zinc oxide paste, soft SR90	275030	4
Bombastus	Zinc oxide paste, soft SR90	273326	1
Bombastus	Zinc oxide paste, soft SR90	277663	2
Bombastus	Zinc oxide paste, soft SR90	279586	4
Bombastus	Zinc oxide paste, soft SR90	281586	2
Bombastus	Zinc oxide paste, soft SR90	271196	2
Bombastus	Zinc oxide paste, soft SR90	273329	4
Caelo	Zinc oxide paste, soft SR90	12366801	1
Gehe	Zinc oxide paste, soft SR90	260912	1
Pharmachem	Zinc oxide paste, soft SR90	70512	1
Phoenix (Pharmachem P...	Zinc oxide paste, soft SR90	191112	1
Bombastus	Zinc oxide paste, soft SR90	277662	1
Caelo	Zinc oxide shaking mixture, et...	12261701	1
Caelo	Zinc oxide shaking mixture, et...	13080201	3
Caelo	Zinc oxide shaking mixture, et...	13244001	1
Caelo	Zinc oxide shaking mixture, et...	1308021	1
Caelo	Zinc oxide shaking mixture, et...	1324401	1
Bombastus	Zinc paste DAB	278272	3
Bombastus	Zinc paste DAB	27113603-15	1
Bombastus	Zinc paste DAB	271133	1
Bombastus	Zinc paste DAB	271136	1
Bombastus	Zinc paste DAB	276144	3
Bombastus	Zinc paste DAB	276143	1
Bombastus	Zinc paste DAB	276141	1
Bombastus	Zinc paste DAB	276145	1
Bombastus	Zinc paste DAB	276146	2
Bombastus	Zinc paste DAB	278861	1
Bombastus	Zinc paste DAB	276604	1
Bombastus	Zinc paste DAB	278865	1
Bombastus	Zinc paste DAB	278863	1
Bombastus	Zinc paste DAB	278270	1
Bombastus	Zinc paste DAB	282037	1
Bombastus	Zinc paste DAB	284662	1
Bombastus	Zinc paste DAB	287850	1
Bombastus	Zinc paste DAB	290176	1
Bombastus	Zinc paste DAB	291718	2
Bombastus	Zinc paste DAB	278273	3
Bombastus	Zinc paste DAB	278274	3
Bombastus	Zinc paste DAB	278864	3
Bombastus	Zinc paste DAB	62/13	1
Bombastus	Zinc paste DAB	273894	1
Bombastus	Zinc paste DAB	271138	2
Bombastus	Zinc paste DAB	280733	2
Bombastus	Zinc paste DAB	280732	1
Bombastus	Zinc paste DAB	271134	1
Caelo	Zinc paste DAB	1321903	1
Caelo	Zinc paste DAB	11321701	3
Caelo	Zinc paste DAB	11290901	1
Caelo	Zinc paste DAB	12206501	9
Caelo	Zinc paste DAB	12066102	1
Caelo	Zinc paste DAB	20271012-1	1
Caelo	Zinc paste DAB	10345201	3
Caelo	Zinc paste DAB	20021310	1
Caelo	Zinc paste DAB	903312054	1
Caelo	Zinc paste DAB	12206401	3
Caelo	Zinc paste DAB	12271702	9
Caelo	Zinc paste DAB	13043401	19
Caelo	Zinc paste DAB	31051302	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Zinc paste DAB	10245901	2
Caelo	Zinc paste DAB	13201801	22
Caelo	Zinc paste DAB	11321702	1
Caelo	Zinc paste DAB	14011402	1
Caelo	Zinc paste DAB	14092301	1
Caelo	Zinc paste DAB	13201201	1
Caelo	Zinc paste DAB	14201201	1
Caelo	Zinc paste DAB	14293302	1
Caelo	Zinc paste DAB	16013302	1
Caelo	Zinc paste DAB	16068501	1
Caelo	Zinc paste DAB	12271601	9
Caelo	Zinc paste DAB	13043301	4
Caelo	Zinc paste DAB	18162502	1
Caelo	Zinc paste DAB	19030401	1
Caelo	Zinc paste DAB	19049201	1
Caelo	Zinc paste DAB	13201701	1
Caelo	Zinc paste DAB	11290801	2
Caelo	Zinc paste DAB	12147801	12
Caelo	Zinc paste DAB	19093102	1
Caelo	Zinc paste DAB	19166001	1
Caelo	Zinc paste DAB	13345301	1
Caelo	Zinc paste DAB	11364102	3
Caelo	Zinc paste DAB	12262301	2
Caelo	Zinc paste DAB	13345202	1
Caelo	Zinc paste DAB	15121-02054	1
Caesar & Loretz GmbH	Zinc paste DAB	281972	1
Bombastus	Zinc paste DAB	271135	2
Fagron	Zinc paste DAB	273893	1
Fagron	Zinc paste DAB	12I06-T01	1
Fiebig	Zinc paste DAB	268489	1
Noweda	Zinc paste DAB	276606	1
phönix	Zinc paste DAB	12147903	1
Sanacorp	Zinc paste DAB	13043502	3
Sanacorp	Zinc paste DAB	13201903	1
Sanacorp	Zinc paste DAB	13345101	7
Wasserfuhr	Zinc paste DAB	12169401	1
Alliance Health	Zinc paste, soft DAB	278229	4
Alliance Healthcare	Zinc paste, soft DAB	281118	1
Anzag	Zinc paste, soft DAB	12121501	1
Anzag	Zinc paste, soft DAB	14023301	4
Anzag 18.10.12	Zinc paste, soft DAB	12121401	3
apomix	Zinc paste, soft DAB	13A040912	1
apomix	Zinc paste, soft DAB	41B051212	1
bom	Zinc paste, soft DAB	286902	1
Bombastus	Zinc paste, soft DAB	265457	1
Bombastus	Zinc paste, soft DAB	267515	1
Bombastus	Zinc paste, soft DAB	271195	2
Bombastus	Zinc paste, soft DAB	270465	3
Bombastus	Zinc paste, soft DAB	5216300	4
Bombastus	Zinc paste, soft DAB	271194	1
Bombastus	Zinc paste, soft DAB	271340	3
Bombastus	Zinc paste, soft DAB	274972	2
Bombastus	Zinc paste, soft DAB	273701	1
Bombastus	Zinc paste, soft DAB	274971	1
Bombastus	Zinc paste, soft DAB	271341	2
Bombastus	Zinc paste, soft DAB	276540	3
Bombastus	Zinc paste, soft DAB	276536	1
Bombastus	Zinc paste, soft DAB	274973	1
Bombastus	Zinc paste, soft DAB	275948	1
Bombastus	Zinc paste, soft DAB	280233	1

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Bombastus	Zinc paste, soft DAB	276538	2
Bombastus	Zinc paste, soft DAB	280234	1
Bombastus	Zinc paste, soft DAB	278226	1
Bombastus	Zinc paste, soft DAB	280235	1
Bombastus	Zinc paste, soft DAB	281117	1
Bombastus	Zinc paste, soft DAB	282863	1
Bombastus	Zinc paste, soft DAB	270516	2
Bombastus	Zinc paste, soft DAB	278228	2
Bombastus	Zinc paste, soft DAB	281116	2
Bombastus	Zinc paste, soft DAB	282861	1
Bombastus	Zinc paste, soft DAB	267590	1
Bombastus	Zinc paste, soft DAB	282859	1
Bombastus	Zinc paste, soft DAB	293485	1
Bombastus	Zinc paste, soft DAB	281122	4
Bombastus	Zinc paste, soft DAB	267591	1
Bombastus	Zinc paste, soft DAB	278227	1
Bombastus	Zinc paste, soft DAB	278223	1
Bombastus	Zinc paste, soft DAB	276539	3
Bombastus	Zinc paste, soft DAB	281121	2
Bombastus	Zinc paste, soft DAB	262918	1
Bombastus	Zinc paste, soft DAB	266383	1
Bombastus	Zinc paste, soft DAB	271344	2
Bombastus	Zinc paste, soft DAB	274978	3
Bombastus	Zinc paste, soft DAB	276537	1
Caelo	Zinc paste, soft DAB	28031401	1
Caelo	Zinc paste, soft DAB	2101212055	1
Caelo	Zinc paste, soft DAB	11099003	1
Caelo	Zinc paste, soft DAB	11269701	2
Caelo	Zinc paste, soft DAB	1403212055	1
Caelo	Zinc paste, soft DAB	11202101	1
Caelo	Zinc paste, soft DAB	11338501	2
Caelo	Zinc paste, soft DAB	208212055	1
Caelo	Zinc paste, soft DAB	11338401	1
Caelo	Zinc paste, soft DAB	12068901	2
Caelo	Zinc paste, soft DAB	1212401	1
Caelo	Zinc paste, soft DAB	12121302	2
Caelo	Zinc paste, soft DAB	711212055	1
Caelo	Zinc paste, soft DAB	17111203	1
Caelo	Zinc paste, soft DAB	12207801	1
Caelo	Zinc paste, soft DAB	12207901	8
Caelo	Zinc paste, soft DAB	12208101	6
Caelo	Zinc paste, soft DAB	213E-02055	1
Caelo	Zinc paste, soft DAB	1601312055	1
Caelo	Zinc paste, soft DAB	12271301	4
Caelo	Zinc paste, soft DAB	6021305	1
Caelo	Zinc paste, soft DAB	12271401	10
Caelo	Zinc paste, soft DAB	12366801	12
Caelo	Zinc paste, soft DAB	13026901	20
Caelo	Zinc paste, soft DAB	13026702	8
Caelo	Zinc paste, soft DAB	12366703	1
Caelo	Zinc paste, soft DAB	13027001	8
Caelo	Zinc paste, soft DAB	11061301	1
Caelo	Zinc paste, soft DAB	13088701	22
Caelo	Zinc paste, soft DAB	2713E2055	1
Caelo	Zinc paste, soft DAB	12206201	1
Caelo	Zinc paste, soft DAB	13088901	12
Caelo	Zinc paste, soft DAB	13089001	13
Caelo	Zinc paste, soft DAB	8081301	1
Caelo	Zinc paste, soft DAB	13203501	12
Caelo	Zinc paste, soft DAB	70913WZP	1

continued on the next page

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

continued from previous page

Supplier	Substance	Batch	Spectra
Caelo	Zinc paste, soft DAB	13203301	16
Caelo	Zinc paste, soft DAB	13088/01	1
Caelo	Zinc paste, soft DAB	13088602	1
Caelo	Zinc paste, soft DAB	13203401	11
Caelo	Zinc paste, soft DAB	13203701	2
Caelo	Zinc paste, soft DAB	13316301	23
Caelo	Zinc paste, soft DAB	14111313	1
Caelo	Zinc paste, soft DAB	13316601	6
Caelo	Zinc paste, soft DAB	13387801	5
Caelo	Zinc paste, soft DAB	14023601	1
Caelo	Zinc paste, soft DAB	14023801	1
Caelo	Zinc paste, soft DAB	14023701	3
Caelo	Zinc paste, soft DAB	14117801	1
Caelo	Zinc paste, soft DAB	14173201	1
Caelo	Zinc paste, soft DAB	1417601	1
Caelo	Zinc paste, soft DAB	14023401	1
Caelo	Zinc paste, soft DAB	14173001	2
Caelo	Zinc paste, soft DAB	14181702	1
Caelo	Zinc paste, soft DAB	14172901	1
Caelo	Zinc paste, soft DAB	14296301	1
Caelo	Zinc paste, soft DAB	15005202	1
Caelo	Zinc paste, soft DAB	15072701	3
Caelo	Zinc paste, soft DAB	15073001	1
Caelo	Zinc paste, soft DAB	15072901	1
Caelo	Zinc paste, soft DAB	16001201	3
Caelo	Zinc paste, soft DAB	16042101	1
Caelo	Zinc paste, soft DAB	13036901	1
Caelo	Zinc paste, soft DAB	12308307	1
Caelo	Zinc paste, soft DAB	12208001	7
Caelo	Zinc paste, soft DAB	12366701	10
Caelo	Zinc paste, soft DAB	63075606	1
Caelo	Zinc paste, soft DAB	12069001	4
Caelo	Zinc paste, soft DAB	13026801	7
Caelo	Zinc paste, soft DAB	19007401	1
Caelo	Zinc paste, soft DAB	19035701	1
Caelo	Zinc paste, soft DAB	12271501	10
Caelo	Zinc paste, soft DAB	13316701	1
Caelo	Zinc paste, soft DAB	414U-02055	1
Caelo	Zinc paste, soft DAB	16121901	1
Caelo	Zinc paste, soft DAB	1212601	1
Caelo	Zinc paste, soft DAB	13388001	3
Caelo	Zinc paste, soft DAB	12208201	7
Caelo	Zinc paste, soft DAB		2
Caelo	Zinc paste, soft DAB	13089101	5
Caelo	Zinc paste, soft DAB	18136601	1
Caelo	Zinc paste, soft DAB	13316401	6
Caelo	Zinc paste, soft DAB	3413E-02055	1
Caesar & Loretz GmbH	Zinc paste, soft DAB	11269601	2
...			
Defektur	Zinc paste, soft DAB	54/12	1
Defektur	Zinc paste, soft DAB	11/13	1
Defektur	Zinc paste, soft DAB	32/13	1
Defektur	Zinc paste, soft DAB	56/13	1
Euro OTC	Zinc paste, soft DAB	1211014-01	7
Euro OTC	Zinc paste, soft DAB	214I-02055	1
Euro OTC	Zinc paste, soft DAB	13211014-01	1
Euro OTC	Zinc paste, soft DAB	1310019-01	2
Euro OTC	Zinc paste, soft DAB	121014-01	1
Euro OTC	Zinc paste, soft DAB	1009043-01	3
Euro OTC	Zinc paste, soft DAB	1108059-01	4

continued on the next page

continued from previous page

Supplier	Substance	Batch	Spectra
Fagron	Zinc paste, soft DAB	12/26-T03	1
Fagron	Zinc paste, soft DAB	12J26-T03	6
Fagron	Zinc paste, soft DAB	4113A-02055	1
Fagron	Zinc paste, soft DAB	10D15-T01	1
Fagron	Zinc paste, soft DAB	13H13-T05-006158	1
Gehe	Zinc paste, soft DAB	11338801	4
Gehe	Zinc paste, soft DAB	12068801	6
Gehe	Zinc paste, soft DAB	11338601	2
Gehe	Zinc paste, soft DAB	130112	1
Gehe	Zinc paste, soft DAB	12A250412	1
Bombastus	Zinc paste, soft DAB	271343	1
Bombastus	Zinc paste, soft DAB	270463	2
Henry Lamotte	Zinc paste, soft DAB	5375700	3
Henry Lamotte Oils GmbH	Zinc paste, soft DAB	5374900	5
Caelo	Zinc paste, soft DAB	5316600	4
Lamotte	Zinc paste, soft DAB	5517500	1
lamotte/Noweda	Zinc paste, soft DAB	5447900	4
Pharmachem Anzag	Zinc paste, soft DAB	191112	1
Phoenix	Zinc paste, soft DAB	281120	1
Phönix	Zinc paste, soft DAB	13040201	10
Phönix	Zinc paste, soft DAB	278225	1
Phönix	Zinc paste, soft DAB	13316501	8
Phönix Gotha	Zinc paste, soft DAB	12069101	3
Phönix Gotha	Zinc paste, soft DAB	12271502	4
Phönix Gotha	Zinc paste, soft DAB	13088801	9
Caelo	Zinc paste, soft DAB	12121601	9
Caelo	Zinc paste, soft DAB	1268901	1
Sanacorp	Zinc paste, soft DAB	273704	2
Sanacorp	Zinc paste, soft DAB	274979	1
Caelo	Zinc paste, soft DAB	11338001	1
Caelo	Zinc paste, soft DAB	12068701	4
Bombastus	Zinc paste, soft DAB	278671	1
Caelo	Zinc paste, soft DAB	13004101	1
Caelo	Zinc paste, soft DRF (stabilis...	13094201	2
Caelo	Zinc paste, soft DRF (stabilis...	12160302	1
Caelo	Zinc paste, soft DRF (stabilis...	12378402	1

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Appendix D: Requirements of validation

In order to ensure adherence to the safe scientific status, the individual methods for manufacturing and testing must be validated under certain circumstances (compare § 34 para. 1 no. 3, § 35 para. 1 no. 4 and para. 4 sentence 1 no. 2 b, para. 6 sentence 3 *ApoBetrO* [Pharmacies Rules and Regulations]). The *ApoBetrO* [Pharmacies Rules and Regulations] incorporates a legal definition in § 1 a para. 16 (quotation translated):

> *"Validation is the provision of documented proof which with a high degree of safety documents that, via a specific process or standard work process, a medicinal product is manufactured and tested, which is in accordance with previously determined quality features."*

Validation documentation can be used to prove that methods or devices which are not described in the Pharmacopoeia within the meaning of § 6 para. 1 sentence 3 *ApBetrO* [Pharmacies Rules and Regulations] achieve the same results as those in the Pharmacopoeia. On the other hand, with the requirements of the demanded validation it must be observed whether the respective testing method is already incorporated in the Pharmacopoeia.

NIR spectroscopy as a general testing method need not be validated in accordance with the express ruling in the *Ph. Eur. Section 1.1* [3], as it is already described in *Section 2.2.40* of the *Ph. Eur.* as an area of application for the identification of raw materials.

However, a special validation requirement exists for the reference database. This requirement is met with the existing document. Further requirements or rules as to how this proof must be furnished do not exist. It is required that the processes guarantee the same results as the methods and devices in the Pharmacopoeia [17].

Carrying out identity tests with *Apo-Ident* is therefore also possible if the NIR spectroscopy process is not required in the Pharmacopoeia monograph of the substance for identity testing. All NIR analyses with *Apo-Ident* prove several, often all molecule groups and are therefore comparable with a series of individual, targeted chemical proofs [4]. Therefore, the identity proof with *Apo-Ident* replaces the monograph test series (with two or more test combinations).

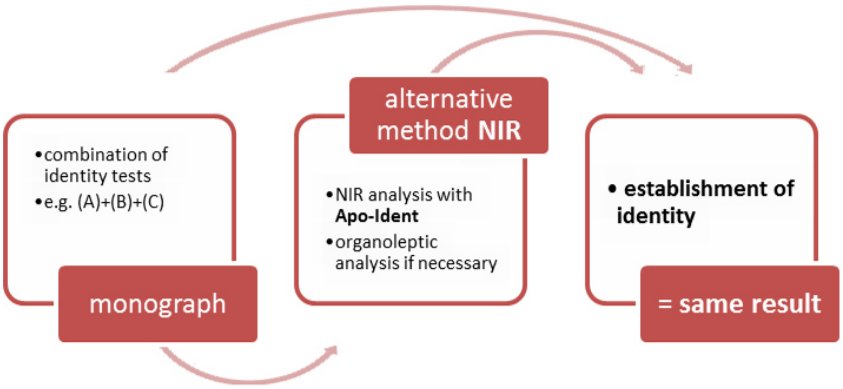

Figure 2: The combination of tests of the monograph is replaced by the alternative method NIR spectroscopy using *Apo-Ident*. This is permissible because both test procedures result in the establishment of the identity of the raw material.

With this validation documentation, proof is furnished that identical results are achieved with *Apo-Ident* and Pharmacopoeia methods, i.e. confirmation of the identity of the raw material [2].

Appendix E: Conformity of *Apo-Ident* with the *European pharmacopeia*

According to *Ph. Eur. Section 2.2.40*, NIR spectroscopy is basically suitable for: "Identification of agents, excipients, dosage forms, intermediate manufacturing products, chemical raw materials and packaging materials" ([3], quotation translated).

The fact that *Apo-Ident* meets the further criteria of the European Pharmacopoeia under the headings in *Section 2.2.40*

- Apparatus
- Measurement methods
- Sample preparation and presentation
- Testing the functionality of the instrument
- Identification and characterisation (qualitative analysis)
- Quantitative analysis
- Ongoing model evaluation
- Transfer of databases
- Data storage

can be proven based on the *HiperScan GmbH* documentation of "Meeting *2.2.40 Ph. Eur.* by *Apo-Ident*" [4].

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Appendix F: Addition to the second-stage models

As described in the general part of the *Apo-Ident* validation documentation, in the section Model creation procedure and validation runs, under *2. Generating the chemometric models (calibration)* in *f)*, it is possible to create a further chemometric model for certain substances (second-stage model) and to undertake the assessment in several steps.

Substances in second-stage models

In the substance class *APIs & excipients, liquid/semi-solid (with analysis certificate)*, a distinction is made between the following substances in the listed second-stage models:

Submodell - Submodel 06

2-ethylhexyl laurate
Base cream DAC
Eucerin® cum Aqua
Lanette® ointment (conserved)
Non-ionic hydrophil ointment
Squalane
Wool alcohol cream DAB
Wool alcohol cream SR

Submodell - Submodel 10

Lauromacrogol 400
Macrogol 20 glycerol monostearate type II
Macrogol 4 lauryl ether
Macrogol 8 stereate type I
Macrogolglycerol hydroxystearate 40
Macrogolglycerol ricinoleate
Polysorbate 20
Polysorbate 60
Polysorbate 80

Submodell - Submodel 16

Cinnamon bark oil, artificial
Cinnamon bark oil, Ceylon

References

[1] ABDA – Bundesvereinigung Deutscher Apothekerverbände: Verordnung über den Betrieb von Apotheken (Apothekenbetriebsordnung – ApBetrO), 2012

[2] Reimann, B. ; Regierungspräsidium Darmstadt: Hinweise zur ordnungsgemäßen Prüfung von Arzneimitteln und Ausgangsstoffen (§§ 6 und 11 *ApBetrO*), 2007

[3] *Europäisches Arzneibuch, Grundwerk 2020.* 10. Ausgabe. Deutscher Apotheker Verlag (978-3-7692-7517-9)

[4] HiperScan GmbH: Erfüllung von 2.2.40 Ph. Eur. durch Apo-Ident, 2013

[5] Arbeitsgemeinschaft der Pharmazieräte Deutschlands (APD): Resolution in Verbindung mit §§ 6 und 11 *ApBetrO* Verwendung eines Nah-Infrarot-Spektrometers (NIR) zur Identitätsprüfung, 16. 10. 2013, DAZ 48, November 2013

[6] Arbeitsgemeinschaft der Pharmazieräte Deutschlands (APD): Resolution 2014, Arbeitsgemeinschaft der Pharmazieräte Deutschlands (APD), Oktober 2014

[7] *DAC/NRF.* Govi-Verlag (978-3-7741-0044-2)

[8] Kessler, W.: *Multivariate Datenanalyse.* WILEY-VCH Verlag, 2007 (978-3-527-31262-7)

[9] Næs, T. ; Isaksson, T. ; Fearn, T. ; Davies, T.: *Multivariate Calibration and Classification.* NIR Publications, 2002 (978 0 9528666 2 6)

[10] Hanley, J. A. ; Lippman-Hand, A.: If nothing goes wrong, is everything all right? In: *Journal of the American Medical Association* 249 (1983), S. 1743–1745

[11] Jovanovic, B. D. ; Levy, P. S.: A Look at the Rule of Three. In: *The American Statistician* 51 (1997), S. 137–139

[12] Bronstein, I. N. ; Semendjajew, K. A. ; Musiol, G. ; Mühlig, H.: *Taschenbuch der Mathematik.* 5. überarbeitete und erweiterte Auflage. Verlag Harri Deutsch, 2000 (3-8171-2015-2)

[13] Mahalanobis, P.: On the generalized distance in statistics. In: *Proc. Nat. Inst. Sci. India (Calcutta)* 2 (1936), S. 49–55

[14] Yambor, B. ; Draper, W. ; Beveridge, R.: Analyzing PCA-based face recognition algorithms: Eigenvector selection and distance measures. In: *Second Workshop Empirical Evaluation in Computer Vision* (2000)

[15] HiperScan GmbH: Identifikationsmethodik Apo-Ident, 2012

[16] HiperScan GmbH: Datenvorbehandlung des Identifikationssystems Apo-Ident, 2012

[17] Cyran ; Rotta: Apothekenbetriebsordnung, Kommentar § 6 Rn. 10, 2010

Index

(s)-Lactic acid, 21
α-Tocopherol, 2313
1,3-Butandiolum, *see* 1,3-butanediol, 33
1,3-butanediol, 33
2-Ethylhexylis lauras, *see* 2-ethylhexyl laurate, 37
2-ethylhexyl laurate, 37

Abwaschbare Salbengrundlage (NRF S.31), *see* Paraffin classification, 1419
Acetic acid 30%, 49
Acetic acid 99%, 55
Acetone, 63
Acetonum, *see* Acetone, 63
Acidum (s)-lacticum, *see* (s)-Lactic acid, 21
Acidum aceticum dilutum 30%, *see* Acetic acid 30%, 49
Acidum aceticum glaciale, *see* Acetic acid 99%, 55
Acidum glycolicum 70%, *see* Glycolic acid 70%, 765
Acidum L (+)-lacticum 20%, *see* Dextrorotary lactic acid 20%, 559
Acidum oleicum, *see* Oleic acid, 1409
Acidum salicylicum cum vaselino 50 per centum, *see* Salicylic acid 50% (paraffin), 1777
Acorus oil, 81
Adeps lanae, *see* Softisan® 378 / Wool fat, 1843
Aether, *see* Ether, 643
Alcohol isopropylicus, *see* Isopropyl alcohol, 1003
Alcohol isopropylicus 70%, *see* Isopropyl alcohol 70%, 1059
Alkohol benzylicus, *see* Benzyl alcohol, 277
all-rac-α-Tocopherol, *see* α-Tocopherol, 2313
all-rac-alpha-tocopheryl acetate, 87
Almond oil, refined, *see* Triglycerides, 1967
Althae sirupus (konserviert), *see* Syrups, 1925
Aluminii acetatis tartratis solutio, *see* Water and aqueous solutions, 2197
Aluminium acetotartrate solution, *see* Water and aqueous solutions, 2197
Amygdalae oleum raffinatum, *see* Triglycerides, 1967
Angelica root oil, 97
Anionic hydrophilic cream DAB, *see* Hydrophilic ointments, 801
Anionic hydrophilic cream SR (NRF p.27), *see* Hydrophilic ointments, 801
Anionic hydrophilic cream with propylene glycol, *see* Hydrophilic ointments, 801
Anionic hydrophlic cream without preservatives, *see* Hydrophilic ointments, 801
Anise oil, *see* Anise oil / Star aniseed oil, 103
Anise oil / Star aniseed oil, 103
Anisi aetheroleum, *see* Anise oil / Star aniseed oil, 103
Anisi stellati aetheroleum, *see* Anise oil / Star aniseed oil, 103
Apricot kernel oil, refined, *see* Triglycerides, 1967
Aqua, *see* Water and aqueous solutions, 2197
Aqueous salicylic acid 50% (non-ionic, hydrophilic cream SR), 111
Aurantii dulcis aetheroleum, *see* Citrus oils, 407
Avocado oil, refined, *see* Triglycerides, 1967

Base cream DAC, 121
Base cream, diluted, *see* Hydrophilic ointments, 801
Base cream, hydrophobic DAC, *see* Hydrophilic ointments, 801
Basis Cordes® RK, 249
Benzalkonii chloridi solutio 50%, *see* Benzalkonium chloride solution 50%, 269
Benzalkonium chloride solution 50%, 269
Benzinum DAB, *see* Petroleum ether DAB, 1623
Benzyl alcohol, 277
Benzyl benzoate, 283
Benzyl nicotinate, 289
Benzylis benzoas, *see* Benzyl benzoate, 283
Benzylis nicotinas, *see* Benzyl nicotinate, 289
Bergamot oil, 295
Bitter almond oil, 301
Bitter orange oil, *see* Citrus oils, 407
Bitter-fennel fruit oil, 305
Borage oil, refined, stabilised, *see* Triglycerides, 1967
Butyrospermi parkii adeps raffinatus, *see* Triglycerides, 1967

Cajeput (essentiel oil), 311
Camphor oil 20%, 317
Camphor ointment, 323
Camphor spirit, 329
Caraway oil, 337
Carthami oleum raffinatum, *see* Triglycerides, 1967
Carvi aetheroleum, *see* Caraway oil, 337
Caryophylli floris aetheroleum, *see* Clove oil, 425

Castor oil, refined, *see* Castor oil, virgin / Sorbitan- and glycerol monooleate, 345
Castor oil, virgin, *see* Castor oil, virgin / Sorbitan- and glycerol monooleate, 345
Castor oil, virgin / Sorbitan- and glycerol monooleate, 345
Cedar leaf oil, 371
Cedar wood oil, 375
Cetiol® HE, 381
Cherry syrup (conserved), *see* Syrups, 1925
Chest elixir, *see* Wines, 2277
Chlorhexidine digluconate solution, *see* Water and aqueous solutions, 2197
Chlorhexidini digluconatis solutio, *see* Water and aqueous solutions, 2197
Cineole, 387
Cineolum, *see* Cineole, 387
Cinnamomi zeylanici corticis aetheroleum, *see* Cinnamon bark oil, Ceylon, 395
Cinnamon bark oil, artificial, 391
Cinnamon bark oil, Ceylon, 395
Citri reticulatae aetheroleum, *see* Mandarin oil, 1329
Citric oil, *see* Citrus oils, 407
Citronella oil, 401
Citronellae aetheroleum, *see* Citronella oil, 401
Citrus oils, 407
Clary sage oil, *see* Lavender oil / Clary sage oil, 1173
Clotrimazole 10% Cordes® RK, 419
Clove oil, 425
Coal tar spirit SR, 435
Codliver oil (type A), *see* Triglycerides, 1967
Collodion 4%, 443
Condurango wine, *see* Wines, 2277
Cooling cream / Cooling cream with rose oil, 449
Cooling cream DAB, *see* Cooling cream / Cooling cream with rose oil, 449
Cooling ointment DAB 6, *see* Cooling cream / Cooling cream with rose oil, 449
Cordes® base solution, 509
Coriander oil, 513
Coriandri aetheroleum, *see* Coriander oil, 513
Corn oil, refined, *see* Triglycerides, 1967
Cremor basalis, *see* Base cream DAC, 121
Cremor basalis hydrophobicus, *see* Hydrophilic ointments, 801
Cypress oil, *see* Wood oils, 2287

Decyl oleate, *see* Triglycerides, 1967
Decylis oleas, *see* Triglycerides, 1967
Dehydol® LS 2, *see* Macrogol-2-laurylether, 1297
Dexpanthenol, 519
Dexpanthenol concentrate 50%, 547
Dexpanthenolum, *see* Dexpanthenol, 519
Dextrorotary lactic acid 20%, 559
Dimethyl sulfoxide, 565
Dimethylis sulfoxidum, *see* Dimethyl sulfoxide, 565
Dimeticon 100 / 350 / 1000, 581
Dimeticone 100, *see* Dimeticon 100 / 350 / 1000, 581
Dimeticone 1000, *see* Dimeticon 100 / 350 / 1000, 581
Dimeticone 350, *see* Dimeticon 100 / 350 / 1000, 581
Dimeticonum 100, *see* Dimeticon 100 / 350 / 1000, 581
Dimeticonum 1000, *see* Dimeticon 100 / 350 / 1000, 581
Dimeticonum 350, *see* Dimeticon 100 / 350 / 1000, 581
Dwarf pine oil, 589

Emulsifying hydrophobic base gel DAC, *see* Paraffin classification, 1419
Emulsio basalis hydrophilica, *see* Hydrophilic base emulsion (NRF p.25), 783
Ethanol 90%, 597
Ethanol 96%, 613
Ethanolum 90% rein / vergällt, *see* Ethanol 90%, 597
Ethanolum 96%, *see* Ethanol 96%, 613
Ether, 643
Ethyl acetate, 653
Ethylis acetas, *see* Ethyl acetate, 653
Eucalypti aetheroleum, *see* Eucalyptus oil / Rosmary oil, 659
Eucalyptus oil, *see* Eucalyptus oil / Rosmary oil, 659
Eucalyptus oil / Rosmary oil, 659
Eucerin® cum Aqua, *see* Wool alcohols creams, 2295
Eugenol, 677
Eugenolum, *see* Eugenol, 677
Evening primrose oil, refined, *see* Triglycerides, 1967
Eye ointment, emulsifying DAC, *see* Paraffin classification, 1419
Eye paraffin, *see* Paraffin classification, 1419

Fennel honey (conserved), *see* Syrups, 1925
Flaxseed oil, native, *see* Triglycerides, 1967
Foeniculi amari fructus aetheroleum, *see* Bitter-fennel fruit oil, 305
Fortified wine, *see* Wines, 2277

Gel basis Audor®, *see* Wines, 2277
Gel Cordes®, 683

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Gelatum basalis hydrophobicum, *see* Paraffin classification, 1419
Gelatum basalis hydrophobicum emulsificans, *see* Paraffin classification, 1419
Geranium oil, genuine, 691
Glucose syrup, 697
Glucose syrup GE 40%, *see* Glucose syrup, 697
Glucosum liquidum, *see* Glucose syrup, 697
Glycerine ointment (conserved), 703
Glycerol, 709
Glycerol 85%, 719
Glycerolum, *see* Glycerol, 709
Glycerolum 85%, *see* Glycerol 85%, 719
Glycolic acid 70%, 765
Grape seed oil, refined, *see* Triglycerides, 1967
Grapefruit oil, *see* Citrus oils, 407
Guaiazulene 25%, water-soluble, 771

Helianthi annui oleum raffinatum, *see* Triglycerides, 1967
Honey, *see* Honeys, 777
Honeys, 777
Hydrated liniment SR/DAC (NRF p.40), *see* Liniment ointments, 1191
Hydrophilic base emulsion (NRF p.25), 783
Hydrophilic cream, non-ionic SR (NRF p.26), *see* Hydrophilic ointments, 801
Hydrophilic cream, non-ionic without preservatives SR, *see* Hydrophilic ointments, 801
Hydrophilic ointment DAB, *see* Paraffin classification, 1419
Hydrophilic ointments, 801
Hydrophobic base gel DAC, *see* Paraffin classification, 1419
Hydroxyethyl salicylate, 997
Hydroxyethylis salicylas, *see* Hydroxyethyl salicylate, 997

Iecoris aselli oleum A, *see* Triglycerides, 1967
int-rac-α-Tocopherolum, *see* α-Tocopherol, 2313
int-rac-alpha-Tocopherylis acetas, *see* all-rac-alpha-tocopheryl acetate, 87
Ipecacuanha syrup (NRF 19.1), *see* Syrups, 1925
Isopropyl alcohol, 1003
Isopropyl alcohol 70%, 1059
Isopropyl myristate, 1111
Isopropyl palmitate, 1121
Isopropylis myristas, *see* Isopropyl myristate, 1111
Isopropylis palmitas, *see* Isopropyl palmitate, 1121

Jojoba Oil, native, *see* Triglycerides, 1967
Juniper oil, 1131
Juniper wood oil, *see* Wood oils, 2287
Juniperi aetheroleum, *see* Juniper oil, 1131
Juniperi ligni etheroleum, *see* Wood oils, 2287

Lanae alcoholum unguentum, *see* Paraffin classification, 1419
Lanae alcoholum unguentum aquosum DAB, *see* Wool alcohols creams, 2295
Lanette® ointment (conserved), 1137
Lanolin DAB, 1147
Lanolinum DAB, *see* Lanolin DAB, 1147
Laurel oil, *see* Triglycerides, 1967
Lauri oleum, *see* Triglycerides, 1967
Lauromacrogol 400, *see* Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40, 1235
Lauromacrogolum 400, *see* Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40, 1235
Lavandulae aetheroleum, *see* Lavender oil / Clary sage oil, 1173
Lavender oil, *see* Lavender oil / Clary sage oil, 1173
Lavender oil / Clary sage oil, 1173
Lecithinum e sojae, liquidus, *see* Triglycerides, 1967
Limonis aetheroleum, *see* Citrus oils, 407
Lini oleum virginale, *see* Triglycerides, 1967
Liniment ointments, 1191
Linimentum aquosum N (NRF S. 39), *see* Liniment ointments, 1191
Linimentum aquosum SR/DAC (NRF S.40), *see* Liniment ointments, 1191
Liquiritiae succi elixir, *see* Wines, 2277
Liquorice juice purified, diluted, *see* Wines, 2277
Lotio Cordes®, *see* Wines, 2277

Macrogol 20 glycerol monostearate type II, *see* Polysorbates / Macrogol 20 glycerol monostearate type II, 1685
Macrogol 20 glyceroli monostearas, *see* Polysorbates / Macrogol 20 glycerol monostearate type II, 1685
Macrogol 4 lauryl ether, *see* Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40, 1235
Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40, 1235
Macrogol 8 stereate type I, 1283
Macrogol ointment, 1289
Macrogol-2-laurylether, 1297
Macrogolglycerol hydroxystearate 40, *see* Macrogol 4 lauryl ether /

Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40, 1235
Macrogolglycerol ricinoleate, 1303
Macrogolglyceroli hydroxystearas, *see* Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40, 1235
Macrogolglyceroli ricinoleas, *see* Macrogolglycerol ricinoleate, 1303
Macrogoli aether laurilicus, *see* Macrogol 4 lauryl ether / Lauromacrogol 400 / Macrogolglycerol hydroxystearate 40, 1235
Macrogoli unguentum DAC, *see* Macrogol ointment, 1289
Macrogols 300, 1309
Macrogols 400, 1315
Macrogolum 400, *see* Macrogols 400, 1315
Mandarin oil, 1329
Marshmallow syrup (conserved), *see* Syrups, 1925
Matricaria oil, rich in (-)-alpha-bisabolol, 1333
Maydis oleum raffinatum, *see* Triglycerides, 1967
Mel, *see* Honeys, 777
Mel foeniculi (konserviert), *see* Syrups, 1925
Mel rosatum, *see* Honeys, 777
Melaleucae aetheroleum, *see* Tea tree oil, 1953
Melissa oil, 1339
Menthae arvensis aetheroleum partim mentholum depletum, *see* Mint oil / Peppermint oil, 1357
Menthae crispae aetheroleum, *see* Spearmint oil, 1897
Menthae piperitae aetheroleum, *see* Mint oil / Peppermint oil, 1357
Methyl salicylate, 1345
Methylis salicylas, *see* Methyl salicylate, 1345
Metronidazole 25% in white petrolatum, 1351
Mint oil, *see* Mint oil / Peppermint oil, 1357
Mint oil / Peppermint oil, 1357
Myrtle oil, 1371

Natrii (s)-lactatis solutio 50%, *see* Sodium-(s)-lactate solution 50%, 1809
Non-ionic hydrophil ointment, 1377
Non-ionic hydrophil ointment, conserved, *see* Non-ionic hydrophil ointment, 1377
Non-ionic hydrous liniment SR/DAC (NRF P. 39), *see* Liniment ointments, 1191

Octyldodecanol, 1391
Octyldodecanolum, *see* Octyldodecanol, 1391
Oculentum emulsificans DAC, *see* Paraffin classification, 1419
Oenotherae oleum raffinatum, *see* Triglycerides, 1967
Oleic acid, 1409
Oleum Amygdalarum amararum, *see* Bitter almond oil, 301
Oleum angelicae (e radice), *see* Angelica root oil, 97
Oleum arachidis raffinatum, *see* Triglycerides, 1967
Oleum aurantii pericarpii, *see* Citrus oils, 407
Oleum boraginis raffinatum, *see* Triglycerides, 1967
Oleum Cajeputi artificiale, *see* Cajeput (essentiel oil), 311
Oleum calami rectific., *see* Acorus oil, 81
Oleum camphoratum 20%, *see* Camphor oil 20%, 317
Oleum cedri e fol. aether., *see* Cedar leaf oil, 371
Oleum chamomillae, *see* Matricaria oil, rich in (-)-alpha-bisabolol, 1333
Oleum Cinnamomi artificiale, *see* Cinnamon bark oil, artificial, 391
Oleum citri paradisi artificiale, *see* Citrus oils, 407
Oleum citrus bergamia, *see* Bergamot oil, 295
Oleum cucurbita semen, *see* Triglycerides, 1967
Oleum cupressi, *see* Wood oils, 2287
Oleum geranii verum, *see* Geranium oil, genuine, 691
Oleum juglandis raffinat., *see* Triglycerides, 1967
Oleum neutrale, *see* Triglycerides, medium-chain, 2119
Oleum omega-3 18/12, *see* Triglycerides, 1967
Oleum persea americana raffinatum, *see* Triglycerides, 1967
Oleum pruni armeniacae raffinatum, *see* Triglycerides, 1967
Oleum rosae (verum / artificiale), *see* Rose oil (genuine / artificial), 1763
Oleum salviae sclarea, *see* Lavender oil / Clary sage oil, 1173
Oleyl oleate (stabilised), *see* Triglycerides, 1967
Oleylis oleas, *see* Triglycerides, 1967
Olivae oleum virginale, *see* Triglycerides, 1967
Olive oil, native, *see* Triglycerides, 1967
Omega-3-fish oil, *see* Triglycerides, 1967
Oral suspension base, *see* Water and aqueous solutions, 2197
Oregano oil, 1413

Pantothenolum 50%, *see* Dexpanthenol

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

concentrate 50%, 547
Paraffin classification, 1419
Paraffin, light liquid, *see* Paraffin classification, 1419
Paraffin, liquid, *see* Paraffin classification, 1419
Paraffin, white, *see* Paraffin classification, 1419
Paraffin, yellow, *see* Paraffin classification, 1419
Paraffinum liquidum, *see* Paraffin classification, 1419
Paraffinum perliquidum, *see* Paraffin classification, 1419
Pasta Cordes®, 1603
Peanut oil, refined, *see* Triglycerides, 1967
Peppermint oil, *see* Mint oil / Peppermint oil, 1357
Permethrin 25% solution, 1615
Petroleum ether DAB, 1623
Petroleum oil, not for internal use, 1651
Phenoxyethanol, 1657
Phenoxyethanolum, *see* Phenoxyethanol, 1657
Phytomenadione, 1661
Phytomenadionum, *see* Phytomenadione, 1661
Piceae aetheroleum, *see* Spruce needle oil, 1913
Pine silvestris oil, 1665
Pine tar, 1671
Pini pumilionis aetherolum, *see* Dwarf pine oil, 589
Pini silvestris aetheroleum, *see* Pine silvestris oil, 1665
Pix liquida, *see* Pine tar, 1671
Polyaethylenglycol-8-stearat, *see* Macrogol 8 stereate type I, 1283
Polyaethylenglycolum 300, *see* Macrogols 300, 1309
Polyhexanide solution 20%, 1675
Polysorbate 20, *see* Polysorbates / Macrogol 20 glycerol monostearate type II, 1685
Polysorbate 60, *see* Polysorbates / Macrogol 20 glycerol monostearate type II, 1685
Polysorbate 80, *see* Polysorbates / Macrogol 20 glycerol monostearate type II, 1685
Polysorbates / Macrogol 20 glycerol monostearate type II, 1685
Polysorbatum 20, *see* Polysorbates / Macrogol 20 glycerol monostearate type II, 1685
Polysorbatum 60, *see* Polysorbates / Macrogol 20 glycerol monostearate type II, 1685
Polysorbatum 80, *see* Polysorbates / Macrogol 20 glycerol monostearate type II, 1685
Potash soap DAC, 1703
Potash soap Ph.Helv., 1711
Propylene glycol, 1715
Propylenglycolum, *see* Propylene glycol, 1715
Psorisol base cream Audor®, 1757
Pumpkin seed oil, pressed, *see* Triglycerides, 1967

Rapae oleum raffinatum, *see* Triglycerides, 1967
Rapeseed oil, refined, *see* Triglycerides, 1967
Raspberry syrup (conserved), *see* Syrups, 1925
Ribwort plantain syrup (conserved), *see* Syrups, 1925
Ricini oleum raffinatum, *see* Castor oil, virgin / Sorbitan- and glycerol monooleate, 345
Ricini oleum virginale, *see* Castor oil, virgin / Sorbitan- and glycerol monooleate, 345
Rose honey, *see* Honeys, 777
Rose oil (genuine / artificial), 1763
Rosemary oil, *see* Eucalyptus oil / Rosmary oil, 659
Rosmarini aetheroleum, *see* Eucalyptus oil / Rosmary oil, 659
RRR-α-Tocopherol, *see* α-Tocopherol, 2313
RRR-α-Tocopherolum, *see* α-Tocopherol, 2313

Safflower oil, refined type I, *see* Triglycerides, 1967
Sage oil, 1771
Salicylic acid 50% (paraffin), 1777
Salicylic acid concentrate 10%, white paraffin basis, 1795
Salicylic acid concentrate 5%, white paraffin basis, 1799
Salviae officinalis aetherolea, *see* Sage oil, 1771
Sapo kalinus DAC, *see* Potash soap DAC, 1703
Sapo kalinus Ph.Helv., *see* Potash soap Ph.Helv., 1711
Sesame oil, refined, *see* Triglycerides, 1967
Sesami oleum raffinatum, *see* Triglycerides, 1967
Shea butter, refined, *see* Triglycerides, 1967
Simmondsiae cera virginalis, *see* Triglycerides, 1967
Sirupus cerasi (konserviert), *see* Syrups, 1925
Sirupus ipecacuanhae, *see* Syrups, 1925
Sirupus plantaginis lanceolatae, *see* Syrups, 1925

Sirupus rubi idaei, *see* Syrups, 1925
Sirupus simplex, *see* Syrups, 1925
Skin care ointment W/L SR, *see* Hydrophilic ointments, 801
Skin care ointment W/L SR (without preservatives), *see* Hydrophilic ointments, 801
Sodium laureth sulfate solution 27%, 1803
Sodium laureth sulphate solution 27%, *see* Sodium laureth sulfate solution 27%, 1803
Sodium-(S)-lactate solution 50%, 1809
Soft ointment, 1821
Softisan® 378, *see* Softisan® 378 / Wool fat, 1843
Softisan® 378 / Wool fat, 1843
Softisan® 649, 1883
Soiae oleum raffinatum, *see* Triglycerides, 1967
Solutio natrii laurylaethersulfurici 27 %, *see* Sodium laureth sulfate solution 27%, 1803
Solutio polyhexanidi 20%, *see* Polyhexanide solution 20%, 1675
Sorbitan trioleate, 1889
Sorbitan- and glycerol monooleate, *see* Castor oil, virgin / Sorbitan- and glycerol monooleate, 345
Sorbitani trioleas, *see* Sorbitan trioleate, 1889
Sorbitol, liquid (non crystallising), *see* Syrups, 1925
Sorbitolum liquidum non cristallisabile, *see* Syrups, 1925
Soy lecithin, liquid, *see* Triglycerides, 1967
Soy oil, refined, *see* Triglycerides, 1967
Spearmint oil, 1897
Spirit of ether, 1903
Spirit soap, 1907
Spiritus aethereus, *see* Spirit of ether, 1903
Spiritus camphoratus, *see* Camphor spirit, 329
Spiritus picis lithanthracis SR, *see* Coal tar spirit SR, 435
Spiritus saponatus, *see* Spirit soap, 1907
Spruce needle oil, 1913
Squalane, 1919
Squalanum, *see* Squalane, 1919
Star anise oil, *see* Anise oil / Star aniseed oil, 103
Sugar syrup DAB, *see* Syrups, 1925
Sunflower oil, refined, *see* Triglycerides, 1967
Sweet orange oil , *see* Citrus oils, 407
Syrups, 1925

Tea tree oil, 1953
Terebinthinae aetheroleum, *see* Wood oils, 2287
Thyme oil, thymol type, 1959
Thymi typo thymolo aetheroleum, *see* Thyme oil, thymol type, 1959
Transdermal base cream, *see* Hydrophilic ointments, 801
Triglycerides, 1967
Triglycerides, medium-chain, 2119
Triglycerol diisostearate, 2165
Triglyceroli diisostearas, *see* Triglycerol diisostearate, 2165
Tritici aestivi oleum raffinatum, *see* Triglycerides, 1967
Turpentine oil, *see* Wood oils, 2287

Unguentum Acidi salicylici 10% c. Vaselinum album, *see* Salicylic acid concentrate 10%, white paraffin basis, 1795
Unguentum Acidi salicylici 5% c. Vaselinum album, *see* Salicylic acid concentrate 5%, white paraffin basis, 1799
Unguentum Alcoholum Lanae aquosum SR, *see* Wool alcohols creams, 2295
Unguentum alcoholum lanae SR, *see* Paraffin classification, 1419
Unguentum Alcoholum Lanae SR/DAC, *see* Paraffin classification, 1419
Unguentum camphoratum, *see* Camphor ointment, 323
Unguentum Cordes®, *see* Paraffin classification, 1419
Unguentum emulsificans aquosum cum propylenglycolum, *see* Hydrophilic ointments, 801
Unguentum emulsificans aquosum DAB, *see* Hydrophilic ointments, 801
Unguentum emulsificans aquosum N sine conservante SR, *see* Hydrophilic ointments, 801
Unguentum emulsificans aquosum N SR (NRF S. 26), *see* Hydrophilic ointments, 801
Unguentum emulsificans aquosum sine conservante, *see* Hydrophilic ointments, 801
Unguentum emulsificans aquosum SR (NRF S. 27), *see* Hydrophilic ointments, 801
Unguentum emulsificans DAB, *see* Paraffin classification, 1419
Unguentum emulsificans nonionicum aquosum DAB, *see* Non-ionic hydrophil ointment, 1377
Unguentum glycerini (konserviert), *see* Glycerine ointment (conserved), 703
Unguentum Lanette®, *see* Lanette® ointment (conserved), 1137
Unguentum leniens, *see* Cooling cream /

© HiperScan GmbH, *ValidationTool 2.4.3* und *ReportingTool 2.4.10*, Bericht *57-2.4-2022-05*

Cooling cream with rose oil, 449
Unguentum leniens DAB 6, *see* Cooling cream / Cooling cream with rose oil, 449
Unguentum molle, *see* Soft ointment, 1821

Vaseline, white, *see* Paraffin classification, 1419
Vaseline, yellow, *see* Paraffin classification, 1419
Vaselinum album, *see* Paraffin classification, 1419
Vaselinum album pro opthalmicum, *see* Paraffin classification, 1419
Vaselinum flavum, *see* Paraffin classification, 1419
Verbena oil, nature-identical, 2171
Vinum condurangum, *see* Wines, 2277
Vinum liquorosum, *see* Wines, 2277
Viscous base solution (NRF p. 20), 2177
Vitis viniferae oleum raffinatum, *see* Triglycerides, 1967

Walnut oil, refined, *see* Triglycerides, 1967
Water, *see* Water and aqueous solutions, 2197
Water and aqueous solutions, 2197
Wheatgerm oil, refined, *see* Triglycerides, 1967
Wines, 2277
Wolff® base half-fat cream, *see* Hydrophilic ointments, 801
Wood oils, 2287
Wool alcohol cream DAB, *see* Wool alcohols creams, 2295
Wool alcohol cream SR, *see* Wool alcohols creams, 2295
Wool alcohol ointment DAB, *see* Paraffin classification, 1419
Wool alcohol ointment SR with white paraffin, *see* Paraffin classification, 1419
Wool alcohol ointment SR/DAC, *see* Paraffin classification, 1419
Wool alcohols creams, 2295
Wool fat, *see* Softisan® 378 / Wool fat, 1843
Wormwood oil, 2307